The Little Data Book on Climate Change

From World Development Indicators

Climate
Exposure to impacts
Resilience
GHG emissions and energy use
National-level actions
Carbon markets

THE WORLD BANK
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Acknowledgments

The Little Data Book on Climate Change 2011 is based on the World Development Indicators database. Defining, gathering, and disseminating international statistics is a collective effort of many people and organizations. The indicators presented in these resources are results of decades of work at many levels, from the field workers who administer censuses and household surveys to the committees and working parties of the national and international statistical agencies that develop the nomenclature, classifications, and standards fundamental to the international statistical system. Non-governmental organizations have also made important contributions. We are indebted to many external partners as detailed in World Development Indicators 2011 who have provided substantial help, guidance, and data.

The Little Data Book on Climate Change 2011 is the result of close collaboration between the staff of the Development Data Group of the Development Economics Vice Presidency (DECDG), the Environment Department of the Sustainable Development Vice Presidency (ENV), and the Global Facility for Disaster Reduction and Recovery (GFDRR). Timothy Herzog coordinated the production of the book with substantial contributions from Philippe Ambrosi, Ana Bucher, and Fernanda Zermoglio from ENV, Milen Dyoulgerov and Ian Noble from GFDRR, and William Prince from DECDG. Additional support was provided by Azita Amjadi, Federico Escaler, Mahyar Eshragh-Tabary, Neil Fantom, Tariq Khokhar, Alison Kwong, and Sup Lee, from DECDG; Sameer Akbar, Jane Ebinger, Fernando Loayza, Elisabeth Mealey, Kiran Pandey, Kanta Kumari Rigaud, and Sari Soderstrom from ENV; Daniel Hoornweg and Marcus Lee from Financial Solutions Group; Roshin Joseph, and Ayaz Parvez from GFDRR; Richard Damania from the Latin America and the Caribbean Region (LAC); and Gabriela Elizondo Azuela from the Sustainable Energy Department (SEGEN). The book’s design is done by Jomo Tariku and is based on an original design by Communications Development Incorporated. Staff from External Affairs consisting of Stephen McGroarty, Dina Towbin, and Nora Ridolfi oversaw publication and distribution of the book. The book was prepared under supervision of Shaida Badiee, director of the Development Data Group; Mary Barton-Dock, director of Environment; and Andrew Steer, Special Envoy for Climate Change.
When President Robert Zoellick launched the World Bank’s Open Data Initiative in April 2010, he said its purpose was to “open the treasure chest of the World Bank’s data and knowledge to every village, to everyone everywhere.” This small book and the much bigger open database behind it are part of this same goal.

Solving the problem of climate change requires that our behavior changes. Whether this happens depends on our understanding, which, in turn, depends upon our knowledge of facts and their implications. Access to freely available climate and climate-related data is essential to catalyze the changes in policies, investments, and technologies that will be needed if we are to move toward a climate-smart future.

The Little Data Book on Climate Change includes a diverse set of indicators selected from the global economic and scientific communities. These indicators recognize the intrinsic relationship between climate change and development and attempt to synthesize important aspects of current and projected climate conditions, exposure to climate impacts, resilience, greenhouse gas emissions, and the current state of efforts to take action. While these indicators are from standard sources and represent professional consensus, many are subject to considerable uncertainties, and the usual care must be taken in their interpretation.

The Little Data Book on Climate Change draws upon several online resources, including the Open Data website,¹ the Climate Change Knowledge Portal,² and the Open Data for Resilience initiative.³ These resources from the World Bank and the Global Facility for Disaster Reduction and Recovery (GFDRR) provide free and open access to data and information relevant to climate risk, climate change, and development at the international, national and subnational levels. These resources contain many more indicators than are available in the limited space of this book and include interactive tools, visualizations on the use and interpretation of the data. In addition, there are other tools that will help users and programmers access World Bank data and develop applications.

We invite you to visit the online companions to the Little Data Book on Climate Change. In the coming months, we will continue to add to the datasets. We welcome suggestions on how we can improve these resources for everyone.

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Director Special Envoy for Climate Change
Development Data Group World Bank Group

¹ http://data.worldbank.org/
² http://climateknowledgeportal.worldbank.org/
³ http://www.gfdrr.org/gfdrr/opendri/
User guide

The indicators in the Little Data Book on Climate Change are organized into the following categories, each of which relates to climate change, development, and the intrinsic relationship between the two. For additional information, refer to the definitions of each indicator in the Glossary.

**Climate** includes data on current and projected future average climate conditions, particularly precipitation and temperature.

**Exposure to Impacts** includes data that suggest the degree to which a country or region may be exposed to changes in the prevailing climate and natural environment, with potential impacts on human health, food security, water supply, and physical infrastructure.

**Resilience** includes data on the capacity of human systems to cope with the impacts of climate change, such as economic capacity, institutional capacity, and extent of public infrastructure.

**GHG Emissions and Energy Use** includes data on the emissions of greenhouse gases (GHG), energy use, including measures of energy efficiency and carbon intensity of economy.

**National-Level Actions** includes data that summarize actions being taken to address and respond to climate change at the national and international levels. Additional information is included in the “Summary of National Actions” tables in the appendices.

**Carbon Markets** includes data that summarize project activities under Joint Implementation and the Clean Development Mechanism, two of the flexibility mechanisms set forth under the Kyoto Protocol.

The data in this book are for the most recent year available. Regional aggregates include data for low- and middle-income economies only. No aggregate is calculated if missing data exceed specific thresholds by indicator. See Statistical methods in World Development Indicators 2011 for more information.

Symbols used:

- 0 or 0.0 indicates zero or small enough that the number rounds to zero at the displayed number of decimal places.
- .. indicates that data are not available.
- n/a or blank indicates not applicable, or for an aggregate, not analytically meaningful.
- $ indicates current U.S. dollars.

Data are shown for economies with populations greater than 30,000 or for smaller economies if they are members of the World Bank. This publication also includes three additional economies: Cook Islands, Nauru, and Niue. The word country (used interchangeably with economy) does not imply political independence or official recognition by the World Bank but refers to any economy for which the authorities report separate social or economic statistics.

The cutoff date for data was October 21, 2011.
The country composition of regions is based on the World Bank’s analytical regions and may differ from common geographic usage.

East Asia and Pacific
American Samoa, Cambodia, China, Cook Islands, Fiji, Indonesia, Kiribati, Democratic Republic of Korea, Lao People’s Democratic Republic, Malaysia, Marshall Islands, Federated States of Micronesia, Mongolia, Myanmar, Nauru, Niue, Palau, Papua New Guinea, Philippines, Samoa, Solomon Islands, Thailand, Timor-Leste, Tonga, Tuvalu, Vanuatu, Vietnam.

Europe and Central Asia
Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Georgia, Kazakhstan, Kosovo, Kyrgyz Republic, Latvia, Lithuania, Former Yugoslav Republic of Macedonia, Moldova, Montenegro, Romania, Russian Federation, Serbia, Tajikistan, Turkey, Turkmenistan, Ukraine, Uzbekistan.

Latin America and the Caribbean
Antigua and Barbuda, Argentina, Belize, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Uruguay, República Bolivariana de Venezuela.

Middle East and North Africa
Algeria, Djibouti, Arab Republic of Egypt, Islamic Republic of Iran, Iraq, Jordan, Lebanon, Libya, Morocco, Syrian Arab Republic, Tunisia, West Bank and Gaza, Republic of Yemen.

South Asia
Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, Sri Lanka.

Sub-Saharan Africa
Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Democratic Republic of Congo, Republic of Congo, Côte d’Ivoire, Eritrea, Ethiopia, Gabon, The Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mayotte, Mozambique, Namibia, Niger, Nigeria, Rwanda, São Tomé and Príncipe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, Zimbabwe.
## World

| Population (millions) | 6,840.5 | GDP ($ billions) | 63,044.1 |
|------------------------|---------|-----------------|-----------|
| Pop. growth (avg. ann. %, 1990–2010) | 1.3 | GNI per capita (Atlas $) | 9,116 |

### Climate
- Average daily min/max temperature (1961–90, Celsius)
- Projected annual temperature change (2045–65, Celsius)
- Average annual precipitation (1961–90, mm)
- Projected annual precipitation change (2045–65, mm)
- Projected change in annual hot days/warm nights
- Projected change in annual cool days/cold nights

### Exposure to Impacts

| Land area below 5m (% of land area) | 1.8 |
| Population below 5m (% of total) | 6.6 |
| Population in urban agglomerations > 1 million (%) | 20 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.1 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 8.8 |
| Annual freshwater withdrawals (% of internal resources) | .. |
| Agricultural land under irrigation (% of total ag. land) | .. |
| Population living below $1.25 a day (% of total) | 12.5 |
| Nationally terrestrial protected areas (% of total land area) | 58 |
| Under-five mortality rate (per 1,000) | 21.4 |
| Child malnutrition, underweight (% of under age five) | 4,601 |

### Resilience

| Access to improved sanitation (% of total pop.) | 61 |
| Access to improved water source (% of total pop.) | 87 |
| Cereal yield (kg. per hectare) | 3,566 |
| Access to electricity (% of total population) | 74.1 |
| Paved roads (% of total roads) | 49.1 |
| Health workers (per 1,000 people) | 4.4 |
| Foreign direct investment, net inflows (% of GDP) | 2.1 |
| Invest. in infrastructure w/private participation ($ millions) | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. |
| Ease of doing business (ranking 1–183; 1 = best) | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. |
| Primary completion rate, total (% of relevant age group) | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 96 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 4.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 485.4 |
| CO₂ emissions, total (MtCO₂) | 30,649 |
| GHG net emissions/removals by LUCF (MtCO₂e) | 7,136 |
| Methane (CH₄) emissions, total (MtCO₂e) | 2,853 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 724 |
| Other GHG emissions, total (MtCO₂e) | 1,803 |
| Energy use per capita (kilograms of oil equivalent) | 182.9 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 182.9 |

### National-Level Actions

- Latest UNFCCC national communication
- Annex-I emissions reduction target
- NAMA submission
- NAPA submission
- Renewable energy target

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects
- Issued Certified Emission Reductions (CERs) from CDM (thousands)
- Hosted Joint Implementation (JI) projects
- Issued Emission Reduction Units (ERUs) from JI (thousands)
## East Asia & Pacific

| Population (millions) | 1,961.6 | GDP ($ billions) | 7,579.4 |
|-----------------------|---------|-----------------|---------|
| Pop. growth (avg. ann. %, 1990-2010) | 1.0 | GNI per capita (Atlas $) | 3,683 |

### Climate
- Average daily min/max temperature (1961-90, Celsius)
- Projected annual temperature change (2045-65, Celsius)
- Average annual precipitation (1961-90, mm)
- Projected annual precipitation change (2045-65, mm)
- Projected change in annual hot days/warm nights
- Projected change in annual cool days/cold nights

### Exposure to Impacts

| Parameter | Value |
|-----------|-------|
| Land area below 5m (% of land area) | 2.5 |
| Population below 5m (% of total) | 10.3 |
| Population in urban agglomerations > 1 million (%) | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 3.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. |
| Annual freshwater withdrawals (% of internal resources) | 10.8 |
| Agricultural land under irrigation (% of total ag. land) | .. |
| Population living below $1.25 a day (% of total) | 16.8 |
| Nationally terrestrial protected areas (% of total land area) | 14.9 |
| Under-five mortality rate (per 1,000) | 24 |
| Child malnutrition, underweight (% of under age five) | 9.0 |
| Malaria incidence rate (per 100,000 people) | 525 |

### Resilience

| Parameter | Value |
|-----------|-------|
| Access to improved sanitation (% of total pop.) | 59 |
| Access to improved water source (% of total pop.) | 88 |
| Cereal yield (kg. per hectare) | 4,860 |
| Access to electricity (% of total population) | 90.8 |
| Paved roads (% of total roads) | 15.9 |
| Health workers (per 1,000 people) | 2.8 |
| Foreign direct investment, net inflows (% of GDP) | 3.0 |
| Invest. in infrastructure w/private participation ($ millions) | 14,638 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. |
| Ease of doing business (ranking 1-183; 1 = best) | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. |
| Primary completion rate, total (% of relevant age group) | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 103 |

### GHG Emissions and Energy Use

| Parameter | Value |
|-----------|-------|
| CO₂ emissions per capita (metric tons) | 4.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 827.1 |
| CO₂ emissions, total (MtCO₂) | 8,259 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 1,928 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 707 |
| Other GHG emissions, total (MtCO₂e) | .. |
| Energy use per capita (kilograms of oil equivalent) | 1,436 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 259.5 |

### National-Level Actions
- Latest UNFCCC national communication
- Annex-I emissions reduction target
- NAMA submission
- NAPA submission
- Renewable energy target

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects
- Issued Certified Emission Reductions (CERs) from CDM (thousands)
- Hosted Joint Implementation (JI) projects
- Issued Emission Reduction Units (ERUs) from JI (thousands)
### Exposure to Impacts

| Metric                                                                 | Value   |
|------------------------------------------------------------------------|---------|
| Land area below 5m (% of land area)                                    | 2.5     |
| Population below 5m (% of total)                                       | 3.0     |
| Population in urban agglomerations > 1 million (%)                     | 18      |
| Urban pop. growth (avg. annual %, 1990-2010)                          | 0.3     |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009)               | ..      |
| Annual freshwater withdrawals (% of internal resources)                | 6.5     |
| Agricultural land under irrigation (% of total ag. land)               | ..      |
| Population living below $1.25 a day (% of total)                       | 3.7     |
| Nationally terrestrial protected areas (% of total land area)          | 7.5     |
| Under-five mortality rate (per 1,000)                                  | 23      |
| Child malnutrition, underweight (% of under age five)                  | ..      |
| Malaria incidence rate (per 100,000 people)                           | ..      |

### Resilience

| Metric                                                                 | Value   |
|------------------------------------------------------------------------|---------|
| Access to improved sanitation (% of total pop.)                        | 89      |
| Access to improved water source (% of total pop.)                      | 95      |
| Cereal yield (kg. per hectare)                                         | 2,475   |
| Access to electricity (% of total population)                          | ..      |
| Paved roads (% of total roads)                                         | 85.8    |
| Health workers (per 1,000 people)                                     | 9.9     |
| Foreign direct investment, net inflows (% of GDP)                      | 2.8     |
| Invest. in infrastructure w/private participation ($ millions)         | 22,652  |
| Disaster risk reduction progress score (1-5 scale; 5 = best)           |         |
| Ease of doing business (ranking 1-183; 1 = best)                      |         |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best)           |         |
| Primary completion rate, total (% of relevant age group)              | 95      |
| Ratio of girls to boys in primary & secondary school (%)               | 97      |

### GHG Emissions and Energy Use

| Metric                                                                 | Value   |
|------------------------------------------------------------------------|---------|
| CO₂ emissions per capita (metric tons)                                 | 7.7     |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)               | 708.0   |
| CO₂ emissions, total (MtCO₂)                                           | 3,110   |
| GHG net emissions/removals by LUCF (MtCO₂e)                            | 937     |
| Methane (CH₄) emissions, total (MtCO₂e)                                 | 214     |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e)                          | 76      |
| Energy use per capita (kilograms of oil equivalent)                    | 2,833   |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)           | 276.8   |

### National-Level Actions

| Action                                                                 | Details                                      |
|------------------------------------------------------------------------|----------------------------------------------|
| Latest UNFCCC national communication                                   |                                              |
| Annex-I emissions reduction target                                     |                                              |
| NAMA submission                                                         |                                              |
| NAPA submission                                                         |                                              |
| Renewable energy target                                                 |                                              |

### Carbon Markets

| Type of Market                                                        | Details                                      |
|----------------------------------------------------------------------|----------------------------------------------|
| Hosted Clean Development Mechanism (CDM) projects                    |                                              |
| Issued Certified Emission Reductions (CERs) from CDM (thousands)      |                                              |
| Hosted Joint Implementation (JI) projects                            |                                              |
| Issued Emission Reduction Units (ERUs) from JI (thousands)            |                                              |
Latin America & Caribbean

Population (millions) 582.6  GDP ($ billions) 4,969.4  
Pop. growth (avg. ann. %, 1990-2010) 1.4  GNI per capita (Atlas $) 7,741

Climate
Average daily min/max temperature (1961-90, Celsius)
Projected annual temperature change (2045-65, Celsius)
Average annual precipitation (1961-90, mm)
Projected annual precipitation change (2045-65, mm)
Projected change in annual hot days/warm nights
Projected change in annual cool days/cold nights

Exposure to Impacts
Land area below 5m (% of land area) 1.5  
Population below 5m (% of total) 3.8  
Population in urban agglomerations > 1 million (%) 35  
Urban pop. growth (avg. annual %, 1990-2010) 2.0  
Droughts, floods, extreme temps (% pop. avg., 1990-2009) 2.0  
Annual freshwater withdrawals (% of internal resources) 1.0  
Agricultural land under irrigation (% of total ag. land) ..
Population living below $1.25 a day (% of total) 8.1  
Nationally terrestrial protected areas (% of total land area) 20.8  
Under-five mortality rate (per 1,000) 23  
Child malnutrition, underweight (% of under age five) 3.8  
Malaria incidence rate (per 100,000 people) 206

Resilience
Access to improved sanitation (% of total pop,) 79  
Access to improved water source (% of total pop.) 93  
Cereal yield (kg. per hectare) 3,337  
Access to electricity (% of total population) 93.4  
Paved roads (% of total roads) 28.1  
Health workers (per 1,000 people) 6.9  
Foreign direct investment, net inflows (% of GDP) 2.3  
Invest. in infrastructure w/private participation ($ millions) 33,064  
Disaster risk reduction progress score (1-5 scale; 5 = best)  
Ease of doing business (ranking 1-183; 1 = best)  
Public sector mgmt & institutions avg. (1-6 scale; 6 = best)  
Primary completion rate, total (% of relevant age group) 102  
Ratio of girls to boys in primary & secondary school (%) 102

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 2.8  
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 285.6  
CO₂ emissions, total (MtCO₂) 1,584  
GHG net emissions/removals by LUCF (MtCO₂e)  
Methane (CH₄) emissions, total (MtCO₂e) 1,009  
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 442  
Other GHG emissions, total (MtCO₂e) 21  
Energy use per capita (kilograms of oil equivalent) 1,245  
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 130.6

National-Level Actions
Latest UNFCCC national communication  
Annex-I emissions reduction target  
NAMA submission  
NAPA submission  
Renewable energy target

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects  
Issued Certified Emission Reductions (CERs) from CDM (thousands)  
Hosted Joint Implementation (JI) projects  
Issued Emission Reduction Units (ERUs) from JI (thousands)
Middle East & North Africa

| Population (millions) | 331.3 | GDP ($ billions) | 1,068.5 |
|-----------------------|-------|-----------------|---------|
| Pop. growth (ann. %, 1990–2010) | 1.9 | GNI per capita (Atlas $) | 3,903 |

**Climate**
- Average daily min/max temperature (1961–90, Celsius)
- Projected annual temperature change (2045–65, Celsius)
- Average annual precipitation (1961–90, mm)
- Projected annual precipitation change (2045–65, mm)
- Projected change in annual hot days/warm nights
- Projected change in annual cool days/cold nights

**Exposure to Impacts**
- Land area below 5m (% of land area) 1.4
- Population below 5m (% of total) 9.7
- Population in urban agglomerations > 1 million (%) 20
- Urban pop. growth (ann. %, 1990–2010) 2.5
- Droughts, floods, extreme temps (% pop. avg., 1990–2009) ..
- Annual freshwater withdrawals (% of internal resources) 121.9
- Agricultural land under irrigation (% of total ag. land) ..
- Population living below $1.25 a day (% of total) 3.6
- Nationally terrestrial protected areas (% of total land area) 4.0
- Under-five mortality rate (per 1,000) 34
- Child malnutrition, underweight (% of under age five) 6.8
- Malaria incidence rate (per 100,000 people) ..

**Resilience**
- Access to improved sanitation (% of total pop.) 84
- Access to improved water source (% of total pop.) 87
- Cereal yield (kg. per hectare) 2,512
- Access to electricity (% of total population) 92.9
- Paved roads (% of total roads) 74.3
- Health workers (per 1,000 people) 3.6
- Foreign direct investment, net inflows (% of GDP) 2.9
- Invest. in infrastructure w/private participation ($ millions) 5,854
- Disaster risk reduction progress score (1–5 scale; 5 = best) ..
- Ease of doing business (ranking 1–183; 1 = best) ..
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) ..
- Primary completion rate, total (% of relevant age group) 88
- Ratio of girls to boys in primary & secondary school (%) 93

**GHG Emissions and Energy Use**
- CO₂ emissions per capita (metric tons) 3.8
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 604.6
- CO₂ emissions, total (MtCO₂) 1,230
- GHG net emissions/removals by LUCF (MtCO₂e) ..
- Methane (CH₄) emissions, total (MtCO₂e) 287
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) 74
- Other GHG emissions, total (MtCO₂e) 7
- Energy use per capita (kilograms of oil equivalent) 1,399
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 213.9

**National-Level Actions**
- Latest UNFCCC national communication ..
- Annex-I emissions reduction target ..
- NAMA submission ..
- NAPA submission ..
- Renewable energy target ..

**Carbon Markets**
- Hosted Clean Development Mechanism (CDM) projects ..
- Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
- Hosted Joint Implementation (JI) projects ..
- Issued Emission Reduction Units (ERUs) from JI (thousands) ..
South Asia

Population (millions) 1,579.5 GDP ($ billions) 2,088.2
Pop. growth (avg. ann. %, 1990-2010) 1.7 GNI per capita (Atlas $) 1,222

Climate
Average daily min/max temperature (1961-90, Celsius)
Projected annual temperature change (2045-65, Celsius)
Average annual precipitation (1961-90, mm)
Projected annual precipitation change (2045-65, mm)
Projected change in annual hot days/warm nights
Projected change in annual cool days/cold nights

Exposure to Impacts
Land area below 5m (% of land area) 1.5
Population below 5m (% of total) 4.4
Population in urban agglomerations > 1 million (%) 13
Urban pop. growth (avg. annual %, 1990-2010) 2.7
Droughts, floods, extreme temps (% pop. avg., 1990-2009) 50.6
Annual freshwater withdrawals (% of internal resources) ..
Agricultural land under irrigation (% of total ag. land) 40.3
Population living below $1.25 a day (% of total) 6.1
Nationally terrestrial protected areas (% of total land area) 67
Under-five mortality rate (per 1,000) 42.5
Child malnutrition, underweight (% of under age five) 1,127
Malaria incidence rate (per 100,000 people)

Resilience
Access to improved sanitation (% of total pop.) 36
Access to improved water source (% of total pop.) 87
Cereal yield (kg. per hectare) 2,728
Access to electricity (% of total population) 62.1
Paved roads (% of total roads) 58.9
Health workers (per 1,000 people) 1.7
Foreign direct investment, net inflows (% of GDP) 1.3
Invest. in infrastructure w/private participation ($ millions) 73,548
Disaster risk reduction progress score (1-5 scale; 5 = best)
Ease of doing business (ranking 1-183; 1 = best)
Public sector mgmt & institutions avg. (1-6 scale; 6 = best)
Primary completion rate, total (% of relevant age group) 86
Ratio of girls to boys in primary & secondary school (%) 92

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 1.3
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 504.6
CO₂ emissions, total (MtCO₂) 1,970
GHG net emissions/removals by LUCF (MtCO₂e) 846
Methane (CH₄) emissions, total (MtCO₂e) 268
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 9
Other GHG emissions, total (MtCO₂e) 532
Energy use per capita (kilograms of oil equivalent) 193.5
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)

National-Level Actions
Latest UNFCCC national communication
Annex-I emissions reduction target
NAMA submission
NAPA submission
Renewable energy target

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects
Issued Certified Emission Reductions (CERs) from CDM (thousands)
Hosted Joint Implementation (JI) projects
Issued Emission Reduction Units (ERUs) from JI (thousands)
Sub-Saharan Africa

| Population (millions) | 853.6 | GDP ($ billions) | 1,097.9 |
|-----------------------|-------|-----------------|---------|
| Pop. growth (avg. ann. %, 1990–2010) | 2.6 | GNI per capita (Atlas $) | 1,176 |

Climate
- Average daily min/max temperature (1961–90, Celsius)
- Projected annual temperature change (2045–65, Celsius)
- Average annual precipitation (1961–90, mm)
- Projected annual precipitation change (2045–65, mm)
- Projected change in annual hot days/warm nights
- Projected change in annual cool days/cold nights

Exposure to Impacts
- Land area below 5m (% of land area)
- Population below 5m (% of total)
- Population in urban agglomerations > 1 million (%)
- Urban pop. growth (avg. annual %, 1990–2010)
- Droughts, floods, extreme temps (% pop. avg., 1990–2009)
- Annual freshwater withdrawals (% of internal resources)
- Agricultural land under irrigation (% of total ag. land)
- Population living below $1.25 a day (% of total)
- Nationally terrestrial protected areas (% of total land area)
- Under-five mortality rate (per 1,000)
- Child malnutrition, underweight (% of under age five)
- Malaria incidence rate (per 100,000 people)

Resilience
- Access to improved sanitation (% of total pop.)
- Access to improved water source (% of total pop.)
- Cereal yield (kg. per hectare)
- Access to electricity (% of total population)
- Paved roads (% of total roads)
- Health workers (per 1,000 people)
- Foreign direct investment, net inflows (% of GDP)
- Invest. in infrastructure w/private participation ($ millions)
- Disaster risk reduction progress score (1–5 scale; 5 = best)
- Ease of doing business (ranking 1–183; 1 = best)
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best)
- Primary completion rate, total (% of relevant age group)
- Ratio of girls to boys in primary & secondary school (%)

GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons)
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)
- CO₂ emissions, total (MtCO₂)
- GHG net emissions/removals by LUCF (MtCO₂e)
- Methane (CH₄) emissions, total (MtCO₂e)
- Nitrous oxide (N₂O) emissions, total (MtCO₂e)
- Other GHG emissions, total (MtCO₂e)
- Energy use per capita (kilograms of oil equivalent)
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)

National-Level Actions
- Latest UNFCCC national communication
- Annex-I emissions reduction target
- NAMA submission
- NAPA submission
- Renewable energy target

Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects
- Issued Certified Emission Reductions (CERs) from CDM (thousands)
- Hosted Joint Implementation (JI) projects
- Issued Emission Reduction Units (ERUs) from JI (thousands)
For operational and analytical purposes, the World Bank’s main criterion for classifying economies is gross national income (GNI) per capita. Each economy in The Little Data Book on Climate Change is classified as low income, middle income, or high income. Low- and middle-income economies are sometimes referred to as developing economies. The use of the term is convenient; it is not intended to imply that all economies in the group are experiencing similar development or that other economies have reached a preferred or final stage of development. Classification by income does not necessarily reflect development status.

Note: Classifications are fixed during the World Bank’s fiscal year (ending on June 30). Thus, countries remain in the categories in which they are classified irrespective of any revisions to their per capita income data.

Low-income economies are those with a 2010 GNI per capita of $1,005 or less.

Middle-income economies are those with a 2010 GNI per capita of more than $1,006 but less than $12,276. Lower-middle-income and upper-middle-income economies are separated at a 2010 GNI per capita of $3,975.

High-income economies are those with a GNI per capita of $12,276 or more.

Euro area includes the member states of the Economic and Monetary Union of the European Union that have adopted the euro as their currency: Austria, Belgium, Cyprus, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Malta, Netherlands, Portugal, Slovak Republic, Slovenia, and Spain.

Small island developing states included in this publication are American Samoa, Antigua and Barbuda, Aruba, The Bahamas, Barbados, Belize, Cape Verde, Comoros, Cook Islands, Cuba, Dominica, Dominican Republic, Fiji, French Polynesia, Grenada, Guam, Guinea-Bissau, Guyana, Haiti, Jamaica, Kiribati, Maldives, Marshall Islands, Mauritius, Federated States of Micronesia, Nauru, New Caledonia, Niue, Northern Mariana Islands, Palau, Papua New Guinea, Puerto Rico, Samoa, São Tomé and Príncipe, Seychelles, Singapore, Solomon Islands, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Timor-Leste, Tonga, Trinidad and Tobago, Tuvalu, Vanuatu, and Virgin Islands (U.S.).
Low income

Population (millions) 796.3  GDP ($ billions) 413.9
Pop. growth (avg. ann. %, 1990–2010) 2.3  GNI per capita (Atlas $) 523

Climate
Average daily min/max temperature (1961–90, Celsius)
Projected annual temperature change (2045–65, Celsius)
Average annual precipitation (1961–90, mm)
Projected annual precipitation change (2045–65, mm)
Projected change in annual hot days/warm nights
Projected change in annual cool days/cold nights

Exposure to Impacts
Land area below 5m (% of land area) 0.7
Population below 5m (% of total) 5.1
Population in urban agglomerations > 1 million (%) 11
Urban pop. growth (avg. annual %, 1990–2010) 3.7
Droughts, floods, extreme temps (% pop. avg., 1990–2009) 3.7
Annual freshwater withdrawals (% of internal resources) ..
Agricultural land under irrigation (% of total ag. land) ..
Population living below $1.25 a day (% of total) 10.6
Nationally terrestrial protected areas (% of total land area) 108
Under-five mortality rate (per 1,000) 28.3
Malaria incidence rate (per 100,000 people) 16,659

Resilience
Access to improved sanitation (% of total pop.) 35
Access to improved water source (% of total pop.) 63
Cereal yield (kg. per hectare) 2,047
Access to electricity (% of total population) 23.0
Paved roads (% of total roads) 14.1
Health workers (per 1,000 people) 0.7
Foreign direct investment, net inflows (% of GDP) 3.2
Invest. in infrastructure w/private participation ($ millions) 4,471
Disaster risk reduction progress score (1–5 scale; 5 = best)
Ease of doing business (ranking 1–183; 1 = best)
Public sector mgmt & institutions avg. (1–6 scale; 6 = best)
Primary completion rate, total (% of relevant age group) 65
Ratio of girls to boys in primary & secondary school (%) 91

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 0.3
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 270.2
CO₂ emissions, total (MtCO₂) 219
GHG net emissions/removals by LUCF (MtCO₂e) 436
Methane (CH₄) emissions, total (MtCO₂e) 209
Nitrous oxide (N₂O) emissions, total (MtCO₂e) ..
Other GHG emissions, total (MtCO₂e) 365
Energy use per capita (kilograms of oil equivalent) 303.9
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)

National-Level Actions
Latest UNFCCC national communication
Annex-I emissions reduction target
NAMA submission
NAPA submission
Renewable energy target

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects
Issued Certified Emission Reductions (CERs) from CDM (thousands)
Hosted Joint Implementation (JI) projects
Issued Emission Reduction Units (ERUs) from JI (thousands)
Middle income

Population (millions) 4,917.2 GDP ($ billions) 19,561.7
GDP pop. growth (avg. ann. %, 1990-2010) 1.3 GNI per capita (Atlas $) 3,763

Climate
Average daily min/max temperature (1961-90, Celsius)
Projected annual temperature change (2045-65, Celsius)
Average annual precipitation (1961-90, mm)
Projected annual precipitation change (2045-65, mm)
Projected change in annual hot days/warm nights
Projected change in annual cool days/cold nights

Exposure to Impacts
Land area below 5m (% of land area) 1.8
Population below 5m (% of total) 6.5
Population in urban agglomerations > 1 million (%) 18
Urban pop. growth (avg. annual %, 1990-2010) 2.5
Droughts, floods, extreme temps (% pop. avg., 1990-2009) 9.1
Annual freshwater withdrawals (% of internal resources) ..
Agricultural land under irrigation (% of total ag. land) ..
Population living below $1.25 a day (% of total) 12.5
Nationally terrestrial protected areas (% of total land area) 20.9
Under-five mortality rate (per 1,000) 2,574
Under-five mortality rate (per 1,000) 51
Child malnutrition, underweight (% of under age five) 9.1
Malaria incidence rate (per 100,000 people) 88

Resilience
Access to improved sanitation (% of total pop.) 56
Access to improved water source (% of total pop.) 88
Cereal yield (kg, per hectare) 3,256
Access to electricity (% of total population) 81.6
Paved roads (% of total roads) 45.0
Health workers (per 1,000 people) 3.5
Foreign direct investment, net inflows (% of GDP) 2.6
Invest. in infrastructure w/private participation ($ millions) 138,442
Disaster risk reduction progress score (1-5 scale; 5 = best) ..
Ease of doing business (ranking 1-183; 1 = best) ..
Public sector mgmt & institutions avg. (1-6 scale; 6 = best) ..
Primary completion rate, total (% of relevant age group) 92
Ratio of girls to boys in primary & secondary school (%) 97

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 3.5
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 622.9
CO₂ emissions, total (MtCO₂) 16,604
GHG net emissions/removals by LUCF (MtCO₂e) ..
Methane (CH₄) emissions, total (MtCO₂e) 5,160
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 1,830
Other GHG emissions, total (MtCO₂e) 261
Energy use per capita (kilograms of oil equivalent) 1,268
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 224.6

National-Level Actions
Latest UNFCCC national communication ..
Annex-I emissions reduction target ..
NAMA submission ..
NAPA submission ..
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects ..
Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
Hosted Joint Implementation (JI) projects ..
Issued Emission Reduction Units (ERUs) from JI (thousands) ..

The Little Data Book on Climate Change 2011
## Lower middle income

| Population (millions) | 2,465.1 | GDP ($ billions) | 4,312.0 | GNI per capita (Atlas $) | 1,660 |
|-----------------------|---------|-----------------|---------|--------------------------|-------|
| Pop. growth (avg. ann. %, 1990–2010) | 1.7 | | | | |

### Climate
- Average daily min/max temperature (1961–90, Celsius)
- Projected annual temperature change (2045–65, Celsius)
- Average annual precipitation (1961–90, mm)
- Projected annual precipitation change (2045–65, mm)
- Projected change in annual hot days/warm nights
- Projected change in annual cool days/cold nights

### Exposure to Impacts

| Land area below 5m (% of land area) | 1.7 |
| Population below 5m (% of total) | 6.5 |
| Population in urban agglomerations > 1 million (%) | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. |
| Annual freshwater withdrawals (% of internal resources) | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. |
| Population living below $1.25 a day (% of total) | 9.5 |
| Nationally terrestrial protected areas (% of total land area) | 69 |
| Under-five mortality rate (per 1,000) | 31.7 |
| Child malnutrition, underweight (% of under age five) | 4,874 |

### Resilience

| Access to improved sanitation (% of total pop.) | 45 |
| Access to improved water source (% of total pop.) | 84 |
| Cereal yield (kg. per hectare) | 2,754 |
| Access to electricity (% of total population) | 67.3 |
| Paved roads (% of total roads) | 29.3 |
| Health workers (per 1,000 people) | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 81,789 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 5 |
| Ease of doing business (ranking 1–183; 1 = best) | 45 |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 93 |
| Primary completion rate, total (% of relevant age group) | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 93 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 523.9 |
| CO₂ emissions, total (MtCO₂) | 3,744 |
| GHG net emissions/removals by LUCF (MtCO₂e) | 1,705 |
| Methane (CH₄) emissions, total (MtCO₂e) | 687 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 17 |
| Other GHG emissions, total (MtCO₂e) | 680 |
| Energy use per capita (kilograms of oil equivalent) | 217.9 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 217.9 |

### National-Level Actions

| Latest UNFCCC national communication |  |
| Annex-I emissions reduction target |  |
| NAMA submission |  |
| NAPA submission |  |
| Renewable energy target |  |

### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects |  |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) |  |
| Hosted Joint Implementation (JI) projects |  |
| Issued Emission Reduction Units (ERUs) from JI (thousands) |  |
Upper middle income

| Population (millions) | 2,452.2 | GDP ($ billions) | 15,246.7 |
|-----------------------|--------|-----------------|----------|
| Pop. growth (avg. ann. %, 1990–2010) | 0.9 | GNI per capita (Atlas $) | 5,876 |

**Climate**
- Average daily min/max temperature (1961–90, Celsius)
- Projected annual temperature change (2045–65, Celsius)
- Average annual precipitation (1961–90, mm)
- Projected annual precipitation change (2045–65, mm)
- Projected change in annual hot days/warm nights
- Projected change in annual cool days/cold nights

**Exposure to Impacts**

| Land area below 5m (% of land area) | 1.8 |
| Population below 5m (% of total) | 6.5 |
| Population in urban agglomerations > 1 million (%) | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. |
| Annual freshwater withdrawals (% of internal resources) | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. |
| Population living below $1.25 a day (% of total) | 13.6 |
| Nationally terrestrial protected areas (% of total land area) | 20 |
| Child under-five mortality rate (per 1,000) | 4.1 |
| Under-five malnutrition, underweight (% of under age five) | .. |
| Malnutrition incidence rate (per 100,000 people) | 80 |

**Resilience**

| Access to improved sanitation (% of total pop.) | 68 |
| Access to improved water source (% of total pop.) | 92 |
| Cereal yield (kg, per hectare) | 3,690 |
| Access to electricity (% of total population) | 98.0 |
| Paved roads (% of total roads) | 50.5 |
| Health workers (per 1,000 people) | 4.5 |
| Foreign direct investment, net inflows (% of GDP) | 2.7 |
| Invest. in infrastructure w/private participation ($ millions) | 26,166 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. |
| Ease of doing business (ranking 1–183; 1 = best) | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. |
| Primary completion rate, total (% of relevant age group) | 98 |
| Ratio of girls to boys in primary & secondary school (%) | 103 |

**GHG Emissions and Energy Use**

| CO₂ emissions per capita (metric tons) | 5.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 659.4 |
| CO₂ emissions, total (MtCO₂) | 12,860 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 3,455 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 1,144 |
| Other GHG emissions, total (MtCO₂e) | 243 |
| Energy use per capita (kilograms of oil equivalent) | 1,848 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 227.1 |

**National-Level Actions**

- Latest UNFCCC national communication
- Annex-I emissions reduction target
- NAMA submission
- NAPA submission
- Renewable energy target

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects
- Issued Certified Emission Reductions (CERs) from CDM (thousands)
- Hosted Joint Implementation (JI) projects
- Issued Emission Reduction Units (ERUs) from JI (thousands)
Low and middle income

| Population (millions) | 5,713.5 |
|-----------------------|---------|
| GDP ($ billions)      | 19,997.4 |

| Pop. growth (avg. ann. %, 1990–2010) | 1.4 |
| GNI per capita (Atlas $) | 3,315 |

**Climate**

- Average daily min/max temperature (1961–90, Celsius)
- Projected annual temperature change (2045–65, Celsius)
- Average annual precipitation (1961–90, mm)
- Projected annual precipitation change (2045–65, mm)
- Projected change in annual hot days/warm nights
- Projected change in annual cool days/cold nights

**Exposure to Impacts**

| Land area below 5m (% of land area) | 1.6 |
| Population below 5m (% of total) | 6.3 |
| Population in urban agglomerations > 1 million (%) | 17 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.6 |
| Droughts, floods, extreme temps (% popul. avg., 1990–2009) | 8.4 |
| Annual freshwater withdrawals (% of internal resources) | .. |
| Agricultural land under irrigation (% of total ag. land) | 25.2 |
| Population living below $1.25 a day (% of total) | 12.2 |
| Nationally terrestrial protected areas (% of total land area) | 63 |
| Under-five mortality rate (per 1,000) | 22.5 |
| Child malnutrition, underweight (% of under age five) | 4,665 |

**Resilience**

| Access to improved sanitation (% of total popul.) | 54 |
| Access to improved water source (% of total popul.) | 84 |
| Cereal yield (kg. per hectare) | 3,065 |
| Access to electricity (% of total population) | 73.7 |
| Paved roads (% of total roads) | 29.3 |
| Health workers (per 1,000 people) | 3.1 |
| Foreign direct investment, net inflows (% of GDP) | 2.7 |
| Invest. in infrastructure w/private participation ($ millions) | 144,800 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. |
| Ease of doing business (ranking 1–183; 1 = best) | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 87 |
| Primary completion rate, total (% of relevant age group) | 96 |
| Ratio of girls to boys in primary & secondary school (%) | .. |

**GHG Emissions and Energy Use**

| CO₂ emissions per capita (metric tons) | 3.0 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 612.5 |
| CO₂ emissions, total (MtCO₂) | 16,822 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 5,597 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 2,040 |
| Other GHG emissions, total (MtCO₂e) | 264 |
| Energy use per capita (kilograms of oil equivalent) | 1,173 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 226.1 |

**National-Level Actions**

- Latest UNFCCC national communication
- Annex-I emissions reduction target
- NAMA submission
- NAPA submission
- Renewable energy target

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects
- Issued Certified Emission Reductions (CERs) from CDM (thousands)
- Hosted Joint Implementation (JI) projects
- Issued Emission Reduction Units (ERUs) from JI (thousands)
High income

Population (millions) 1,127.0 GDP ($ billions) 43,019.0
Pop. growth (avg. ann. %, 1990-2010) 0.7 GNI per capita (Atlas $) 38,517

Climate
Average daily min/max temperature (1961-90, Celsius)
Projected annual temperature change (2045-65, Celsius)
Average annual precipitation (1961-90, mm)
Projected annual precipitation change (2045-65, mm)
Projected change in annual hot days/warm nights
Projected change in annual cool days/cold nights

Exposure to Impacts
Land area below 5m (% of land area) 2.2
Population below 5m (% of total) 7.7
Population in urban agglomerations > 1 million (%) ..
Urban pop. growth (avg. annual %, 1990-2010) 1.0
Droughts, floods, extreme temps (% pop. avg., 1990-2009)..
Annual freshwater withdrawals (% of internal resources) 10.4
Agricultural land under irrigation (% of total ag. land) ..
Population living below $1.25 a day (% of total) ..
Nationally terrestrial protected areas (% of total land area) 13.4
Under-five mortality rate (per 1,000) 6
Child malnutrition, underweight (% of under age five) ..
Malaria incidence rate (per 100,000 people) ..

Resilience
Access to improved sanitation (% of total pop.) 100
Access to improved water source (% of total pop.) 100
Cereal yield (kg, per hectare) 5,445
Health workers (per 1,000 people) 10.7
Foreign direct investment, net inflows (% of GDP) 1.8
Invest. in infrastructure w/private participation ($ millions) ..
Disaster risk reduction progress score (1–5 scale; 5 = best) ..
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) ..
Primary completion rate, total (% of relevant age group) 97
Ratio of girls to boys in primary & secondary school (%) 100

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 11.9
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 354.4
CO₂ emissions, total (MtCO₂) 13,285
GHG net emissions/removals by LUCF (MtCO₂e) ..
Methane (CH₄) emissions, total (MtCO₂e) 1,539
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 813
Other GHG emissions, total (MtCO₂e) 460
Energy use per capita (kilograms of oil equivalent) 4,944
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 147.0

National-Level Actions
Latest UNFCCC national communication
Annex-I emissions reduction target
NAMA submission
NAPA submission
Renewable energy target

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects
Issued Certified Emission Reductions (CERs) from CDM (thousands)
Hosted Joint Implementation (JI) projects
Issued Emission Reduction Units (ERUs) from JI (thousands)
**Euro area**

| Population (millions) | 331.7 | GDP ($ billions) | 12,174.5 |
|-----------------------|-------|----------------|----------|
| Pop. growth (avg. ann. %, 1990-2010) | 0.4 | GNI per capita (Atlas $) | 38,571 |

**Climate**

Average daily min/max temperature (1961-90, Celsius)
Projected annual temperature change (2045-65, Celsius)
Average annual precipitation (1961-90, mm)
Projected annual precipitation change (2045-65, mm)
Projected change in annual hot days/warm nights
Projected change in annual cool days/cold nights

**Exposure to Impacts**

Land area below 5m (% of land area) 3.6
Population below 5m (% of total) 8.5
Population in urban agglomerations > 1 million (%) 18
Urban pop. growth (avg. annual %, 1990-2010) 0.6
Droughts, floods, extreme temps (% pop. avg., 1990-2009) 21.5
Agricultural land under irrigation (% of total ag. land) ..
Population living below $1.25 a day (% of total) ..
Nationally terrestrial protected areas (% of total land area) 15.5
Under-five mortality rate (per 1,000) 4
Child malnutrition, underweight (% of under age five) ..
Malaria incidence rate (per 100,000 people) ..

**Resilience**

Access to improved sanitation (% of total pop.) 100
Access to improved water source (% of total pop.) 100
Cereal yield (kg, per hectare) 5,817
Access to electricity (% of total population) ..
Paved roads (% of total roads) 91.8
Health workers (per 1,000 people) 11.3
Foreign direct investment, net inflows (% of GDP) 2.7
Invest. in infrastructure w/private participation ($ millions) ..
Disaster risk reduction progress score (1-5 scale; 5 = best) ..
Ease of doing business (ranking 1-183; 1 = best) ..
Public sector mgmt & institutions avg. (1-6 scale; 6 = best) 101
Primary completion rate, total (% of relevant age group) 99
Ratio of girls to boys in primary & secondary school (%) ..

**GHG Emissions and Energy Use**

CO₂ emissions per capita (metric tons) 8.0
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 260.0
CO₂ emissions, total (MtCO₂) 2,633
GHG net emissions/removals by LUCF (MtCO₂e) ..
Methane (CH₄) emissions, total (MtCO₂e) 318
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 219
Other GHG emissions, total (MtCO₂e) 84
Energy use per capita (kilograms of oil equivalent) 3,642
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 122.2

**National-Level Actions**

Latest UNFCCC national communication
Annex-I emissions reduction target
NAMA submission
NAPA submission
Renewable energy target

**Carbon Markets**

Hosted Clean Development Mechanism (CDM) projects
Issued Certified Emission Reductions (CERs) from CDM (thousands)
Hosted Joint Implementation (JI) projects
Issued Emission Reduction Units (ERUs) from JI (thousands)
### Small island dev. states

| Population (millions) | GDP ($ billions) | 63.2 | 575.3 |
|-----------------------|------------------|------|-------|
| Pop. growth (avg. ann. %, 1990-2010) | GNI per capita (Atlas $) | 1.3 | 8,226 |

### Climate
- Average daily min/max temperature (1961-90, Celsius)
- Projected annual temperature change (2045-65, Celsius)
- Average annual precipitation (1961-90, mm)
- Projected annual precipitation change (2045-65, mm)
- Projected change in annual hot days/warm nights
- Projected change in annual cool days/cold nights

### Exposure to Impacts

| Metric | Value |
|--------|-------|
| Land area below 5m (% of land area) | 5.4 |
| Population below 5m (% of total) | 9.8 |
| Population in urban agglomerations > 1 million (%) | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 2.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. |
| Annual freshwater withdrawals (% of internal resources) | 1.4 |
| Agricultural land under irrigation (% of total ag. land) | .. |
| Population living below $1.25 a day (% of total) | .. |
| Nationally terrestrial protected areas (% of total land area) | 6.7 |
| Under-five mortality rate (per 1,000) | 69 |
| Child malnutrition, underweight (% of under age five) | 9.7 |
| Malaria incidence rate (per 100,000 people) | .. |

### Resilience

| Metric | Value |
|--------|-------|
| Access to improved sanitation (% of total pop.) | 67 |
| Access to improved water source (% of total pop.) | 80 |
| Cereal yield (kg. per hectare) | 1,922 |
| Access to electricity (% of total population) | 81.4 |
| Paved roads (% of total roads) | 49.9 |
| Health workers (per 1,000 people) | .. |
| Foreign direct investment, net inflows (% of GDP) | 12.2 |
| Invest. in infrastructure w/private participation ($ millions) | 186 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. |
| Ease of doing business (ranking 1-183; 1 = best) | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. |
| Primary completion rate, total (% of relevant age group) | .. |
| Ratio of girls to boys in primary & secondary school (%) | .. |

### GHG Emissions and Energy Use

| Metric | Value |
|--------|-------|
| CO₂ emissions per capita (metric tons) | 3.7 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 351.5 |
| CO₂ emissions, total (MtCO₂) | 230 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 33 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 12 |
| Other GHG emissions, total (MtCO₂e) | .. |
| Energy use per capita (kilograms of oil equivalent) | 1,416 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 143.0 |

### National-Level Actions

- Latest UNFCCC national communication
- Annex-I emissions reduction target
- NAMA submission
- NAPA submission
- Renewable energy target

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects
- Issued Certified Emission Reductions (CERs) from CDM (thousands)
- Hosted Joint Implementation (JI) projects
- Issued Emission Reduction Units (ERUs) from JI (thousands)
Country tables

China
Data for China do not include data for Hong Kong SAR, China; Macao SAR, China; or Taiwan, China.

Cyprus
GNI and GDP data and data calculated using GNI and GDP data refer to the area controlled by the government of the Republic of Cyprus.

Georgia
GNI, GDP, and population data and data calculated using GNI, GDP and population data exclude Abkhazia and South Ossetia.

Kosovo, Montenegro, and Serbia
Where available, data for each country are shown separately. However, some indicators for Serbia prior to 2006 include data for Montenegro. Moreover, data for most indicators for Serbia from 1999 onward exclude data for Kosovo, which in 1999 became a territory under international administration pursuant to UN Security Council Resolution 1244 (1999). Kosovo became a member of the World Bank on June 29, 2009.

Moldova
GNI, GDP and population data and data calculated using GNI, GDP population data exclude Transnistria.

Morocco
GNI and GDP data and data calculated using GNI and GDP data include Former Spanish Sahara.

Netherlands Antilles
Netherlands Antilles ceased to exist on October 10, 2010. Curacao and Sint Maarten became countries within the Kingdom of the Netherlands. Bonaire, St. Eustatius, and Saba became special municipalities of the Netherlands.

Sudan and South Sudan
The Republic of South Sudan became an independent state on July 9, 2011. Data reported for Sudan include South Sudan.

Tanzania
GNI and GDP data and data calculated using GNI and GDP data refer to mainland Tanzania only.

For more information, see World Development Indicators 2011 or http://data.worldbank.org/.
Population (millions) 34.4  GDP ($ billions) 11.8
Pop. growth (avg. ann. %, 1990–2010) 3.0  GNI per capita (Atlas $) 290

Climate
Average daily min/max temperature (1961–90, Celsius) 6 / 20
Projected annual temperature change (2045–65, Celsius) 2.3 to 3.6
Average annual precipitation (1961–90, mm) 327
Projected annual precipitation change (2045–65, mm) -58 to 13
Projected change in annual hot days/warm nights 3 / 7
Projected change in annual cool days/cold nights -1 / -1

Exposure to Impacts
| Country data | South Asia | Low income |
|--------------|------------|------------|
| Land area below 5m (% of land area) | 0.0 | 1.5 | 0.7 |
| Population below 5m (% of total) | 0.0 | 4.4 | 5.1 |
| Population in urban agglomerations > 1 million (%) | 11 | 13 | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.5 | 2.7 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 1.1 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 42.0 | 50.6 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | 4.8 | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 40.3 | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.4 | 6.1 | 10.6 |
| Under-five mortality rate (per 1,000) | 149 | 67 | 108 |
| Child malnutrition, underweight (% of under age five) | 32.9 | 42.5 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 2,428 | 1,127 | 16,659 |

Resilience
| Access to improved sanitation (% of total pop.) | 37 | 36 | 35 |
| Access to improved water source (% of total pop.) | 48 | 87 | 63 |
| Cereal yield (kg. per hectare) | 2,031 | 2,728 | 2,047 |
| Access to electricity (% of total population) | 15.6 | 62.1 | 23.0 |
| Paved roads (% of total roads) | 29.3 | 58.9 | 14.1 |
| Health workers (per 1,000 people) | 0.7 | 1.7 | 0.7 |
| Foreign direct investment, net inflows (% of GDP) | 2.6 | 1.3 | 3.2 |
| Invest. in infrastructure w/private participation ($ millions) | 60 | 73,548 | 4,471 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 160 | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 2.4 | .. | .. |
| Primary completion rate, total (% of relevant age group) | 39 | 86 | 65 |
| Ratio of girls to boys in primary & secondary school (%) | 62 | 92 | 91 |

GHG Emissions and Energy Use
| CO₂ emissions per capita (metric tons) | 0.0 | 1.3 | 0.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 28.5 | 504.6 | 270.2 |
| CO₂ emissions, total (MtCO₂) | 0.8 | 1,970 | 219 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 846 | 436 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 268 | 209 |
| Other GHG emissions, total (MtCO₂e) | .. | 9 | .. |
| Energy use per capita (kilograms of oil equivalent) | .. | 532 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 193.5 | 303.9 |

National-Level Actions
Latest UNFCCC national communication ..
Annex-I emissions reduction target n/a
NAMA submission Yes
NAPA submission Yes
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects ..
Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
| Population (millions) | 3.2 | GDP ($ billions) | 11.8 |
| Pop. growth (avg. ann. %, 1990-2010) | -0.1 | GNI per capita (Atlas $) | 3,960 |

### Climate
- Average daily min/max temperature (1961-90, Celsius): 6 / 17
- Projected annual temperature change (2045-65, Celsius): 1.9 to 2.9
- Average annual precipitation (1961-90, mm): 996
- Projected annual precipitation change (2045-65, mm): -147 to -44
- Projected change in annual hot days/warm nights: 3 / 7
- Projected change in annual cool days/cold nights: -2 / -1

### Exposure to Impacts

| Country | Europe & Central Asia | Upper middle income |
|---------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 5.0 | 2.5 | 1.8 |
| Population below 5m (% of total) | 8.2 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 18 | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | 1.3 | 0.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 5.3 |
| Annual freshwater withdrawals (% of internal resources) | 6.8 | 6.5 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 16.8 | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 9.8 | 7.5 | 13.6 |
| Under-five mortality rate (per 1,000) | 18 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 6.6 | .. | 4.1 |
| Malnutrition incidence rate (per 100,000 people) | .. | .. | 80 |

### Resilience
- Access to improved sanitation (% of total pop.) | 98 | 89 | 68 |
- Access to improved water source (% of total pop.) | 97 | 95 | 92 |
- Cereal yield (kg. per hectare) | 4,315 | 2,475 | 3,690 |
- Access to electricity (% of total population) | .. | .. | 98.0 |
- Paved roads (% of total roads) | 39.0 | 85.8 | 50.5 |
- Health workers (per 1,000 people) | 5.2 | 9.9 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | 9.4 | 2.8 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 137 | 22,652 | 26,166 |
- Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) | 82 |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 3.3 |
- Primary completion rate, total (% of relevant age group) | 90 | 95 | 98 |
- Ratio of girls to boys in primary & secondary school (%) | 100 | 97 | 103 |

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 1.3 | 7.7 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 181.8 | 708.0 | 659.4 |
- CO₂ emissions, total (MtCO₂) | 4.2 | 3,110 | 12,860 |
- GHG net emissions/removals by LUCF (1994, MtCO₂e) | 1.5 |
- Methane (CH₄) emissions, total (MtCO₂e) | 2.4 | 937 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 1.0 | 214 | 1,144 |
- Other GHG emissions, total (MtCO₂e) | 0.1 | 76 | 243 |
- Energy use per capita (kilograms of oil equivalent) | 538 | 2,833 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 72.3 | 276.8 | 227.1 |

### National-Level Actions
- Latest UNFCCC national communication | 11/23/2009 (2nd) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | .. |
- NAPA submission | n/a |
- Renewable energy target | Yes |

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | 1 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### Algeria

**Population (millions)**: 35.5  
**GDP ($ billions)**: 159.4  
**Pop. growth (avg. ann. %, 1990-2010)**: 1.7  
**GNI per capita (Atlas $)**: 4,450

### Climate
- **Average daily min/max temperature (1961-90, Celsius)**: 15 / 30  
- **Projected annual temperature change (2045-65, Celsius)**: 2.4 to 3.0  
- **Average annual precipitation (1961-90, mm)**: 89  
- **Projected annual precipitation change (2045-65, mm)**: -39 to 4  
- **Projected change in annual hot days/warm nights**: 4 / 8  
- **Projected change in annual cool days/cold nights**: -2 / -2

### Exposure to Impacts

| Country data | Middle East & N. Africa | Upper middle income |
|--------------|--------------------------|---------------------|
| Land area below 5m (% of land area) | 0.4 | 1.4 | 1.8 |
| Population below 5m (% of total) | 3.5 | 9.7 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 8 | 20 | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | 2.9 | 2.5 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 |
| Annual freshwater withdrawals (% of internal resources) | 54.6 | 121.9 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 2.1 | .. | .. |
| Population living below $1.25 a day (% of total) | 6.8 | 3.6 | .. |
| Nationally terrestrial protected areas (% of total land area) | 6.3 | 4.0 | 13.6 |
| Under-five mortality rate (per 1,000) | 36 | 34 | 20 |
| Child malnutrition, underweight (% of under age five) | 3.7 | 6.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | .. | 80 |

### Resilience
- **Access to improved sanitation (% of total pop.)**: 95 / 84 / 68  
- **Access to improved water source (% of total pop.)**: 83 / 87 / 92  
- **Cereal yield (kg. per hectare)**: 1,654 / 2,512 / 3,690  
- **Access to electricity (% of total population)**: 99.3 / 92.9 / 98.0  
- **Paved roads (% of total roads)**: 73.5 / 74.3 / 50.5  
- **Health workers (per 1,000 people)**: 3.2 / 3.6 / 4.5  
- **Foreign direct investment, net inflows (% of GDP)**: 1.4 / 2.9 / 2.7  
- **Invest. in infrastructure w/private participation ($ millions)**: 237 / 5,854 / 26,166  
- **Disaster risk reduction progress score (1-5 scale; 5 = best)**: 3.5  
- **Ease of doing business (ranking 1-183; 1 = best)**: 148  
- **Public sector mgmt & institutions avg. (1-6 scale; 6 = best)**: ..  
- **Primary completion rate, total (% of relevant age group)**: 91 / 88 / 98  
- **Ratio of girls to boys in primary & secondary school (%)**: 98 / 93 / 103

### GHG Emissions and Energy Use
- **CO₂ emissions per capita (metric tons)**: 3.2 / 3.8 / 5.3  
- **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)**: 438.8 / 604.6 / 659.4  
- **CO₂ emissions, total (MtCO₂)**: 111.3 / 1,230 / 12,860  
- **GHG net emissions/removals by LUCF (2000, MtCO₂e)**: -7.9  
- **Methane (CH₄) emissions, total (MtCO₂e)**: 54.2 / 287 / 3,455  
- **Nitrous oxide (N₂O) emissions, total (MtCO₂e)**: 4.9 / 74 / 1,144  
- **Other GHG emissions, total (MtCO₂e)**: 0.5 / 7 / 243  
- **Energy use per capita (kilograms of oil equivalent)**: 1,138 / 1,399 / 1,848  
- **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)**: 153.5 / 213.9 / 227.1

### National-Level Actions
- **Latest UNFCCC national communication**: 11/25/2010 (2nd)  
- **Annex-I emissions reduction target**: n/a  
- **NAMA submission**: Yes  
- **NAPA submission**: n/a  
- **Renewable energy target**: Yes

### Carbon Markets
- **Hosted Clean Development Mechanism (CDM) projects**: ..  
- **Issued Certified Emission Reductions (CERs) from CDM (thousands)**: ..  
- **Hosted Joint Implementation (JI) projects**: n/a  
- **issued Emission Reduction Units (ERUs) from JI (thousands)**: n/a
American Samoa

Population (thousands) 68.4  GDP ($ millions) ..  Pop. growth (avg. ann. %, 1990–2010) 1.9  GNI per capita (Atlas $) ..

Climate
Average daily min/max temperature (1961–90, Celsius) ..  Projected annual temperature change (2045–65, Celsius) 1.3 to 1.6  Average annual precipitation (1961–90, mm) ..  Projected annual precipitation change (2045–65, mm) −40 to 237  Projected change in annual hot days/warm nights 16 / 25  Projected change in annual cool days/cold nights −3 / −3

Exposure to Impacts
| Country data | East Asia & Pacific | Upper middle income |
|--------------|---------------------|---------------------|
| Land area below 5m (% of land area) | 17.9 | 2.5 | 1.8 |
| Population below 5m (% of total) | 9.9 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | .. | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.6 | 3.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.8 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.3 | 14.9 | 13.6 |
| Under-five mortality rate (per 1,000) | .. | 24 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | 9.0 | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | 525 | 80 |

Resilience
Access to improved sanitation (% of total pop.) .. | 59 | 68 |
Access to improved water source (% of total pop.) .. | 88 | 92 |
Cereal yield (kg, per hectare) .. | 4,860 | 3,690 |
Access to electricity (% of total population) .. | 90.8 | 98.0 |
Paved roads (% of total roads) .. | 15.9 | 50.5 |
Health workers (per 1,000 people) .. | 2.8 | 4.5 |
Foreign direct investment, net inflows (% of GDP) .. | 3.0 | 2.7 |
Invest. in infrastructure w/private participation ($ millions) .. | 14,638 | 26,166 |
Disaster risk reduction progress score (1–5 scale; 5 = best) .. | .. | .. |
Ease of doing business (ranking 1–183; 1 = best) .. | .. | .. |
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) .. | .. | .. |
Primary completion rate, total (% of relevant age group) .. | 97 | 98 |
Ratio of girls to boys in primary & secondary school (%) .. | 103 | 103 |

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) .. | 4.3 | 5.3 |
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) .. | 827.1 | 659.4 |
CO₂ emissions, total (MtCO₂) .. | 8,259 | 12,860 |
GHG net emissions/removals by LUCF (MtCO₂e) .. | .. | .. |
Methane (CH₄) emissions, total (MtCO₂e) .. | 1,928 | 3,455 |
Nitrous oxide (N₂O) emissions, total (MtCO₂e) .. | 707 | 1,144 |
Other GHG emissions, total (MtCO₂e) .. | .. | 243 |
Energy use per capita (kilograms of oil equivalent) .. | 1,436 | 1,848 |
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) .. | 259.5 | 227.1 |

National-Level Actions
Latest UNFCCC national communication n/a  Annex-I emissions reduction target n/a  NAMA submission n/a  NAPA submission n/a  Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects n/a  Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a  Hosted Joint Implementation (JI) projects n/a  Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Exposure to Impacts

| Metric                                                                 | Country data | High income |
|------------------------------------------------------------------------|--------------|-------------|
| Land area below 5m (% of land area)                                    | 0.0          | 2.2         |
| Population below 5m (% of total)                                       | 0.0          | 7.7         |
| Population in urban agglomerations > 1 million (%)                     | ..           | ..          |
| Urban pop. growth (avg. annual %, 1990–2010)                          | 2.0          | 1.0         |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009)               | ..           | ..          |
| Annual freshwater withdrawals (% of internal resources)                | ..           | 10.4        |
| Agricultural land under irrigation (% of total ag. land)               | ..           | ..          |
| Population living below $1.25 a day (% of total)                      | 6.0          | 13.4        |
| Under-five mortality rate (per 1,000)                                  | 4            | 6           |
| Child malnutrition, underweight (% of under age five)                  | ..           | ..          |
| Malana incidence rate (per 100,000 people)                             | ..           | ..          |

### Resilience

| Metric                                                                 | Value |
|------------------------------------------------------------------------|-------|
| Access to improved sanitation (% of total pop.)                        | 100   |
| Access to improved water source (% of total pop.)                     | 100   |
| Cereal yield (kg. per hectare)                                         | 5,445 |
| Access to electricity (% of total population)                          | 87.3  |
| Paved roads (% of total roads)                                         | 100   |
| Health workers (per 1,000 people)                                     | 100   |
| Foreign direct investment, net inflows (% of GDP)                     | 1.8   |
| Invest. in infrastructure w/private participation ($ millions)        | 100   |
| Disaster risk reduction progress score (1–5 scale; 5 = best)          | 100   |
| Ease of doing business (ranking 1–183; 1 = best)                      | 100   |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best)          | 100   |
| Primary completion rate, total (% of relevant age group)              | 101   |
| Ratio of girls to boys in primary & secondary school (%)              | 104   |

### GHG Emissions and Energy Use

| Metric                                                                 | Value |
|------------------------------------------------------------------------|-------|
| CO₂ emissions per capita (metric tons)                                 | 6.5   |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)               | 354.4 |
| CO₂ emissions, total (MtCO₂)                                           | 0.5   |
| GHG net emissions/removals by LUCF (MtCO₂e)                            | 1,539 |
| Methane (CH₄) emissions, total (MtCO₂e)                                | 813   |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e)                          | 460   |
| Energy use per capita (kilograms of oil equivalent)                    | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)          | 147.0 |

### National-Level Actions

| Metric                                                                 | Value |
|------------------------------------------------------------------------|-------|
| Latest UNFCCC national communication                                   | n/a   |
| Annex-I emissions reduction target                                     | n/a   |
| NAMA submission                                                         | n/a   |
| NAPA submission                                                         | n/a   |
| Renewable energy target                                                 | ..    |

### Carbon Markets

| Metric                                                                 | Value |
|------------------------------------------------------------------------|-------|
| Hosted Clean Development Mechanism (CDM) projects                      | n/a   |
| Issued Certified Emission Reductions (CERs) from CDM (thousands)       | n/a   |
| Hosted Joint Implementation (JI) projects                              | n/a   |
| Issued Emission Reduction Units (ERUs) from JI (thousands)             | n/a   |
Angola

Population (millions) 19.1 GDP ($ billions) 84.4
Pop. growth (avg. ann. %, 1990–2010) 3.1 GNI per capita (Atlas $) 3,940

Climate
Average daily min/max temperature (1961–90, Celsius) 15 / 28
Projected annual temperature change (2045–65, Celsius) 2.1 to 2.7
Average annual precipitation (1961–90, mm) 1,010
Projected annual precipitation change (2045–65, mm) -89 to 75
Projected change in annual hot days/warm nights 7 / 20
Projected change in annual cool days/cold nights -2 / -3

Exposure to Impacts

| Country data | Sub-Saharan Africa | Lower middle income |
|--------------|--------------------|---------------------|
| Population below 5m (% of land area) | 0.2 | 0.4 | 1.7 |
| Population below 5m (% of total) | 2.1 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 25 | 14 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 5.3 | 4.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 1.0 | 1.0 | 1.0 |
| Annual freshwater withdrawals (% of internal resources) | 0.4 | 3.2 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 54.3 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 12.4 | 11.7 | 9.5 |
| Under-five mortality rate (per 1,000) | 161 | 121 | 69 |
| Child malnutrition, underweight (% of under age five) | 27.5 | 24.6 | 31.7 |
| Malara incidence rate (per 100,000 people) | 21,593 | 26,113 | 4,874 |

Resilience

Access to improved sanitation (% of total pop.) | 57 | 31 | 45 |
Access to improved water source (% of total pop.) | 50 | 60 | 84 |
Cereal yield (kg. per hectare) | 588 | 1,297 | 2,754 |
Access to electricity (% of total population) | 26.2 | 32.5 | 67.3 |
Paved roads (% of total roads) | 10.4 | 18.3 | 29.3 |
Health workers (per 1,000 people) | 1.4 | 1.2 | 2.6 |
Foreign direct investment, net inflows (% of GDP) | 11.8 | 3.6 | 2.4 |
Invest in infrastructure w/private participation ($ millions) | 534 | 11,957 | 81,789 |
Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
Ease of doing business (ranking 1–183; 1 = best) | 172 | | |
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 2.4 | | |
Primary completion rate, total (% of relevant age group) | .. | 67 | 88 |
Ratio of girls to boys in primary & secondary school (%) | .. | 89 | 93 |

GHG Emissions and Energy Use

| | CO₂ emissions per capita (metric tons) | CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | CO₂ emissions, total (MtCO₂) | GHG net emissions/removals by LUCF (MtCO₂e) | Methane (CH₄) emissions, total (MtCO₂e) | Nitrous oxide (N₂O) emissions, total (MtCO₂e) | Other GHG emissions, total (MtCO₂e) | Energy use per capita (kilograms of oil equivalent) | Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) |
|---|---|---|---|---|---|---|---|---|---|
| | 1.4 | 245.3 | 24.4 | .. | 45.4 | 38.9 | 0.0 | | 116.9 |
| | 0.8 | 428.6 | 685 | .. | 590 | 334 | .. | 689 | 308.4 |
| | 1.6 | 523.9 | 3,744 | .. | 1,705 | 687 | .. | 680 | 217.9 |

National-Level Actions

Latest UNFCCC national communication | .. | .. | .. |
Annex-I emissions reduction target | n/a | n/a | .. |
NAMA submission | .. | .. | .. |
NAPA submission | .. | .. | .. |
Renewable energy target | .. | .. | .. |

Carbon Markets

Hosted Clean Development Mechanism (CDM) projects | .. | .. | .. |
Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | .. | .. |
Hosted Joint Implementation (JI) projects | n/a | n/a | .. |
Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | n/a | .. |
### Antigua and Barbuda

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|-----------------------------|---------------------|

#### Population (thousands)
- **Antigua and Barbuda**: 88.7

#### GDP ($ billions)
- **Antigua and Barbuda**: 1.0

#### GNI per capita (Atlas $)
- **Antigua and Barbuda**: 10,590

#### Climate
- **Average daily min/max temperature (1961–90, Celsius)**: 23 / 30
- **Projected annual temperature change (2045–65, Celsius)**: 1.3 to 1.7
- **Average annual precipitation (1961–90, mm)**: 2,420
- **Projected annual precipitation change (2045–65, mm)**: -104 to 37
- **Projected change in annual hot days/warm nights**: 13 / 23
- **Projected change in annual cool days/cold nights**: -3 / -3

#### Exposure to Impacts
- **Land area below 5m (% of land area)**: 32.4
- **Population below 5m (% of total)**: 32.3
- **Urban pop. growth (avg. annual %, 1990–2010)**: 1.0
- **Droughts, floods, extreme temps (% pop. avg., 1990–2009)**: 3.3
- **Annual freshwater withdrawals (% of internal resources)**: 3.0
- **Agricultural land under irrigation (% of total ag. land)**: 2.0
- **Population living below $1.25 a day (% of total)**: 8.1
- **Nationally terrestrial protected areas (% of total land area)**: 7.0
- **Under-five mortality rate (per 1,000)**: 8
- **Child malnutrition, underweight (% of under age five)**: 3.8
- **Malaria incidence rate (per 100,000 people)**: 206

#### Resilience
- **Access to improved sanitation (% of total pop.)**: 95
- **Access to improved water source (% of total pop.)**: 91
- **Cereal yield (kg. per hectare)**: 1,737
- **Access to electricity (% of total population)**: ..
- **Paved roads (% of total roads)**: 33.0
- **Health workers (per 1,000 people)**: 6.9
- **Foreign direct investment, net inflows (% of GDP)**: 5.7
- **Invest. in infrastructure w/private participation ($ millions)**: 6
- **Disaster risk reduction progress score (1–5 scale; 5 = best)**: 2.8
- **Public sector mgmt & institutions avg. (1–6 scale; 6 = best)**: 95
- **Ratio of girls to boys in primary & secondary school (%)**: 97

#### GHG Emissions and Energy Use
- **CO₂ emissions per capita (metric tons)**: 5.1
- **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)**: 274.0
- **CO₂ emissions, total (MtCO₂)**: 4.0
- **GHG net emissions/removals by LUCF (1990, MtCO₂e)**: -0.1
- **Methane (CH₄) emissions, total (MtCO₂e)**: 1,009
- **Nitrous oxide (N₂O) emissions, total (MtCO₂e)**: 442
- **Other GHG emissions, total (MtCO₂e)**: 21
- **Energy use per capita (kilograms of oil equivalent)**: 1,699
- **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)**: 89.6

#### National-Level Actions
- **Latest UNFCCC national communication**: 9/10/2001 (1st)
- **Annex-I emissions reduction target**: n/a
- **NAMA submission**: Yes, with Goal
- **NAPA submission**: n/a
- **Renewable energy target**: ..

#### Carbon Markets
- **Hosted Clean Development Mechanism (CDM) projects**: ..
- **Issued Certified Emission Reductions (CERs) from CDM (thousands)**: ..
- **Hosted Joint Implementation (JI) projects**: n/a
- **Issued Emission Reduction Units (ERUs) from JI (thousands)**: n/a
## Argentina

| Population (millions) | GDP ($ billions) | GNI per capita (Atlas $) |
|-----------------------|-----------------|--------------------------|
| 40.4                  | 1.1             | 368.7                    |

### Climate
- Average daily min/max temperature (1961–90, Celsius): 8 / 21
- Projected annual temperature change (2045–65, Celsius): 1.4 to 2.1
- Average annual precipitation (1961–90, mm): 591
- Projected annual precipitation change (2045–65, mm): -57 to 52
- Projected change in annual hot days/warm nights: 3 / 7
- Projected change in annual cool days/cold nights: -1 / -1

### Exposure to Impacts

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|-----------------------------|---------------------|
| Land area below 5m (% of land area) | 1.2 | 1.5 | 1.8 |
| Population below 5m (% of total) | 4.5 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 39 | 35 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.4 | 2.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.2 | | |
| Annual freshwater withdrawals (% of internal resources) | 11.8 | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 1.1 | | |
| Population living below $1.25 a day (% of total) | <2 | 8.1 | |
| Nationally terrestrial protected areas (% of total land area) | 5.4 | 20.8 | 13.6 |
| Under-five mortality rate (per 1,000) | 14 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 2.3 | 3.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | 0 | 206 | 80 |

### Resilience
- Access to improved sanitation (% of total pop.)
- Access to improved water source (% of total pop.)
- Cereal yield (kg. per hectare)
- Access to electricity (% of total population)
- Paved roads (% of total roads)
- Health workers (per 1,000 people)
- Foreign direct investment, net inflows (% of GDP)
- Invest. in infrastructure w/private participation ($ millions)
- Disaster risk reduction progress score (1–5 scale; 5 = best)
- Ease of doing business (ranking 1–183; 1 = best)
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best)
- Primary completion rate, total (% of relevant age group)
- Ratio of girls to boys in primary & secondary school (%)

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons)
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)
- CO₂ emissions, total (MtCO₂)
- GHG net emissions/removals by LUCF (2000, MtCO₂e)
- Methane (CH₄) emissions, total (MtCO₂e)
- Nitrous oxide (N₂O) emissions, total (MtCO₂e)
- Other GHG emissions, total (MtCO₂e)
- Energy use per capita (kilograms of oil equivalent)
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)

### National-Level Actions
- Latest UNFCCC national communication
- Annex-I emissions reduction target
- NAMA submission
- NAPA submission
- Renewable energy target

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects
- Issued Certified Emission Reductions (CERs) from CDM (thousands)
- Hosted Joint Implementation (JI) projects
- Issued Emission Reduction Units (ERUs) from JI (thousands)
| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| Armenia      |                       |                     |

**Population (millions)**: 3.1

**GDP ($ billions)**: 9.3

**Pop. growth (avg. ann. %, 1990-2010)**: -0.7

**GNI per capita (Atlas $)**: 3,090

### Climate

- **Average daily min/max temperature (1961-90, Celsius)**: 1 / 13
- **Projected annual temperature change (2045-65, Celsius)**: 2.1 to 3.3
- **Average annual precipitation (1961-90, mm)**: 562
- **Projected annual precipitation change (2045-65, mm)**: -75 to -7
- **Projected change in annual hot days/warm nights**: 3 / 6
- **Projected change in annual cool days/cold nights**: -1 / -1

### Exposure to Impacts

- **Land area below 5m (% of land area)**: 0.0
- **Population below 5m (% of total)**: 0.0
- **Population in urban agglomerations > 1 million (%)**: 0.0
- **Urban pop. growth (avg. annual %, 1990-2010)**: -1.0
- **Droughts, floods, extreme temps (% pop. avg., 1990-2009)**: 0.5
- **Annual freshwater withdrawals (% of internal resources)**: 41.2
- **Agricultural land under irrigation (% of total ag. land)**: 8.9
- **Population living below $1.25 a day (% of total)**: <2
- **Nationally terrestrial protected areas (% of total land area)**: 8.0
- **Under-five mortality rate (per 1,000)**: 20
- **Child malnutrition, underweight (% of under age five)**: 4.2
- **Malaria incidence rate (per 100,000 people)**: 0

### Resilience

- **Access to improved sanitation (% of total pop.)**: 90
- **Access to improved water source (% of total pop.)**: 96
- **Cereal yield (kg. per hectare)**: 2,230
- **Access to electricity (% of total population)**: ..
- **Paved roads (% of total roads)**: 90.5
- **Health workers (per 1,000 people)**: 8.6
- **Foreign direct investment, net inflows (% of GDP)**: 6.2
- **Invest. in infrastructure w/private participation ($ millions)**: 98
- **Disaster risk reduction progress score (1-5 scale; 5 = best)**: 3.0
- **Ease of doing business (ranking 1-183; 1 = best)**: 55
- **Public sector mgmt & institutions avg. (1-6 scale; 6 = best)**: 3.7
- **Ratio of girls to boys in primary & secondary school (%)**: 103

### GHG Emissions and Energy Use

- **CO₂ emissions per capita (metric tons)**: 1.8
- **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)**: 320.9
- **CO₂ emissions, total (MtCO₂)**: 5.5
- **GHG net emissions/removals by LUCF (MtCO₂e)**: ..
- **Methane (CH₄) emissions, total (MtCO₂e)**: 3.0
- **Nitrous oxide (N₂O) emissions, total (MtCO₂e)**: 0.6
- **Other GHG emissions, total (MtCO₂e)**: 0.3
- **Energy use per capita (kilograms of oil equivalent)**: 843
- **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)**: 175.5

### National-Level Actions

- **Latest UNFCCC national communication**: 9/7/2010 (2nd)
- **Annex-I emissions reduction target**: n/a
- **NAMA submission**: Yes
- **NAPA submission**: n/a
- **Renewable energy target**: ..

### Carbon Markets

- **Hosted Clean Development Mechanism (CDM) projects**: 5
- **Issued Certified Emission Reductions (CERs) from CDM (thousands)**: 12
- **Hosted Joint Implementation (JI) projects**: n/a
- **Issued Emission Reduction Units (ERUs) from JI (thousands)**: n/a
Aruba

Population (thousands) 107.5  GDP ($ millions) ..
Pop. growth (avg. ann. %, 1990-2010) 2.7  GNI per capita (Atlas $) ..

Climate
Average daily min/max temperature (1961-90, Celsius) ..
Projected annual temperature change (2045-65, Celsius) 1.5 to 2.1
Average annual precipitation (1961-90, mm) ..
Projected annual precipitation change (2045-65, mm) -121 to 24
Projected change in annual hot days/warm nights 14 / 27
Projected change in annual cool days/cold nights -3 / -3

Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 29.6 | 2.2 |
| Population below 5m (% of total) | 29.6 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 2.4 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 13.4 |
| Nationally terrestrial protected areas (% of total land area) | 0.1 | .. |
| Under-five mortality rate (per 1,000) | .. | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

Resilience
Access to improved sanitation (% of total pop.) .. 100
Access to improved water source (% of total pop.) 100 100
Cereal yield (kg. per hectare) .. 5,445
Access to electricity (% of total population) .. ..
Paved roads (% of total roads) .. 87.3
Health workers (per 1,000 people) .. 10.7
Foreign direct investment, net inflows (% of GDP) .. 1.8
Invest. in infrastructure w/private participation ($ millions) .. ..
Disaster risk reduction progress score (1-5 scale; 5 = best) .. ..
Pave public sector mgmt & institutions avg. (1-6 scale; 6 = best) .. ..
Primary completion rate, total (% of relevant age group) 95 97
Ratio of girls to boys in primary & secondary school (%) 99 100

GHG Emissions and Energy Use

| Country data | High income |
|--------------|-------------|
| CO₂ emissions per capita (metric tons) | 21.7 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 354.4 |
| CO₂ emissions, total (MtCO₂) | 2.3 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | 1,539 |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 813 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 460 |
| Other GHG emissions, total (MtCO₂e) | .. | 4,944 |
| Energy use per capita (kilograms of oil equivalent) | .. | 147.0 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | .. |

National-Level Actions

| Latest UNFCCC national communication | n/a |
| Annex-I emissions reduction target | n/a |
| NAMA submission | n/a |
| NAPA submission | n/a |
| Renewable energy target | .. |

Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
| Hosted Joint Implementation (JI) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| **Land area below 5m (% of land area)** | 1.1 | 2.2 |
| **Population below 5m (% of total)** | 7.2 | 7.7 |
| **Population in urban agglomerations > 1 million (%)** | 58 | .. |
| **Urban pop. growth (avg. annual %, 1990–2010)** | 1.6 | 1.0 |
| **Droughts, floods, extreme temps (% pop. avg., 1990–2009)** | 3.0 | 10.4 |
| **Annual freshwater withdrawals (% of internal resources)** | 4.9 | .. |
| **Agricultural land under irrigation (% of total ag. land)** | 0.4 | .. |
| **Population living below $1.25 a day (% of total)** | 10.5 | 13.4 |
| **Under-five mortality rate (per 1,000)** | 5 | 6 |
| **Child malnutrition, underweight (% of under age five)** | .. | .. |
| **Malaria incidence rate (per 100,000 people)** | .. | .. |

### Resilience

| Country data | High income |
|--------------|-------------|
| **Access to improved sanitation (% of total pop.)** | 100 | 100 |
| **Access to improved water source (% of total pop.)** | 100 | 100 |
| **Cereal yield (kg. per hectare)** | 1,764 | 5,445 |
| **Access to electricity (% of total population)** | .. | .. |
| **Paved roads (% of total roads)** | .. | 87.3 |
| **Health workers (per 1,000 people)** | 12.6 | 10.7 |
| **Foreign direct investment, net inflows (% of GDP)** | 2.9 | 1.8 |
| **Invest. in infrastructure w/private participation ($ millions)** | .. | .. |
| **Disaster risk reduction progress score (1–5 scale; 5 = best)** | 4.0 | .. |
| **Ease of doing business (ranking 1–183; 1 = best)** | 15 | .. |
| **Public sector mgmt & institutions avg. (1–6 scale; 6 = best)** | .. | 97 |
| **Ratio of girls to boys in primary & secondary school (%)** | .. | .. |

### GHG Emissions and Energy Use

| Country data | High income |
|--------------|-------------|
| **CO₂ emissions per capita (metric tons)** | 18.6 | 11.9 |
| **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)** | 539.6 | 354.4 |
| **CO₂ emissions, total (MtCO₂)** | 399.2 | 13,285 |
| **GHG net emissions/removals by LUCF (2009, MtCO₂e)** | 54.0 | .. |
| **Methane (CH₄) emissions, total (MtCO₂e)** | 126.5 | 1,539 |
| **Nitrous oxide (N₂O) emissions, total (MtCO₂e)** | 63.0 | 813 |
| **Other GHG emissions, total (MtCO₂e)** | 6.5 | 460 |
| **Energy use per capita (kilograms of oil equivalent)** | 5,636 | 4,944 |
| **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)** | 174.9 | 147.0 |

### National-Level Actions

| Country data | High income |
|--------------|-------------|
| **Latest UNFCCC national communication** | 2/12/2010 (5th) | 5% / 25% |
| **Annex-I emissions reduction target (base year: 2000)** | n/a | n/a |
| **NAMA submission** | n/a | n/a |
| **NAPA submission** | n/a | n/a |
| **Renewable energy target** | Yes | Yes |

### Carbon Markets

| Country data | High income |
|--------------|-------------|
| **Hosted Clean Development Mechanism (CDM) projects** | n/a | n/a |
| **Issued Certified Emission Reductions (CERs) from CDM (thousands)** | n/a | n/a |
| **Hosted Joint Implementation (JI) projects** | .. | .. |
| **Issued Emission Reduction Units (ERUs) from JI (thousands)** | .. | .. |
### Austria

| Country data | High income |
|-------------|-------------|
| 8.4         | 376.2       |
| 0.4         | 46,690      |

### Climate

- Average daily min/max temperature (1961–90, Celsius): 2 / 10
- Projected annual temperature change (2045–65, Celsius): 1.9 to 2.9
- Average annual precipitation (1961–90, mm): 1,110
- Projected annual precipitation change (2045–65, mm): -70 to -27
- Projected change in annual hot days/warm nights: 3 / 5
- Projected change in annual cool days/cold nights: -1 / -2

### Exposure to Impacts

| Land area below 5m (% of land area) | 0.0 | 2.2 |
|-------------------------------------|-----|-----|
| Population below 5m (% of total)    | 0.0 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 20 | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.6 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 6.5 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 1.4 | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 22.9 | 13.4 |
| Under-five mortality rate (per 1,000) | 4 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

### Resilience

| Access to improved sanitation (% of total pop.) | 100 | 100 |
| Access to improved water source (% of total pop.) | 100 | 100 |
| Cereal yield (kg. per hectare) | 6,133 | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 100.0 | 87.3 |
| Health workers (per 1,000 people) | 4.7 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | -7.1 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 32 | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 97 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 97 | 100 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 8.1 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 224.4 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 67.7 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -17.5 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 8.5 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 4.4 | 813 |
| Other GHG emissions, total (MtCO₂e) | 2.3 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 3,944 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 111.8 | 147.0 |

### National-Level Actions

- Latest UNFCCC national communication: 2/16/2010 (5th)
- Annex-I emissions reduction target (base year: 1990): 20% / 30% (EU)
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: Yes

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: ..
- Issued Emission Reduction Units (ERUs) from JI (thousands): ..
Azerbaijan

| Population (millions) | GDP ($ billions) | GNI per capita (Atlas $) |
|-----------------------|------------------|--------------------------|
| 9.0                   | 51.1             | 5,080                    |

| Pop. growth (avg. ann. %, 1990-2010) | 1.2 |

**Climate**

- Average daily min/max temperature (1961-90, Celsius) 7 / 17
- Projected annual temperature change (2045-65, Celsius) 1.9 to 3.1
- Average annual precipitation (1961-90, mm) 447
- Projected annual precipitation change (2045-65, mm) -58 to 3
- Projected change in annual hot days/warm nights 3 / 6
- Projected change in annual cool days/cold nights -1 / -1

**Exposure to Impacts**

| Country data | Europe & Central Asia | Upper middle income |
|--------------|-----------------------|---------------------|

| Land area below 5m (% of land area) | 20.0 | 2.5 | 1.8 |
| Population below 5m (% of total) | 29.8 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 22 | 18 | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | 1.0 | 0.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 1.1 |
| Annual freshwater withdrawals (% of internal resources) | 150.5 | 6.5 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 29.5 |
| Population living below $1.25 a day (% of total) | <2 | 3.7 |
| Nationally terrestrial protected areas (% of total land area) | 7.1 | 7.5 | 13.6 |
| Under-five mortality rate (per 1,000) | 46 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 8.4 |
| Malaria incidence rate (per 100,000 people) | 1 |

**Resilience**

- Access to improved sanitation (% of total pop.) 45 89 68
- Access to improved water source (% of total pop.) 80 95 92
- Cereal yield (kg. per hectare) 2,607 2,475 3,690
- Access to electricity (% of total population) .. 98.0
- Paved roads (% of total roads) 50.6 85.8 50.5
- Health workers (per 1,000 people) 12.2 9.9 4.5
- Foreign direct investment, net inflows (% of GDP) 1.1 2.8 2.7
- Invest. in infrastructure w/private participation ($ millions) 124 22,652 26,166
- Disaster risk reduction progress score (1-5 scale; 5 = best) ..
- Ease of doing business (ranking 1-183; 1 = best) 66
- Public sector mgt & institutions avg. (1-6 scale; 6 = best) 3.1
- Primary completion rate, total (% of relevant age group) 92 95 98
- Ratio of girls to boys in primary & secondary school (%) 102 97 103

**GHG Emissions and Energy Use**

- CO₂ emissions per capita (metric tons) 5.4 7.7 5.3
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 670.4 708.0 659.4
- CO₂ emissions, total (MtCO₂) 47.1 3,110 12,860
- GHG net emissions/removals by LUCF (1994, MtCO₂e) -1.1
- Methane (CH₄) emissions, total (MtCO₂e) 36.6 937 3,455
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) 2.6 214 1,144
- Other GHG emissions, total (MtCO₂e) 0.1 76 243
- Energy use per capita (kilograms of oil equivalent) 1,338 2,833 1,848
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 155.7 276.8 227.1

**National-Level Actions**

- Latest UNFCCC national communication 6/7/2011 (2nd)
- Annex-I emissions reduction target n/a
- NAMA submission ..
- NAPA submission n/a
- Renewable energy target ..

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects 1
- Issued Certified Emission Reductions (CERs) from CDM (thousands) 0
- Hosted Joint Implementation (JI) projects n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Bahamas, The

| Population (thousands) | 342.9 | GDP ($ billions) | 7.5 |
|------------------------|-------|------------------|-----|
| Pop. growth (avg. ann. %, 1990-2010) | 1.5 | GNI per capita (Atlas $) | 20,610 |

#### Climate
- Average daily min/max temperature (1961-90, Celsius): 20 / 30
- Projected annual temperature change (2045-65, Celsius): 1.4 to 1.7
- Average annual precipitation change (1961-90, mm): 1,292
- Projected annual precipitation change (2045-65, mm): -96 to 74
- Projected change in annual hot days/warm nights: 10 / 16
- Projected change in annual cool days/cold nights: -2 / -2

#### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 72.0 | 2.2 |
| Population below 5m (% of total) | 46.5 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 1.7 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | 13.7 | 13.4 |
| Under-five mortality rate (per 1,000) | 16 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malania incidence rate (per 100,000 people) | .. | .. |

#### Resilience

| Access to improved sanitation (% of total pop.) | 100 | 100 |
| Access to improved water source (% of total pop.) | 97 | 100 |
| Cereal yield (kg. per hectare) | 2,196 | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 57.4 | 87.3 |
| Health workers (per 1,000 people) | .. | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 11.4 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 85 | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 95 | 97 |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 101 | 100 |
| Ratio of girls to boys in primary & secondary school (%) | .. | .. |

#### GHG Emissions and Energy Use

| CO2 emissions per capita (metric tons) | 6.5 | 11.9 |
| CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 263.6 | 354.4 |
| CO2 emissions, total (MtCO2) | 2.2 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO2e) | .. | .. |
| Methane (CH4) emissions, total (MtCO2e) | .. | 1,539 |
| Nitrous oxide (N2O) emissions, total (MtCO2e) | .. | 813 |
| Other GHG emissions, total (MtCO2e) | .. | 460 |
| Energy use per capita (kilograms of oil equivalent) | 2,156 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 85.6 | 147.0 |

#### National-Level Actions
- Latest UNFCCC national communication: 11/5/2001 (1st)
- Annex-I emissions reduction target: n/a
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: n/a

#### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects: 0
- Issued Certified Emission Reductions (CERs) from CDM (thousands): 0
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
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Bahrain

Population (millions) 1.3  GDP ($ billions) 20.6  
Pop. growth (avg. ann. %, 1990–2010) 4.7  GNI per capita (Atlas $) 18,730  

Climate
Average daily min/max temperature (1961–90, Celsius) 21 / 34  
Projected annual temperature change (2045–65, Celsius) 2.1 to 3.0  
Average annual precipitation (1961–90, mm) 83  
Projected annual precipitation change (2045–65, mm) -19 to 4  
Projected change in annual hot days/warm nights 5 / 9  
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 39.0 | 2.2 |
| Population below 5m (% of total) | 66.6 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.7 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 6,375.0 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | 1.3 | 13.4 |
| Under-five mortality rate (per 1,000) | 10 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

Resilience

| Country data | High income |
|--------------|-------------|
| Access to improved sanitation (% of total pop.) | .. | 100 |
| Access to improved water source (% of total pop.) | .. | 100 |
| Cereal yield (kg. per hectare) | .. | 5,445 |
| Access to electricity (% of total population) | 99.4 | .. |
| Paved roads (% of total roads) | 81.5 | 87.3 |
| Health workers (per 1,000 people) | 5.2 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 1.2 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 38 | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 101 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 101 | 100 |

GHG Emissions and Energy Use

| Country data | High income |
|--------------|-------------|
| CO₂ emissions per capita (metric tons) | 21.4 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 899.2 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 22.5 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 2.8 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 0.1 | 813 |
| Other GHG emissions, total (MtCO₂e) | 0.3 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 8,096 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 369.8 | 147.0 |

National-Level Actions

| Country data | High income |
|--------------|-------------|
| Latest UNFCCC national communication | 4/20/2005 (1st) | .. |
| Annex-I emissions reduction target | n/a | .. |
| NAMA submission | .. | .. |
| NAPA submission | n/a | .. |
| Renewable energy target | .. | .. |

Carbon Markets

| Country data | High income |
|--------------|-------------|
| Hosted Clean Development Mechanism (CDM) projects | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | .. |
| Hosted Joint Implementation (JI) projects | n/a | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. |
Bangladesh

Population (millions) 148.7  GDP ($ billions) 100.1
Pop. growth (avg. ann. %, 1990-2010) 1.7  GNI per capita (Atlas $) 700

Climate
Average daily min/max temperature (1961-90, Celsius) 20 / 30
Projected annual temperature change (2045-65, Celsius) 1.7 to 2.4
Average annual precipitation (1961-90, mm) 2,665
Projected annual precipitation change (2045-65, mm) -126 to 120
Projected change in annual hot days/warm nights 3 / 12
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts

| Country | South Asia | Low income |
|---------|------------|------------|
| Land area below 5m (% of land area) | 14.1 | 1.5 | 0.7 |
| Population below 5m (% of total) | 14.0 | 4.4 | 5.1 |
| Population in urban agglomerations > 1 million (%) | 14 | 13 | 11 |
| Urban pop. growth (avg. ann. %, 1990-2010) | 3.5 | 2.7 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 4.6 | | |
| Annual freshwater withdrawals (% of internal resources) | .. | 50.6 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | 52.6 | .. | .. |
| Population living below $1.25 a day (% of total) | 49.6 | 40.3 | .. |
| Nationally terrestrial protected areas (% of total land area) | 1.6 | 61.0 | 10.6 |
| Under-five mortality rate (per 1,000) | 48 | 67 | 108 |
| Child malnutrition, underweight (% of under age five) | 41.3 | 42.5 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 1,510 | 1,127 | 16,859 |

Resilience

| Country data | South Asia | Low income |
|--------------|------------|------------|
| Access to improved sanitation (% of total pop.) | 53 | 36 | 35 |
| Access to improved water source (% of total pop.) | 80 | 87 | 63 |
| Cereal yield (kg. per hectare) | 4,140 | 2,728 | 2,047 |
| Access to electricity (% of total population) | 41.0 | 62.1 | 23.0 |
| Paved roads (% of total roads) | 9.5 | 58.9 | 14.1 |
| Health workers (per 1,000 people) | 0.6 | 1.7 | 0.7 |
| Foreign direct investment, net inflows (% of GDP) | 1.0 | 1.3 | 3.2 |
| Invest. in infrastructure w/private participation ($ millions) | 617 | 73,548 | 4,471 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 4.0 | | |
| Ease of doing business (ranking 1-183; 1 = best) | 122 | | |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 3.0 | | |
| Primary completion rate, total (% of relevant age group) | 61 | 86 | 65 |
| Ratio of girls to boys in primary & secondary school (%) | 108 | 92 | 91 |

GHG Emissions and Energy Use

| Country data | South Asia | Low income |
|--------------|------------|------------|
| CO₂ emissions per capita (metric tons) | 0.3 | 1.3 | 0.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 235.8 | 504.6 | 270.2 |
| CO₂ emissions, total (MtCO₂) | 46.5 | 1,970 | 219 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | 7.8 | | |
| Methane (CH₄) emissions, total (MtCO₂e) | 92.4 | 846 | 436 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 21.4 | 268 | 209 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | 9 | |
| Energy use per capita (kilograms of oil equivalent) | 201 | 532 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 141.9 | 193.5 | 303.9 |

National-Level Actions

| Country data | South Asia | Low income |
|--------------|------------|------------|
| Latest UNFCCC national communication | 11/12/2002 (1st) | | |
| Annex-I emissions reduction target | n/a | | |
| NAMA submission | .. | | |
| NAPA submission | Yes | | |
| Renewable energy target | Yes | | |

Carbon Markets

| Country data | South Asia | Low income |
|--------------|------------|------------|
| Hosted Clean Development Mechanism (CDM) projects | 2 | | |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 | | |
| Hosted Joint Implementation (JI) projects | n/a | | |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | | |

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Barbados

| Population (thousands) | 273.3 | GDP ($ billions) | 3.2 |
|------------------------|-------|-----------------|-----|
| Pop. growth (avg. ann. %, 1990–2010) | 0.3 | GNI per capita (Atlas $) | 12,660 |

**Climate**

- Average daily min/max temperature (1961-90, Celsius): 22 / 30
- Projected annual temperature change (2045–65, Celsius): 1.4 to 1.7
- Average annual precipitation (1961-90, mm): 2,066
- Projected annual precipitation change (2045–65, mm): -154 to 14
- Projected change in annual hot days/warm nights: 14 / 24
- Projected change in annual cool days/cold nights: -3 / -3

**Exposure to Impacts**

| Country | High income |
|---------|-------------|
| Data | 15.7 | 2.2 |
| Population below 5m (% of total) | 15.7 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.4 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 76.1 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.1 | 13.4 |
| Under-five mortality rate (per 1,000) | 20 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malnutrition incidence rate (per 100,000 people) | .. | .. |

**Resilience**

| Country | High income |
|---------|-------------|
| Data | 100 | 100 |
| Access to improved sanitation (% of total pop.) | 100 | 100 |
| Access to improved water source (% of total pop.) | 2,640 | 5,445 |
| Cereal yield (kg. per hectare) | 6.7 | 10.7 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 100.0 | 87.3 |
| Health workers (per 1,000 people) | 2.5 | 1.8 |
| Foreign direct investment, net inflows (% of GDP) | .. | .. |
| Invest. in infrastructure w/private participation ($ millions) | 4.0 | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | .. | 97 |
| Ratio of girls to boys in primary & secondary school (%) | .. | 100 |

**GHG Emissions and Energy Use**

| Country | High income |
|---------|-------------|
| Data | 5.0 | 11.9 |
| CO₂ emissions per capita (metric tons) | 267.5 | 354.4 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 1.4 | 13,285 |
| GHG net emissions/removals by LUCF (1997, MtCO₂e) | 0.0 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 813 |
| Other GHG emissions, total (MtCO₂e) | .. | 460 |
| Energy use per capita (kilograms of oil equivalent) | 1,476 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 79.4 | 147.0 |

**National-Level Actions**

| Country | High income |
|---------|-------------|
| Data | 10/30/2001 (1st) | n/a |
| Latest UNFCCC national communication | .. | .. |
| Annex-I emissions reduction target | .. | .. |
| NAMA submission | .. | .. |
| NAPA submission | .. | .. |
| Renewable energy target | .. | .. |

**Carbon Markets**

| Country | High income |
|---------|-------------|
| Data | .. | .. |
| Hosted Clean Development Mechanism (CDM) projects | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | .. |
| Hosted Joint Implementation (JI) projects | .. | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | .. | .. |

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Belarus

| Population (millions) | 9.5 | GDP ($ billions) | 54.7 |
|-----------------------|-----|-----------------|------|
| Pop. growth (avg. ann. %, 1990-2010) | -0.4 | GNI per capita (Atlas $) | 6,130 |

**Climate**

- Average daily min/max temperature (1961-90, Celsius) | 2 / 10 |
- Projected annual temperature change (2045-65, Celsius) | 2.2 to 3.1 |
- Average annual precipitation (1961-90, mm) | 618 |
- Projected annual precipitation change (2045-65, mm) | 8 to 70 |
- Projected change in annual hot days/warm nights | 2 / 5 |
- Projected change in annual cool days/cold nights | -2 / -2 |

**Exposure to Impacts**

| Country | Europe & Central Asia | Upper middle income |
|---------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 0.0 | 2.5 | 1.8 |
| Population below 5m (% of total) | 0.0 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 20 | 18 | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.2 | 0.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | | | |
| Annual freshwater withdrawals (% of internal resources) | 11.7 | 6.5 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 0.5 | | |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 7.3 | 7.5 | 13.6 |
| Under-five mortality rate (per 1,000) | 6 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 1.3 | .. | 4.1 |
| Malnutrition incidence rate (per 100,000 people) | .. | .. | 80 |

**Resilience**

| Access to improved sanitation (% of total pop.) | 93 | 89 | 68 |
| Access to improved water source (% of total pop.) | 100 | 95 | 92 |
| Cereal yield (kg. per hectare) | 3,374 | 2,475 | 3,690 |
| Access to electricity (% of total population) | .. | .. | 98.0 |
| Paved roads (% of total roads) | 88.6 | 85.8 | 50.5 |
| Health workers (per 1,000 people) | 5.1 | 9.9 | 4.5 |
| Foreign direct investment, net inflows (% of GDP) | 2.6 | 2.8 | 2.7 |
| Invest. in infrastructure w/private participation ($ millions) | 1,045 | 22,652 | 26,166 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. | |
| Ease of doing business (ranking 1-183; 1 = best) | 69 | | |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. | |
| Primary completion rate, total (% of relevant age group) | 96 | 95 | 98 |
| Ratio of girls to boys in primary & secondary school (%) | 102 | 97 | 103 |

**GHG Emissions and Energy Use**

| CO₂ emissions per capita (metric tons) | 6.5 | 7.7 | 5.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 566.9 | 708.0 | 659.4 |
| CO₂ emissions, total (MtCO₂) | 62.8 | 3,110 | 12,860 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -30.0 | | |
| Methane (CH₄) emissions, total (MtCO₂e) | 11.5 | 937 | 3,455 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 11.7 | 214 | 1,144 |
| Other GHG emissions, total (MtCO₂e) | 0.5 | 76 | 243 |
| Energy use per capita (kilograms of oil equivalent) | 2,815 | 2,833 | 1,848 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 236.8 | 276.8 | 227.1 |

**National-Level Actions**

- Latest UNFCCC national communication: 5/3/2010 (5th)
- Annex-I emissions reduction target (base year: 1990): 5% to 10%
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: ..

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: ..
- Issued Emission Reduction Units (ERUs) from JI (thousands): ..
### Belgium

#### Population (millions) 10.9  GDP ($ billions) 467.5  GNI per capita (Atlas $) 45,360

#### Climate
- Average daily min/max temperature (1961-90, Celsius): 6 / 14
- Projected annual temperature change (2045-65, Celsius): 1.4 to 2.4
- Average annual precipitation (1961-90, mm): 847
- Projected annual precipitation change (2045-65, mm): -64 to 29
- Projected change in annual hot days/warm nights: 3 / 5
- Projected change in annual cool days/cold nights: -1 / -2

#### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 9.2 | 2.2 |
| Population below 5m (% of total) | 14.3 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 18 | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.5 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 0.4 | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.9 | 13.4 |
| Under-five mortality rate (per 1,000) | 4 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

#### Resilience
- Access to improved sanitation (% of total pop.): 100
- Access to improved water source (% of total pop.): 100
- Cereal yield (kg. per hectare): 9,711
- Access to electricity (% of total population): 100
- Paved roads (% of total roads): 78.2
- Health workers (per 1,000 people): 3.3
- Foreign direct investment, net inflows (% of GDP): 13.4
- Invest. in infrastructure w/private participation ($ millions): ..
- Disaster risk reduction progress score (1-5 scale; 5 = best): ..
- Ease of doing business (ranking 1-183; 1 = best): 28
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best): ..
- Primary completion rate, total (% of relevant age group): 87
- Ratio of girls to boys in primary & secondary school (%): 98

#### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons): 9.8
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $): 291.8
- CO₂ emissions, total (MtCO₂): 104.9
- GHG net emissions/removals by LUCF (2009, MtCO₂e): -1.6
- Methane (CH₄) emissions, total (MtCO₂e): 10.1
- Nitrous oxide (N₂O) emissions, total (MtCO₂e): 6.6
- Other GHG emissions, total (MtCO₂e): 2.1
- Energy use per capita (kilograms of oil equivalent): 5,221
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $): 159.1

#### National-Level Actions
- Latest UNFCCC national communication: 3/10/2010 (5th)
- Annex-I emissions reduction target (base year: 1990): 20% / 30% (EU)

#### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (II) projects: ..
- Issued Emission Reduction Units (ERUs) from Ji (thousands): ..
## Exposure to Impacts

| Country data | Latin America & the Carib. | Lower middle income |
|--------------|----------------------------|---------------------|
| Population below 5m (% of total) | 15.8 | 3.8 | 6.5 |
| Population below 5m (% of land area) | 9.5 | 1.5 | 1.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.5 | 2.0 | 2.8 |
| Droughts, floods, extreme temps (% pop., avg., 1990–2009) | 0.8 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 0.9 | 2.0 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 12.4 | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 27.9 | 20.8 | 9.5 |
| Under-five mortality rate (per 1,000) | 17 | 23 | 69 |
| Child malnutrition, underweight (% of under age five) | 4.9 | 3.8 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 210 | 206 | 4,874 |

## Resilience

| Country data | Latin America & the Carib. | Lower middle income |
|--------------|----------------------------|---------------------|
| Access to improved sanitation (% of total pop.) | 90 | 79 | 45 |
| Access to improved water source (% of total pop.) | 99 | 93 | 84 |
| Cereal yield (kg. per hectare) | 2,972 | 3,337 | 2,754 |
| Access to electricity (% of total population) | .. | 93.4 | 67.3 |
| Paved roads (% of total roads) | 17.0 | 28.1 | 29.3 |
| Health workers (per 1,000 people) | 2.8 | 6.9 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 6.7 | 2.3 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 22 | 33,064 | 81,789 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | 93 | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | 106 | 102 |
| Primary completion rate, total (% of relevant age group) | 101 | 102 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 101 | 102 | 93 |

## GHG Emissions and Energy Use

| Country data | Latin America & the Carib. | Lower middle income |
|--------------|----------------------------|---------------------|
| CO₂ emissions per capita (metric tons) | 1.3 | 2.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 212.0 | 285.6 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 0.4 | 1,584 | 3,744 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | .. | 1,009 | 1,705 |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 442 | 687 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 21 | 17 |
| Other GHG emissions, total (MtCO₂e) | .. | 571 | 1,245 |
| Energy use per capita (kilograms of oil equivalent) | 92.1 | 130.6 | 217.9 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | .. | .. |

## National-Level Actions

| Country data | Latin America & the Carib. | Lower middle income |
|--------------|----------------------------|---------------------|
| Latest UNFCCC national communication | 9/16/2002 (1st) | .. | .. |
| Annex-I emissions reduction target | n/a | .. | .. |
| NAMA submission | .. | .. | .. |
| NAPA submission | n/a | .. | .. |
| Renewable energy target | .. | .. | .. |

## Carbon Markets

| Country data | Latin America & the Carib. | Lower middle income |
|--------------|----------------------------|---------------------|
| Hosted Clean Development Mechanism (CDM) projects | .. | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | .. | .. |
| Hosted Joint Implementation (JI) projects | n/a | .. | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. | .. |

### Belize

| Population (thousands) | GDP ($ billions) | GNI per capita (Atlas $) |
|------------------------|-----------------|--------------------------|
| 344.7                  | 3.0             | 1.4                      |

| Climate | 2011 The Little Data Book on Climate Change | 2011 The Little Data Book on Climate Change |
|---------|------------------------------------------|------------------------------------------|
| Average daily min/max temperature (1961–90, Celsius) | 21 / 30 | 21 / 30 |
| Projected annual temperature change (2045–65, Celsius) | 1.7 to 2.6 | 1.7 to 2.6 |
| Average annual precipitation (1961–90, mm) | 2,191 | 2,191 |
| Projected annual precipitation change (2045–65, mm) | -189 to 16 | -189 to 16 |
| Projected change in annual hot days/warm nights | 8 / 21 | 8 / 21 |
| Projected change in annual cool days/cold nights | -1 / -2 | -1 / -2 |
### Benin

| Population (millions) | 8.8 | GDP ($ billions) | 6.6 |
|-----------------------|-----|----------------|-----|
| Pop. growth (avg. ann. %, 1990–2010) | 3.1 | GNI per capita (Atlas $) | 780 |

### Climate

- Average daily min/max temperature (1961–90, Celsius): 22 / 33
- Projected annual temperature change (2045–65, Celsius): 2.0 to 2.5
- Average annual precipitation (1961–90, mm): 1,039
- Projected annual precipitation change (2045–65, mm): -207 to 97
- Projected change in annual hot days/warm nights: 5 / 19
- Projected change in annual cool days/cold nights: -2 / -3

### Exposure to Impacts

| Country | Sub-Saharan Africa | Low income |
|---------|--------------------|-----------|
| Population below 5m (% of land area) | 1.2 | 0.4 | 0.7 |
| Population below 5m (% of total) | 14.1 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | .. | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.1 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.9 | | |
| Annual freshwater withdrawals (% of internal resources) | 1.3 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag, land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 47.3 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 23.8 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 115 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 20.2 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 35,555 | 26,113 | 16,659 |

### Resilience

| Country | Sub-Saharan Africa | Low income |
|---------|--------------------|-----------|
| Access to improved sanitation (% of total pop.) | 12 | 31 | 35 |
| Access to improved water source (% of total pop.) | 75 | 60 | 63 |
| Cereal yield (kg. per hectare) | 1,424 | 1,297 | 2,047 |
| Access to electricity (% of total population) | 24.8 | 32.5 | 23.0 |
| Paved roads (% of total roads) | 9.5 | 18.3 | 14.1 |
| Health workers (per 1,000 people) | 0.8 | 1.2 | 0.7 |
| Foreign direct investment, net inflows (% of GDP) | 1.7 | 3.6 | 3.2 |
| Invest. in infrastructure w/private participation ($ millions) | 394 | 11,957 | 4,471 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 175 | | |
| Public sector mgt & institutions avg. (1–6 scale; 6 = best) | 3.3 | | |
| Primary completion rate, total (% of relevant age group) | 62 | 67 | 65 |
| Ratio of girls to boys in primary & secondary school (%) | 73 | 89 | 91 |

### GHG Emissions and Energy Use

| Country | Sub-Saharan Africa | Low income |
|---------|--------------------|-----------|
| CO₂ emissions per capita (metric tons) | 0.5 | 0.8 | 0.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 345.0 | 428.6 | 270.2 |
| CO₂ emissions, total (MtCO₂) | 4.1 | 685 | 219 |
| GHG net emissions/removals by LUCF (1995, MtCO₂e) | -47.5 | | |
| Methane (CH₄) emissions, total (MtCO₂e) | 4.1 | 590 | 436 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 2.9 | 334 | 209 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | .. | .. |
| Energy use per capita (kilograms of oil equivalent) | 404 | 689 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 284.0 | 308.4 | 303.9 |

### National-Level Actions

| Country | Sub-Saharan Africa | Low income |
|---------|--------------------|-----------|
| Latest UNFCCC national communication | 10/21/2002 (1st) | | |
| Annex-I emissions reduction target | n/a | | |
| NAMA submission | Yes | | |
| NAPA submission | Yes | | |
| Renewable energy target | .. | | |

### Carbon Markets

| Country | Sub-Saharan Africa | Low income |
|---------|--------------------|-----------|
| Hosted Clean Development Mechanism (CDM) projects | .. | | |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | | |
| Hosted Joint Implementation (JI) projects | n/a | | |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | | |
Bermuda

Population (thousands) 64.6  GDP ($ billions) 5.7
Pop. growth (avg. ann. %, 1990–2010) 0.3  GNI per capita (Atlas $) ..

Climate
Average daily min/max temperature (1961–90, Celsius) 17 / 26
Projected annual temperature change (2045–65, Celsius) 1.3 to 1.7
Average annual precipitation (1961–90, mm) 1,506
Projected annual precipitation change (2045–65, mm) -97 to 60
Projected change in annual hot days/warm nights 6 / 9
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts
| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) 82.3 2.2 |
| Population below 5m (% of total) 82.3 7.7 |
| Population in urban agglomerations > 1 million (%) .. .. |
| Urban pop. growth (avg. annual %, 1990–2010) 0.3 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) .. .. |
| Annual freshwater withdrawals (% of internal resources) .. 10.4 |
| Agricultural land under irrigation (% of total ag. land) .. .. |
| Population living below $1.25 a day (% of total) 5.6 13.4 |
| Under-five mortality rate (per 1,000) .. 6 |
| Child malnutrition, underweight (% of under age five) .. .. |
| Malaria incidence rate (per 100,000 people) .. .. |

Resilience
| Access to improved sanitation (% of total pop.) .. 100 |
| Access to improved water source (% of total pop.) .. 100 |
| Cereal yield (kg. per hectare) .. 5,445 |
| Access to electricity (% of total population) .. .. |
| Paved roads (% of total roads) .. 87.3 |
| Health workers (per 1,000 people) .. 10.7 |
| Foreign direct investment, net inflows (% of GDP) 0.6 1.8 |
| Invest. in infrastructure w/private participation ($ millions) .. .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) .. .. |
| Ease of doing business (ranking 1-183; 1 = best) .. .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) .. .. |
| Primary completion rate, total (% of relevant age group) 93 97 |
| Ratio of girls to boys in primary & secondary school (%) 109 100 |

GHG Emissions and Energy Use
| CO2 emissions per capita (metric tons) 6.1 11.9 |
| CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) .. 354.4 |
| CO2 emissions, total (MtCO2) 0.4 13,285 |
| GHG net emissions/removals by LUCF (MtCO2e) .. 1,539 |
| Methane (CH4) emissions, total (MtCO2e) .. 813 |
| Nitrous oxide (N2O) emissions, total (MtCO2e) .. 460 |
| Other GHG emissions, total (MtCO2e) .. 4,944 |
| Energy use per capita (kilograms of oil equivalent) .. 147.0 |

National-Level Actions
| Latest UNFCCC national communication n/a |
| Annex-I emissions reduction target n/a |
| NAMA submission n/a |
| NAPA submission n/a |
| Renewable energy target .. |

Carbon Markets
| Hosted Clean Development Mechanism (CDM) projects n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a |
| Hosted Joint Implementation (JI) projects n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) n/a |
Bhutan

Population (thousands) 725.9 GDP ($ billions) 1.5
Pop. growth (avg. ann. %, 1990–2010) 1.3 GNI per capita (Atlas $) 1,880

Climate
Average daily min/max temperature (1961–90, Celsius) 1 / 14
Projected annual temperature change (2045–65, Celsius) 1.9 to 3.0
Average annual precipitation (1961–90, mm) 1,667
Projected annual precipitation change (2045–65, mm) -112 to 298
Projected change in annual hot days/warm nights 3 / 9
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts

| Country data | South Asia | Lower middle income |
|--------------|------------|---------------------|
| Land area below 5m (% of land area) | 0.0 | 1.5 | 1.7 |
| Population below 5m (% of total) | 0.0 | 4.4 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 13 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 5.4 | 2.7 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 50.6 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | 6.8 | .. | .. |
| Population living below $1.25 a day (% of total) | 26.2 | 40.3 | .. |
| Nationally terrestrial protected areas (% of total land area) | 28.3 | 6.1 | 9.5 |
| Under-five mortality rate (per 1,000) | 56 | 67 | 69 |
| Child malnutrition, underweight (% of under age five) | 12.0 | 42.5 | 31.7 |
| Malara incidence rate (per 100,000 people) | 100 | 1,127 | 4,874 |

Resilience
Access to improved sanitation (% of total pop.) 65 36 45
Access to improved water source (% of total pop.) 92 87 84
Cereal yield (kg. per hectare) 2,159 2,728 2,754
Access to electricity (% of total population) .. 62.1 67.3
Paved roads (% of total roads) 62.0 58.9 29.3
Health workers (per 1,000 people) 0.3 1.7 2.6
Foreign direct investment, net inflows (% of GDP) 0.8 1.3 2.4
Invest. in infrastructure w/private participation ($ millions) 201 73,548 81,789
Disaster risk reduction progress score (1–5 scale; 5 = best) .. .. ..
Ease of doing business (ranking 1–183; 1 = best) 142
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) 3.9
Primary completion rate, total (% of relevant age group) 88 86 88
Ratio of girls to boys in primary & secondary school (%) 100 92 93

GHG Emissions and Energy Use
CO2 emissions per capita (metric tons) 1.0 1.3 1.6
CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) 242.4 504.6 523.9
CO2 emissions, total (MtCO2) 0.7 1,970 3,744
GHG net emissions/removals by LUCF (1994, MtCO2e) -3.5
Methane (CH4) emissions, total (MtCO2e) .. 846 1,705
Nitrous oxide (N2O) emissions, total (MtCO2e) .. 268 687
Other GHG emissions, total (MtCO2e) .. 9 17
Energy use per capita (kilograms of oil equivalent) 354 532 680
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 84.4 193.5 217.9

National-Level Actions
Latest UNFCCC national communication 11/13/2000 (1st)
Annex-I emissions reduction target n/a
NAMA submission Yes, with Goal
NAPA submission Yes
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 2
Issued Certified Emission Reductions (CERs) from CDM (thousands) 0
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
Bolivia

Population (millions) | 9.9 | GDP ($ billions) | 19.8 |
---|---|---|---|
Pop. growth (avg. ann. %, 1990-2010) | 2.0 | GNI per capita (Atlas $) | 1,810 |

Climate

Average daily min/max temperature (1961-90, Celsius) | 15 / 28 |
Projected annual temperature change (2045-65, Celsius) | 2.1 to 3.0 |
Average annual precipitation (1961-90, mm) | 1,146 |
Projected annual precipitation change (2045-65, mm) | -91 to 137 |
Projected change in annual hot days/warm nights | 5 / 17 |
Projected change in annual cool days/cold nights | -2 / -2 |

Exposure to Impacts

| Country | Latin America & the Carib. | Lower middle income |
|---|---|---|
| Land area below 5m (% of land area) | 0.0 | 1.5 | 1.7 |
| Population below 5m (% of total) | 0.0 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 33 | 35 | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 2.9 | 2.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 1.3 |
| Annual freshwater withdrawals (% of internal resources) | 0.7 | 2.0 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 13.6 | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 18.2 | 20.8 | 9.5 |
| Under-five mortality rate (per 1,000) | 54 | 23 | 69 |
| Child malnutrition, underweight (% of under age five) | 4.5 | 3.8 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 365 | 206 | 4,874 |

Resilience

Access to improved sanitation (% of total pop.) | 25 | 79 | 45 |
Access to improved water source (% of total pop.) | 86 | 93 | 84 |
Cereal yield (kg. per hectare) | 2,089 | 3,337 | 2,754 |
Access to electricity (% of total population) | 77.5 | 93.4 | 67.3 |
Paved roads (% of total roads) | 7.0 | 28.1 | 29.3 |
Health workers (per 1,000 people) | 3.4 | 6.9 | 2.6 |
Foreign direct investment, net inflows (% of GDP) | 3.1 | 2.3 | 2.4 |
Invest. in infrastructure w/private participation ($ millions) | 37 | 33,064 | 81,789 |
Disaster risk reduction progress score (1-5 scale; 5 = best) | 2.3 |
Ease of doing business (ranking 1-183; 1 = best) | 153 |
Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 3.3 |
Primary completion rate, total (% of relevant age group) | 99 | 102 | 88 |
Ratio of girls to boys in primary & secondary school (%) | 99 | 102 | 93 |

GHG Emissions and Energy Use

| | CO₂ emissions per capita (metric tons) | 1.3 | 2.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 319.8 | 285.6 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 12.8 | 1,584 | 3,744 |
| GHG net emissions/removals by LUCF (2004, MtCO₂e) | 48.0 |
| Methane (CH₄) emissions, total (MtCO₂e) | 30.3 | 1,009 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 15.1 | 442 | 687 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | 21 | 17 |
| Energy use per capita (kilograms of oil equivalent) | 638 | 1,245 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 150.2 | 130.6 | 217.9 |

National-Level Actions

Latest UNFCCC national communication | 12/2/2009 (2nd) |
Annex-I emissions reduction target | n/a |
NAMA submission | n/a |
NAPA submission | n/a |
Renewable energy target | .. |

Carbon Markets

Hosted Clean Development Mechanism (CDM) projects | 4 |
Issued Certified Emission Reductions (CERs) from CDM (thousands) | 1,118 |
Hosted Joint Implementation (JI) projects | n/a |
Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
## Bosnia and Herzegovina

| Population (millions) | 3.8 | GDP ($ billions) | 16.9 |
|-----------------------|-----|-----------------|------|
| Pop. growth (avg. ann. %, 1990-2010) | -0.7 | GNI per capita (Atlas $) | 4,790 |

### Climate
- Average daily min/max temperature (1961-90, Celsius) 5 / 15
- Projected annual temperature change (2045-65, Celsius) 1.9 to 3.0
- Average annual precipitation (1961-90, mm) 1,028
- Projected annual precipitation change (2045-65, mm) -116 to -7
- Projected change in annual hot days/warm nights 3 / 6
- Projected change in annual cool days/cold nights -2 / -2

### Exposure to Impacts

| Country | Europe & Central Asia | Upper middle income |
|---------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 0.1 | 2.5 | 1.8 |
| Population below 5m (% of total) | 0.1 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 18 | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.4 | 0.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.5 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 6.5 | 5.6 |
| Agricultural land under irrigation (% of total ag land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.6 | 7.5 | 13.6 |
| Under-five mortality rate per 1,000 | 8 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 1.6 | .. | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | .. | 80 |

### Resilience
- Access to improved sanitation (% of total pop.) 95 | 89 | 68 |
- Access to improved water source (% of total pop.) 99 | 95 | 92 |
- Cereal yield (kg. per hectare) | 4,539 | 2,475 | 3,690 |
- Access to electricity (% of total population) | .. | .. | 98.0 |
- Paved roads (% of total roads) | 52.3 | 85.8 | 50.5 |
- Health workers (per 1,000 people) | 6.1 | 9.9 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | 1.4 | 2.8 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 125 | 22,652 | 26,166 |
- Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) | 125 | .. | .. |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 3.3 | .. | .. |
- Primary completion rate, total (% of relevant age group) | .. | 95 | 98 |
- Ratio of girls to boys in primary & secondary school (%) | 102 | 97 | 103 |

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 8.3 | 7.7 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 1,108.3 | 708.0 | 659.4 |
- CO₂ emissions, total (MtCO₂) | 31.3 | 3,110 | 12,860 |
- GHG net emissions/removals by LUCF (1990, MtCO₂e) | -7.4 | .. | .. |
- Methane (CH₄) emissions, total (MtCO₂e) | 2.7 | 937 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 1.2 | 214 | 1,144 |
- Other GHG emissions, total (MtCO₂e) | 0.6 | 76 | 243 |
- Energy use per capita (kilograms of oil equivalent) | 1,580 | 2,833 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 217.7 | 276.8 | 227.1 |

### National-Level Actions
- Latest UNFCCC national communication 5/26/2010 (1st)
- Annex-I emissions reduction target n/a
- NAMA submission ..
- NAPA submission n/a
- Renewable energy target ..

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects ..
- Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
- Hosted Joint Implementation (JI) projects n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Botswana

| Population (millions) | 2.0 | GDP ($ billions) | 14.9 |
|-----------------------|-----|----------------|------|
| Pop. growth (avg. ann. %, 1990–2010) | 1.9 | GNI per capita (Atlas $) | 6,790 |

#### Climate

- Average daily min/max temperature (1961–90, Celsius)
- Projected annual temperature change (2045–65, Celsius)
- Average annual precipitation (1961–90, mm)
- Projected annual precipitation change (2045–65, mm)
- Projected change in annual hot days/warm nights
- Projected change in annual cool days/cold nights

#### Exposure to Impacts

| Country data | Sub-Saharan Africa | Upper middle income |
|--------------|-------------------|---------------------|
| Land area below 5m (% of land area) | 0.0 | 0.4 | 1.8 |
| Population below 5m (% of total) | 0.0 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 14 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.8 | 4.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.7 | 0.7 | 0.7 |
| Annual freshwater withdrawals (% of internal resources) | 8.1 | 3.2 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 0.0 | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.8 | 4.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.7 | 0.7 | 0.7 |
| Annual freshwater withdrawals (% of internal resources) | 8.1 | 3.2 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 0.0 | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.8 | 4.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.7 | 0.7 | 0.7 |
| Annual freshwater withdrawals (% of internal resources) | 8.1 | 3.2 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 0.0 | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.8 | 4.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.7 | 0.7 | 0.7 |
| Annual freshwater withdrawals (% of internal resources) | 8.1 | 3.2 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 0.0 | .. | .. |

#### Resilience

- Access to improved sanitation (% of total pop.) | 60 | 31 | 68 |
- Access to improved water source (% of total pop.) | 95 | 60 | 92 |
- Cereal yield (kg. per hectare) | 569 | 1,297 | 3,690 |
- Access to electricity (% of total population) | 45.4 | 32.5 | 98.0 |
- Paved roads (% of total roads) | 32.6 | 18.3 | 50.5 |
- Health workers (per 1,000 people) | 3.2 | 1.2 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | 3.6 | 3.6 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 59 | 11,957 | 26,166 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.0 | .. | .. |
- Ease of doing business (ranking 1–183; 1 = best) | 54 | .. | .. |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 95 | 67 | 98 |
- Primary completion rate, total (% of relevant age group) | 100 | 89 | 103 |

#### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons) | 2.5 | 0.8 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 197.3 | 428.6 | 659.4 |
- CO₂ emissions, total (MtCO₂) | 4.8 | 685 | 12,860 |
- GHG net emissions/removals by LUCF (1994, MtCO₂e) | -38.7 | .. | .. |
- Methane (CH₄) emissions, total (MtCO₂e) | 4.5 | 590 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 3.1 | 334 | 1,144 |
- Other GHG emissions, total (MtCO₂e) | 0.0 | .. | 243 |
- Energy use per capita (kilograms of oil equivalent) | 1,034 | 689 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 87.8 | 308.4 | 227.1 |

#### National-Level Actions

- Latest UNFCCC national communication | 10/22/2001 (1st) |
- Annex-I emissions reduction target | .. |
- NAMA submission | Yes |
- NAPA submission | n/a |
- Renewable energy target | Yes |

#### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects | .. |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### Exposure to Impacts

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|----------------------------|---------------------|
| Land area below 5m (%) of land area | 1.2 | 1.5 | 1.8 |
| Population below 5m (%) of total | 4.9 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 41 | 35 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.0 | 2.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.5 | 0.5 | 0.5 |
| Annual freshwater withdrawals (% of internal resources) | 1.1 | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (%) of total | 3.8 | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 28.0 | 20.8 | 13.6 |
| Under-five mortality rate (per 1,000) | 19 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 2.2 | 3.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | 210 | 206 | 80 |

### Resilience

- Access to improved sanitation (% of total pop.): 80 / 79 / 68
- Access to improved water source (% of total pop.): 97 / 93 / 92
- Cereal yield (kg. per hectare): 3,533 / 3,337 / 3,690
- Access to electricity (% of total population): 98.3 / 93.4 / 98.0
- Paved roads (% of total roads): 5.5 / 28.1 / 50.5
- Health workers (per 1,000 people): 8.2 / 6.9 / 4.5
- Foreign direct investment, net inflows (% of GDP): 2.3 / 2.3 / 2.7
- Invest. in infrastructure w/private participation ($ millions): 16,733 / 33,064 / 26,166
- Disaster risk reduction progress score (1–5 scale; 5 = best): 4.5 / 4.5 / 4.5
- Ease of doing business (ranking 1–183; 1 = best): 126 / 126 / 126
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best): .. / .. / ..
- Primary completion rate, total (% of relevant age group): 106 / 102 / 98
- Ratio of girls to boys in primary & secondary school (%): 103 / 102 / 103

### GHG Emissions and Energy Use

|  | Carbon data | Latin America & the Carib. | Upper middle income |
|---|-------------|-----------------------------|---------------------|
| CO₂ emissions per capita (metric tons) | 2.1 | 2.8 | 5.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 214.2 | 285.6 | 659.4 |
| CO₂ emissions, total (MtCO₂) | 393.2 | 1,584 | 12,860 |
| GHG net emissions/removals by LUCF (2005, MtCO₂e) | 1,329.1 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 492.2 | 1,009 | 3,455 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 236.0 | 442 | 1,144 |
| Other GHG emissions, total (MtCO₂e) | 11.8 | 21 | 243 |
| Energy use per capita (kilograms of oil equivalent) | 1,243 | 1,245 | 1,848 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 131.7 | 130.6 | 227.1 |

### National-Level Actions

- Latest UNFCCC national communication: 11/30/2010 (2nd)
- Annex-I emissions reduction target: n/a
- NAMA submission: Yes, with Goal
- NAPA submission: n/a
- Renewable energy target: Yes

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: 196
- Issued Certified Emission Reductions (CERs) from CDM (thousands): 57,990
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
Brunei Darussalam

Population (thousands) 398.9 GDP ($ billions) 10.7
Pop. growth (avg. ann. %, 1990–2010) 2.3 GNI per capita (Atlas $) 31,800

Climate
Average daily min/max temperature (1961–90, Celsius) 23 / 31
Projected annual temperature change (2045–65, Celsius) 1.5 to 1.9
Average annual precipitation (1961–90, mm) 2,722
Projected annual precipitation change (2045–65, mm) –185 to 111
Projected change in annual hot days/warm nights 15 / 27
Projected change in annual cool days/cold nights –2 / –3

Exposure to Impacts
Land area below 5m (% of land area) Country data High income
Population below 5m (% of total) 3.3 2.2
Population in urban agglomerations > 1 million (%) 9.2 7.7
Urban pop. growth (avg. annual %, 1990–2010) 3.0 1.0
Droughts, floods, extreme temps (% pop. avg., 1990–2009) .. ..
Annual freshwater withdrawals (% of internal resources) 1.1 10.4
Agricultural land under irrigation (% of total ag. land) 0.0 ..
Population living below $1.25 a day (% of total) 42.9 13.4
Under-five mortality rate (per 1,000) 7 6
Child malnutrition, underweight (% of under age five) .. ..
Malaria incidence rate (per 100,000 people) .. ..

Resilience
Access to improved sanitation (% of total pop.) .. 100
Access to improved water source (% of total pop.) 99 100
Cereal yield (kg. per hectare) 1,291 5,445
Access to electricity (% of total population) 99.7 ..
Paved roads (% of total roads) 77.2 87.3
Health workers (per 1,000 people) 6.3 10.7
Foreign direct investment, net inflows (% of GDP) 3.0 1.8
Invest. in infrastructure w/private participation ($ millions) .. ..
Disaster risk reduction progress score (1–5 scale; 5 = best) 2.8 ..
Ease of doing business (ranking 1–183; 1 = best) 83 ..
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) .. ..
Primary completion rate, total (% of relevant age group) 104 97
Ratio of girls to boys in primary & secondary school (%) 101 100

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 27.5 11.9
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 568.2 354.4
CO₂ emissions, total (MtCO₂) 10.6 13,285
GHG net emissions/removals by LUCF (MtCO₂e) .. ..
Methane (CH₄) emissions, total (MtCO₂e) 5.8 1,539
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 0.6 813
Other GHG emissions, total (MtCO₂e) 0.3 460
Energy use per capita (kilograms of oil equivalent) 7,971 4,944
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 176.5 147.0

National-Level Actions
Latest UNFCCC national communication ..
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission n/a
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects ..
Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
| Population (millions) | 7.5 | GDP ($ billions) | 47.7 |
|-----------------------|-----|-----------------|------|
| Pop. growth (avg. ann. %, 1990-2010) | -0.7 | GNI per capita (Atlas $) | 6,250 |

### Climate

- Average daily min/max temperature (1961-90, Celsius) | 6 / 16 |
- Projected annual temperature change (2045-65, Celsius) | 1.9 to 3.1 |
- Average annual precipitation (1961-90, mm) | 608 |
- Projected annual precipitation change (2045-65, mm) | -127 to -21 |
- Projected change in annual hot days/warm nights | 3 / 6 |
- Projected change in annual cool days/cold nights | -1 / -1 |

### Exposure to Impacts

| Country | Europe & Central Asia | Upper middle income |
|---------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 0.4 | 2.5 | 1.8 |
| Population below 5m (% of total) | 1.5 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 16 | 18 | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | -0.3 | 0.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 |
| Annual freshwater withdrawals (% of internal resources) | 24.2 | 6.5 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 1.4 | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 9.1 | 7.5 | 13.6 |
| Under-five mortality rate (per 1,000) | 13 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 1.6 | .. | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | .. | 80 |

### Resilience

| Access to improved sanitation (% of total pop.) | 100 | 89 | 68 |
| Access to improved water source (% of total pop.) | 100 | 95 | 92 |
| Cereal yield (kg. per hectare) | 3,413 | 2,475 | 3,690 |
| Access to electricity (% of total population) | .. | .. | 98.0 |
| Paved roads (% of total roads) | 98.4 | 85.8 | 50.5 |
| Health workers (per 1,000 people) | 8.4 | 9.9 | 4.5 |
| Foreign direct investment, net inflows (% of GDP) | 4.5 | 2.8 | 2.7 |
| Invest. in infrastructure w/private participation ($ millions) | 488,226,652 | 26,166 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 3.5 |
| Ease of doing business (ranking 1-183; 1 = best) | 59 |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. |
| Primary completion rate, total (% of relevant age group) | 94 | 95 | 98 |
| Ratio of girls to boys in primary & secondary school (%) | 97 | 97 | 103 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 6.6 | 7.7 | 5.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 552.2 | 708.0 | 659.4 |
| CO₂ emissions, total (MtCO₂) | 50.5 | 3,110 | 12,860 |
| GHG net emissions/removals by LUCF (2009, MtCO₂) | -11.8 |
| Methane (CH₄) emissions, total (MtCO₂) | 10.9 | 937 | 3,455 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂) | 4.2 | 214 | 1,144 |
| Other GHG emissions, total (MtCO₂) | 0.4 | 76 | 243 |
| Energy use per capita (kilograms of oil equivalent) | 2,305 | 2,833 | 1,848 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 202.1 | 276.8 | 227.1 |

### National-Level Actions

| Latest UNFCCC national communication | 2/12/2010 (5th) |
| Annex-I emissions reduction target (base year: 1990) | 20% / 30% (EU) |
| NAMA submission | n/a |
| NAPA submission | n/a |
| Renewable energy target | Yes |

### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
| Hosted Joint Implementation (JI) projects | 28 |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | 2,556 |
Burkina Faso

Population (millions) 16.5 GDP ($ billions) 8.8
Pop. growth (avg. ann. %, 1990-2010) 2.8 GNI per capita (Atlas $) 550

Climate
Average daily min/max temperature (1961-90, Celsius) 22 / 35
Projected annual temperature change (2045-65, Celsius) 2.2 to 2.8
Average annual precipitation (1961-90, mm) 748
Projected annual precipitation change (2045-65, mm) -229 to 88
Projected change in annual hot days/warm nights 5 / 17
Projected change in annual cool days/cold nights -2 / -3

Exposure to Impacts

| Country data | Sub-Saharan Africa | Low income |
|--------------|--------------------|------------|
| Land area below 5m (% of land area) | 0.0 | 0.4 | 0.7 |
| Population below 5m (% of total) | 0.0 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | 12 | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990-2010) | 4.8 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 1.3 |
| Annual freshwater withdrawals (% of internal resources) | 7.9 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 56.5 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 13.9 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 176 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 26.0 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 45,322 | 26,113 | 16,859 |

Resilience

Access to improved sanitation (% of total pop.) 11 31 35
Access to improved water source (% of total pop.) 76 60 63
Cereal yield (kg. per hectare) 1,002 1,297 2,047
Access to electricity (% of total population) 14.6 32.5 23.0
Paved roads (% of total roads) 4.2 18.3 14.1
Health workers (per 1,000 people) 0.8 1.2 0.7
Foreign direct investment, net inflows (% of GDP) 0.4 3.6 3.2
Invest. in infrastructure w/private participation ($ millions) 299 11,957 4,471
Disaster risk reduction progress score (1-5 scale; 5 = best) .. .. ..
Ease of doing business (ranking 1-183; 1 = best) 150 .. ..
Public sector mgmt & institutions avg. (1-6 scale; 6 = best) 3.7 .. ..
Primary completion rate, total (% of relevant age group) 47 67 65
Ratio of girls to boys in primary & secondary school (%) 88 89 91

GHG Emissions and Energy Use

CO₂ emissions per capita (metric tons) 0.1 0.8 0.3
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 113.1 428.6 270.2
CO₂ emissions, total (MtCO₂) 1.9 685 219
GHG net emissions/removals by LUCF (1994, MtCO₂e) -1.4
Methane (CH₄) emissions, total (MtCO₂e) .. 590 436
Nitrous oxide (N₂O) emissions, total (MtCO₂e) .. 334 209
Other GHG emissions, total (MtCO₂e) .. .. ..
Energy use per capita (kilograms of oil equivalent) .. 689 365
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) .. 308.4 303.9

National-Level Actions
Latest UNFCCC national communication 5/16/2002 (1st)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission Yes
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects ..
Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Burundi

| Country data | Sub-Saharan Africa | Low income |
|--------------|--------------------|------------|
| Population (millions) | 8.4 | GDP ($ billions) | 1.6 |
| Pop. growth (avg. ann. %, 1990-2010) | 2.0 | GNI per capita (Atlas $) | 170 |

#### Climate
- Average daily min/max temperature (1961-90, Celsius): 14 / 26
- Projected annual temperature change (2045-65, Celsius): 2.1 to 2.4
- Average annual precipitation (1961-90, mm): 1,218
- Projected annual precipitation change (2045-65, mm): -21 to 206
- Projected change in annual hot days/warm nights: 8 / 26
- Projected change in annual cool days/cold nights: -2 / -3

#### Exposure to Impacts

| Land area below 5m (% of land area) | 0.0 | Population below 5m (% of total) | 0.0 |
|-------------------------------------|-----|----------------------------------|-----|
| Population in urban agglomerations > 1 million (%) | .. | Urban pop. growth (avg. annual %, 1990-2010) | 4.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 2.4 | Annual freshwater withdrawals (% of internal resources) | 2.9 |
| Agricultural land under irrigation (% of total ag. land) | .. | Population living below $1.25 a day (% of total) | 81.3 |
| Nationally terrestrial protected areas (% of total land area) | 4.8 | Under-five mortality rate (per 1,000) | 142 |
| Child malnutrition, underweight (% of under age five) | 38.9 | Malaria incidence rate (per 100,000 people) | 48,475 |
| Malaria incidence rate (per 100,000 people) | .. |

#### Resilience

| Access to improved sanitation (% of total pop.) | 46 | Access to improved water source (% of total pop.) | 72 |
|------------------------------------------------|----|--------------------------------------------------|----|
| Cereal yield (kg. per hectare) | 1,319 | 1,297 | 2,047 |
| Access to electricity (% of total population) | .. | 32.5 | 23.0 |
| paved roads (% of total roads) | 10.4 | 18.3 | 14.1 |
| Health workers (per 1,000 people) | 0.2 | 1.2 | 0.7 |
| Foreign direct investment, net inflows (% of GDP) | 0.9 | 3.6 | 3.2 |
| Invest. in infrastructure w/private participation ($ millions) | 6 | 11,957 | 4,471 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 3.3 | Ease of doing business (ranking 1-183; 1 = best) | 169 |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 2.6 | Primary completion rate, total (% of relevant age group) | 52 |
| Ratio of girls to boys in primary & secondary school (%) | 93 | 89 | 91 |

#### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.0 | CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 62.9 |
|--------------------------------------|-----|--------------------------------------------------------|-----|
| CO₂ emissions, total (MtCO₂) | 0.2 | 428.6 | 270.2 |
| GHG net emissions/removals by LUCF (2005, MtCO₂e) | -15.3 | Methane (CH₄) emissions, total (MtCO₂e) | .. |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | .. | 436 |
| Other GHG emissions, total (MtCO₂e) | .. | .. | 334 |
| Energy use per capita (kilograms of oil equivalent) | 689 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 308.4 | 303.9 |

#### National-Level Actions

| Latest UNFCCC national communication | 6/28/2010 (2nd) | Annex-I emissions reduction target | n/a |
|-------------------------------------|-----------------|-----------------------------------|-----|
| NAMA submission | .. | NAPA submission | Yes |
| Renewable energy target | Yes | |

#### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | .. | Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. |
|---------------------------------------------------|-----|----------------------------------------------------------------|-----|
| Hosted Joint Implementation (JI) projects | n/a | Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
Cambodia

Population (millions) 14.1 GDP ($ billions) 11.3
Pop. growth (avg. ann. %, 1990-2010) 2.0 GNI per capita (Atlas $) 760

Climate
Average daily min/max temperature (1961-90, Celsius) 22 / 31
Projected annual temperature change (2045-65, Celsius) 1.6 to 2.0
Average annual precipitation (1961-90, mm) 1,903
Projected annual precipitation change (2045-65, mm) -109 to 95
Projected change in annual hot days/warm nights 4 / 18
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts
| Country data | East Asia & Pacific | Low income |
|--------------|--------------------|------------|
| Land area below 5m (% of land area) | 3.8 | 2.5 | 0.7 |
| Population below 5m (% of total) | 10.6 | 10.3 | 5.1 |
| Population in urban agglomerations > 1 million (%) | 11 | .. | 11 |
| Urban pop. growth (avg. annual %, 1990-2010) | 4.9 | 3.3 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 6.6 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 1.8 | 10.8 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 28.3 | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 24.0 | 14.9 | 10.6 |
| Under-five mortality rate (per 1,000) | 51 | 24 | 108 |
| Child malnutrition, underweight (% of under age five) | 28.8 | 9.0 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 1,798 | 525 | 16,659 |

Resilience
| Access to improved sanitation (% of total pop.) | 29 | 59 | 35 |
| Access to improved water source (% of total pop.) | 61 | 88 | 63 |
| Cereal yield (kg, per hectare) | 2,947 | 4,860 | 2,047 |
| Access to electricity (% of total population) | 24.0 | 90.8 | 23.0 |
| Paved roads (% of total roads) | 6.3 | 15.9 | 14.1 |
| Health workers (per 1,000 people) | 1.0 | 2.8 | 0.7 |
| Foreign direct investment, net inflows (% of GDP) | 6.9 | 3.0 | 3.2 |
| Invest. in infrastructure w/private participation ($ millions) | 1,775 | 14,638 | 4,471 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 138 | .. | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 2.7 | .. | .. |
| Primary completion rate, total (% of relevant age group) | 79 | 97 | 65 |
| Ratio of girls to boys in primary & secondary school (%) | 90 | 103 | 91 |

GHG Emissions and Energy Use
| CO2 emissions per capita (metric tons) | 0.3 | 4.3 | 0.3 |
| CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 175.4 | 827.1 | 270.2 |
| CO2 emissions, total (MtCO2) | 4.6 | 8,259 | 219 |
| GHG net emissions/removals by LUCF (1994, MtCO2e) | -17.9 | .. | .. |
| Methane (CH4) emissions, total (MtCO2e) | 20.2 | 1,928 | 436 |
| Nitrous oxide (N2O) emissions, total (MtCO2e) | 5.8 | 707 | 209 |
| Other GHG emissions, total (MtCO2e) | 0.0 | .. | .. |
| Energy use per capita (kilograms of oil equivalent) | 371 | 1,436 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 201.3 | 259.5 | 303.9 |

National-Level Actions
| Latest UNFCCC national communication | 10/8/2002 (1st) |
| Annex-I emissions reduction target | n/a |
| NAMA submission | Yes |
| NAPA submission | Yes |
| Renewable energy target | .. |

Carbon Markets
| Hosted Clean Development Mechanism (CDM) projects | 5 |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 11 |
| Hosted Joint Implementation (JI) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### Cameroon

| Population (millions) | 19.6 | GDP ($ billions) | 22.4 |
|----------------------|------|-----------------|------|
| Pop. growth (avg. ann. %, 1990-2010) | 2.4 | GNI per capita (Atlas $) | 1,180 |

#### Climate
- Average daily min/max temperature (1961-90, Celsius): 19 / 30
- Projected annual temperature change (2045-65, Celsius): 2.1 to 2.4
- Average annual precipitation (1961-90, mm): 1,604
- Projected annual precipitation change (2045-65, mm): -71 to 115
- Projected change in annual hot days/warm nights: 6 / 22
- Projected change in annual cool days/cold nights: -2 / -2

#### Exposure to Impacts

| Country data | Sub-Saharan Africa | Lower middle income |
|--------------|--------------------|---------------------|
| Land area below 5m (% of land area) | 0.1 | 0.4 | 1.7 |
| Population below 5m (% of total) | 0.3 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 20 | 14 | 14 |
| Urban pop. growth (avg. ann. %, 1990-2010) | 4.2 | 4.0 | 2.8 |
| Droughts, floods, extreme temps (% popul., 1990-2009) | 0.1 | |
| Annual freshwater withdrawals (% of internal resources) | 0.4 | 3.2 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | | |
| Population living below $1.25 a day (% of total) | 9.6 | 50.9 | |
| Nationally terrestrial protected areas (% of total land area) | 9.2 | 11.7 | 9.5 |
| Under-five mortality rate per 1,000 | 136 | 121 | 69 |
| Child malnutrition, underweight (% of under age five) | 16.6 | 24.6 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 27,818 | 26,113 | 4,874 |

#### Resilience

- Access to improved sanitation (% of total pop.) | 47 | 31 | 45 |
- Access to improved water source (% of total pop.) | 74 | 60 | 84 |
- Cereal yield (kg. per hectare) | 1,524 | 1,297 | 2,754 |
- Access to electricity (% of total population) | 48.7 | 32.5 | 67.3 |
- Paved roads (% of total roads) | 8.4 | 18.3 | 29.3 |
- Health workers (per 1,000 people) | 1.8 | 1.2 | 2.6 |
- Foreign direct investment, net inflows (% of GDP) | -0.0 | 3.6 | 2.4 |
- Invest. in infrastructure w/private participation ($ millions) | 575 | 11,957 | 81,789 |
- Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) | 161 | | |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 2.9 | | |
- Primary completion rate, total (% of relevant age group) | 73 | 67 | 88 |
- Ratio of girls to boys in primary & secondary school (%) | 86 | 89 | 93 |

#### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons) | 0.3 | 0.8 | 1.6 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 138.4 | 428.6 | 523.9 |
- CO₂ emissions, total (MtCO₂) | 5.3 | 685 | 3,744 |
- GHG net emissions/removals by LUCF (1994, MtCO₂e) | 22.2 | | |
- Methane (CH₄) emissions, total (MtCO₂e) | 18.5 | 590 | 1,705 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 9.1 | 334 | 687 |
- Other GHG emissions, total (MtCO₂e) | 0.4 | .. | 17 |
- Energy use per capita (kilograms of oil equivalent) | 361 | 689 | 680 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 177.0 | 308.4 | 217.9 |

#### National-Level Actions

- Latest UNFCCC national communication | 1/31/2005 (1st) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | Yes |
- NAPA submission | n/a |
- Renewable energy target | .. |

#### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects | 2 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
Canada

Population (millions) 34.1 GDP ($ billions) 1,574.1
Pop. growth (avg. ann. %, 1990-2010) 1.0 GNI per capita (Atlas $) 41,950

Climate
Average daily min/max temperature (1961-90, Celsius) -10 / -1
Projected annual temperature change (2045-65, Celsius) 2.6 to 3.5
Average annual precipitation (1961-90, mm) 537
Projected annual precipitation change (2045-65, mm) 17 to 88
Projected change in annual hot days/warm nights 2 / 4
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts
| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 2.4 | 2.2 |
| Population below 5m (% of total) | 4.0 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 44 | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 1.3 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 1.6 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | 8.0 | 13.4 |
| Nationally terrestrial protected areas (% of total land area) | 6 | 6 |
| Under-five mortality rate (per 1,000) | .. | .. |
| Child malnutrition, underweight (% of under age five) | 100 | 100 |
| Malaria incidence rate (per 100,000 people) | .. | .. |

Resilience
| Access to improved sanitation (% of total pop.) | 100 |
| Access to improved water source (% of total pop.) | 100 |
| Cereal yield (kg. per hectare) | 3,301 | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 39.9 | 87.3 |
| Health workers (per 1,000 people) | 12.0 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 1.5 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 4.3 |
| Ease of doing business (ranking 1-183; 1 = best) | 13 |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 96 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 99 | 100 |

GHG Emissions and Energy Use
| CO₂ emissions per capita (metric tons) | 16.3 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 455.0 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 544.1 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -12.1 |
| Methane (CH₄) emissions, total (MtCO₂e) | 89.3 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 40.2 | 813 |
| Other GHG emissions, total (MtCO₂e) | 21.9 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 7,486 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 212.4 | 147.0 |

National-Level Actions
| Latest UNFCCC national communication | 3/3/2010 (5th) |
| Annex-I emissions reduction target (base year: 2005) | 17% |
| NAMA submission | n/a |
| NAPA submission | n/a |
| Renewable energy target | .. |

Carbon Markets
| Hosted Clean Development Mechanism (CDM) projects | n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
| Hosted Joint Implementation (JI) projects | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | .. |
### Cape Verde

| Country       | Sub-Saharan Africa | Lower middle income |
|---------------|--------------------|---------------------|
| Population (thousands) | 496.0 | GDP ($ billions) | 1.6 |
| Pop. growth (avg. ann. %, 1990-2010) | 1.8 | GNI per capita (Atlas $) | 3,270 |

#### Climate

| Metric                                                                 | Value          |
|----------------------------------------------------------------------|----------------|
| Average daily min/max temperature (1961-90, Celsius)                  | 20 / 27        |
| Projected annual temperature change (2045-65, Celsius)                | 1.4 to 1.8     |
| Average annual precipitation (1961-90, mm)                            | 424            |
| Projected annual precipitation change (2045-65, mm)                   | -32 to 12      |
| Projected change in annual hot days/warm nights                       | 8 / 15         |
| Projected change in annual cool days/cold nights                      | -3 / -3        |

#### Exposure to Impacts

| Metric                                                                 | Value          |
|----------------------------------------------------------------------|----------------|
| Land area below 5m (% of land area)                                  | 14.5           |
| Population below 5m (% of total)                                     | 13.8           |
| Population in urban agglomerations > 1 million (%)                   | ..             |
| Urban pop. growth (avg. annual %, 1990-2010)                         | 3.4            |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009)             | 0.0            |
| Annual freshwater withdrawals (% of internal resources)              | 6.8            |
| Agricultural land under irrigation (% of total ag. land)              | 3.2            |
| Population living below $1.25 a day (% of total)                     | 21.0           |
| Nationally terrestrial protected areas (% of total land area)         | 2.5            |
| Under-five mortality rate per (1,000)                                | 36             |
| Child malnutrition, underweight (% of under age five)                | ..             |
| Malaria incidence rate (per 100,000 people)                          | 23             |

#### Resilience

| Metric                                                                 | Value          |
|----------------------------------------------------------------------|----------------|
| Access to improved sanitation (% of total pop.)                      | 54             |
| Access to improved water source (% of total pop.)                    | 84             |
| Cereal yield (kg. per hectare)                                       | 224            |
| Access to electricity (% of total population)                        | ..             |
| Paved roads (% of total roads)                                       | 69.0           |
| Health workers (per 1,000 people)                                    | 1.9            |
| Foreign direct investment, net inflows (% of GDP)                    | 6.8            |
| Invest. in infrastructure w/private participation ($ millions)       | 16             |
| Disaster risk reduction progress score (1-5 scale; 5 = best)         | 3.5            |
| Ease of doing business (ranking 1-183; 1 = best)                    | 119            |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best)         | 4.0            |
| Primary completion rate, total (% of relevant age group)             | 87             |
| Ratio of girls to boys in primary & secondary school (%)             | 103            |

#### GHG Emissions and Energy Use

| Metric                                                                 | Value          |
|----------------------------------------------------------------------|----------------|
| CO2 emissions per capita (metric tons)                               | 0.6            |
| CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $)              | 189.7          |
| CO2 emissions, total (MtCO2)                                         | 0.3            |
| GHG net emissions/removals by LUCF (1995, MtCO2e)                    | -0.1           |
| Methane (CH4) emissions, total (MtCO2e)                              | ..             |
| Nitrous oxide (N2O) emissions, total (MtCO2e)                        | ..             |
| Other GHG emissions, total (MtCO2e)                                  | ..             |
| Energy use per capita (kilograms of oil equivalent)                  | 213            |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)         | 67.4           |

#### National-Level Actions

| Action                                                                 | Value          |
|----------------------------------------------------------------------|----------------|
| Latest UNFCCC national communication                                 | 11/13/2000 (1st) |
| Annex-I emissions reduction target                                   | n/a            |
| NAMA submission                                                      | ..             |
| NAPA submission                                                      | Yes            |
| Renewable energy target                                              | Yes            |

#### Carbon Markets

| Action                                                                 | Value          |
|----------------------------------------------------------------------|----------------|
| Hosted Clean Development Mechanism (CDM) projects                    | 0              |
| Issued Certified Emission Reductions (CERs) from CDM (thousands)     | 0              |
| Hosted Joint Implementation (JI) projects                            | n/a            |
| Issued Emission Reduction Units (ERUs) from JI (thousands)           | n/a            |
**Cayman Islands**

**Population (thousands)** 56.2  GDP ($ millions) ..
**Pop. growth (avg. ann. %, 1990–2010)** 3.8  GNI per capita (Atlas $) ..

### Climate
- Average daily min/max temperature (1961–90, Celsius) ..
- Projected annual temperature change (2045–65, Celsius) 1.4 to 1.8
- Average annual precipitation (1961–90, mm) ..
- Projected annual precipitation change (2045–65, mm) -122 to 39
- Projected change in annual hot days/warm nights 11 / 18
- Projected change in annual cool days/cold nights -2 / -2

### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 60.3 | 2.2 |
| Population below 5m (% of total) | 59.6 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.8 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 8.7 |
| Under-five mortality rate (per 1,000) | .. | 13.4 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

### Resilience

| Access to improved sanitation (% of total pop.) | 96 | 100 |
| Access to improved water source (% of total pop.) | 95 | 100 |
| Cereal yield (kg. per hectare) | .. | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | .. | 87.3 |
| Health workers (per 1,000 people) | .. | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | .. | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.0 | .. |
| Ease of doing business (ranking 1–183; 1 = best) | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 84 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 101 | 100 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 10.1 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 354.4 |
| CO₂ emissions, total (MtCO₂) | 0.6 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | 1.539 |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 813 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 460 |
| Other GHG emissions, total (MtCO₂e) | .. | 4,944 |
| Energy use per capita (kilograms of oil equivalent) | .. | 147.0 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | .. |

### National-Level Actions

- Latest UNFCCC national communication n/a
- Annex-I emissions reduction target n/a
- NAMA submission n/a
- NAPA submission n/a
- Renewable energy target ..

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a
- Hosted Joint Implementation (JI) projects n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
## Central African Republic

| Country data | Sub-Saharan Africa | Low income |
|--------------|--------------------|------------|
| Population (millions) | 4.4 | GDP ($ billions) | 2.0 |
| Pop. growth (avg. ann. %, 1990-2010) | 2.0 | GNI per capita (Atlas $) | 470 |

### Climate
- Average daily min/max temperature (1961-90, Celsius): 18 / 32
- Projected annual temperature change (2045-65, Celsius): 2.1 to 2.4
- Average annual precipitation (1961-90, mm): 1,343
- Projected annual precipitation change (2045-65, mm): -73 to 100
- Projected change in annual hot days/warm nights: 5 / 23
- Projected change in annual cool days/cold nights: -2 / -2

### Exposure to Impacts
- Land area below 5m (% of land area): 0.0
- Population below 5m (% of total): 2.0
- Population in urban agglomerations > 1 million (%): ..
- Urban pop. growth (avg. annual %, 1990-2010): 4.0
- Droughts, floods, extreme temps (% pop. avg., 1990-2009): 0.2
- Annual freshwater withdrawals (% of internal resources): 3.2
- Agricultural land under irrigation (% of total ag. land): ..
- Population living below $1.25 a day (% of total): 62.8
- Nationally terrestrial protected areas (% of total land area): 14.7
- Under-five mortality rate (per 1,000): 159
- Child malnutrition, underweight (% of under age five): 21.8
- Malaria incidence rate (per 100,000 people): 35,786

### Resilience
- Access to improved sanitation (% of total pop.): 34
- Access to improved water source (% of total pop.): 67
- Cereal yield (kg, per hectare): 948
- Access to electricity (% of total population): 32.5
- Paved roads (% of total roads): 18.3
- Health workers (per 1,000 people): 0.5
- Foreign direct investment, net inflows (% of GDP): 3.6
- Invest. in infrastructure w/private participation ($ millions): 10
- Disaster risk reduction progress score (1-5 scale; 5 = best): 2.5
- Ease of doing business (ranking 1-183; 1 = best): 182
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best): 2.5
- Primary completion rate, total (% of relevant age group): 40
- Ratio of girls to boys in primary & secondary school (%): 69

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons): 0.1
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $): 87.8
- CO₂ emissions, total (MtCO₂): 0.3
- GHG net emissions/removals by LUCF (1994, MtCO₂e): -139.3
- Methane (CH₄) emissions, total (MtCO₂e): ..
- Nitrous oxide (N₂O) emissions, total (MtCO₂e): ..
- Other GHG emissions, total (MtCO₂e): ..
- Energy use per capita (kilograms of oil equivalent): 689
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $): 308.4

### National-Level Actions
- Latest UNFCCC national communication: 6/10/2003 (1st)
- Annex-I emissions reduction target: n/a
- NAMA submission: Yes
- NAPA submission: Yes
- Renewable energy target: ..

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects: ..
- Issued Certified Emission Reductions (CERs) from CDM (thousands): ..
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
### Chad

| Population (millions) | 11.2 | GDP ($ billions) | 7.6 |
|----------------------|------|-----------------|-----|
| Pop. growth (avg. ann. %, 1990-2010) | 3.1 | GNI per capita (Atlas $) | 620 |

#### Climate
- Average daily min/max temperature (1961-90, Celsius): 19 / 35
- Projected annual temperature change (2045-65, Celsius): 2.3 to 2.6
- Average annual precipitation (1961-90, mm): 322
- Projected annual precipitation change (2045-65, mm): -79 to 41
- Projected change in annual hot days/warm nights: 5 / 14
- Projected change in annual cool days/cold nights: -2 / -2

#### Exposure to Impacts

| Country | Sub-Saharan Africa | Low Income |
|---------|-------------------|------------|
| Land area below 5m (% of land area) | 0.0 | 0.4 | 0.7 |
| Population below 5m (% of total) | 0.0 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | .. | 14 | 11 |
| Urban pop. growth (avg. ann. %, 1990-2010) | 4.5 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 2.7 |
| Annual freshwater withdrawals (% of internal resources) | 2.4 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 61.9 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 9.4 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 173 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 33.9 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 39,508 | 26,113 | 16,659 |

#### Resilience
- Access to improved sanitation (% of total pop.) | 9 | 31 | 35 |
- Access to improved water source (% of total pop.) | 50 | 60 | 63 |
- Cereal yield (kg. per hectare) | 880 | 1,297 | 2,047 |
- Access to electricity (% of total population) | .. | 32.5 | 23.0 |
- Paved roads (% of total roads) | 0.8 | 18.3 | 14.1 |
- Health workers (per 1,000 people) | 0.3 | 1.2 | 0.7 |
- Foreign direct investment, net inflows (% of GDP) | 10.3 | 3.6 | 3.2 |
- Invest. in infrastructure w/private participation ($ millions) | 345 | 11,957 | 4,471 |
- Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) | 183 |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 2.2 |
- Primary completion rate, total (% of relevant age group) | 33 | 67 | 65 |
- Ratio of girls to boys in primary & secondary school (%) | 64 | 89 | 91 |

#### GHG Emissions and Energy Use

| CO2 emissions per capita (metric tons) | 0.0 | 0.8 | 0.3 |
| CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 36.8 | 428.6 | 270.2 |
| CO2 emissions, total (MtCO2) | 0.5 | 685 | 219 |
| GHG net emissions/removals by LUCF (1993, MtCO2e) | -46.2 |
| Methane (CH4) emissions, total (MtCO2e) | .. | 590 | 436 |
| Nitrous oxide (N2O) emissions, total (MtCO2e) | .. | 334 | 209 |
| Other GHG emissions, total (MtCO2e) | .. | .. | .. |
| Energy use per capita (kilograms of oil equivalent) | .. | 689 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 308.4 | 303.9 |

#### National-Level Actions
- Latest UNFCCC national communication: 10/29/2001 (1st)
- Annex-I emissions reduction target: n/a
- NAMA submission: Yes
- NAPA submission: Yes
- Renewable energy target: ..

#### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects: ..
- Issued Certified Emission Reductions (CERs) from CDM (thousands): ..
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
# Channel Islands

| Country data | High income |
|--------------|-------------|
| Population (thousands) | 153.4 |
| GDP ($ billions) | 11.5 |
| Pop. growth (avg. ann. %, 1990-2010) | 0.5 |
| GNI per capita (Atlas $) | 67,960 |

## Climate
- Average daily min/max temperature (1961-90, Celsius)
- Projected annual temperature change (2045-65, Celsius)
- Average annual precipitation (1961-90, mm)
- Projected annual precipitation change (2045-65, mm)
- Projected change in annual hot days/warm nights
- Projected change in annual cool days/cold nights

## Exposure to Impacts
- Land area below 5m (% of land area)
- Population below 5m (% of total)
- Population in urban agglomerations > 1 million (%)
- Urban pop. growth (avg. annual %, 1990-2010)
- Droughts, floods, extreme temps (% pop. avg., 1990-2009)
- Annual freshwater withdrawals (% of internal resources)
- Agricultural land under irrigation (% of total ag. land)
- Population living below $1.25 a day (% of total)
- Nationally terrestrial protected areas (% of total land area)
- Under-five mortality rate (per 1,000)
- Child malnutrition, underweight (% of under age five)
- Malaria incidence rate (per 100,000 people)

## Resilience
- Access to improved sanitation (% of total pop.)
- Access to improved water source (% of total pop.)
- Cereal yield (kg. per hectare)
- Access to electricity (% of total population)
- Paved roads (% of total roads)
- Health workers (per 1,000 people)
- Foreign direct investment, net inflows (% of GDP)
- Invest. in infrastructure w/private participation ($ millions)
- Disaster risk reduction progress score (1-5 scale; 5 = best)
- Ease of doing business (ranking 1-183; 1 = best)
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best)
- Primary completion rate, total (% of relevant age group)
- Ratio of girls to boys in primary & secondary school (%)

## GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons)
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)
- CO₂ emissions, total (MtCO₂)
- GHG net emissions/removals by LUCF (MtCO₂e)
- Methane (CH₄) emissions, total (MtCO₂e)
- Nitrous oxide (N₂O) emissions, total (MtCO₂e)
- Other GHG emissions, total (MtCO₂e)
- Energy use per capita (kilograms of oil equivalent)
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)

## National-Level Actions
- Latest UNFCCC national communication
- Annex-I emissions reduction target
- NAMA submission
- NAPA submission
- Renewable energy target

## Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects
- Issued Certified Emission Reductions (CERs) from CDM (thousands)
- Hosted Joint Implementation (JI) projects
- Issued Emission Reduction Units (ERUs) from JI (thousands)
Chile

Population (millions) 17.1 GDP ($ billions) 203.4
Pop. growth (avg. ann. %, 1990–2010) 1.3 GNI per capita (Atlas $) 9,950

Climate
Average daily min/max temperature (1961–90, Celsius) 4 / 13
Projected annual temperature change (2045–65, Celsius) 1.2 to 1.9
Average annual precipitation (1961–90, mm) 716
Projected annual precipitation change (2045–65, mm) -118 to 24
Projected change in annual hot days/warm nights 4 / 7
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts
Land area below 5m (% of land area) 3.1 1.5 1.8
Population below 5m (% of total) 1.6 3.8 6.5
Population in urban agglomerations > 1 million (%) 35 35 22
Urban pop. growth (avg. annual %, 1990–2010) 1.6 2.0 2.3
Droughts, floods, extreme temps (% pop. avg., 1990–2009) 0.3
Annual freshwater withdrawals (% of internal resources) 1.3 2.0 5.6
Agricultural land under irrigation (% of total ag. land) 5.6 .. ..
Population living below $1.25 a day (% of total) <2 8.1 ..
Nationally terrestrial protected areas (% of total land area) 16.5 20.8 13.6
Under-five mortality rate (per 1,000) 9 23 20
Child malnutrition, underweight (% of under age five) 0.5 3.8 4.1
Malaria incidence rate (per 100,000 people) .. 206 80

Resilience
Access to improved sanitation (% of total pop.) 96 79 68
Access to improved water source (% of total pop.) 96 93 92
Cereal yield (kg. per hectare) 5,472 3,337 3,690
Access to electricity (% of total population) 98.5 93.4 98.0
Paved roads (% of total roads) 20.2 28.1 50.5
Health workers (per 1,000 people) 1.3 6.9 4.5
Foreign direct investment, net inflows (% of GDP) 7.4 2.3 2.7
Invest. in infrastructure w/private participation ($ millions) 1,266 33,064 26,166
Disaster risk reduction progress score (1–5 scale; 5 = best) 2.8
Ease of doing business (ranking 1–183; 1 = best) 39
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) ..
Primary completion rate, total (% of relevant age group) 95 102 98
Ratio of girls to boys in primary & secondary school (%) 99 102 103

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 4.4 2.8 5.3
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 325.0 285.6 659.4
CO₂ emissions, total (MtCO₂) 73.1 1,584 12,860
GHG net emissions/removals by LUCF (1994, MtCO₂e) -9.2
Methane (CH₄) emissions, total (MtCO₂e) 20.2 1,009 3,455
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 8.1 442 1,144
Other GHG emissions, total (MtCO₂e) 0.0 21 243
Energy use per capita (kilograms of oil equivalent) 1,826 1,245 1,848
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 134.3 130.6 227.1

National-Level Actions
Latest UNFCCC national communication 2/8/2000 (1st)
Annex-I emissions reduction target n/a
NAMA submission Yes, with Goal
NAPA submission n/a
Renewable energy target Yes

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 51
Issued Certified Emission Reductions (CERs) from CDM (thousands) 7,307
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Exposure to Impacts

| Country data | East Asia & Pacific | Upper middle income |
|--------------|--------------------|---------------------|
| Land area below 5m (% of land area) | 1.4 | 2.5 | 1.8 |
| Population below 5m (% of total) | 8.1 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 18 | .. | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.3 | 3.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 8.0 | | |
| Annual freshwater withdrawals (% of internal resources) | 19.7 | 10.8 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 10.2 | .. | .. |
| Population living below $1.25 a day (% of total) | 15.9 | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 16.6 | 14.9 | 13.6 |
| Under-five mortality rate (per 1,000) | 18 | 24 | 20 |
| Child malnutrition, underweight (% of under age five) | 4.5 | 9.0 | 4.1 |
| Malaria incidence rate (per 100,000 people) | 3 | 525 | 80 |

### Resilience

| Access to improved sanitation (% of total pop.) | 55 | 59 | 68 |
| Access to improved water source (% of total pop.) | 89 | 88 | 92 |
| Cereal yield (kg. per hectare) | 5,450 | 4,860 | 3,690 |
| Access to electricity (% of total population) | 99.4 | 90.8 | 98.0 |
| Pavement (% of total road) | 53.5 | 15.9 | 50.5 |
| Health workers (per 1,000 people) | 2.8 | 2.8 | 4.5 |
| Foreign direct investment, net inflows (% of GDP) | 3.1 | 3.0 | 2.7 |
| Invest. in infrastructure w/private participation ($ millions) | 942 | 14,638 | 26,166 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 91 | | |
| Public sector mgt & institutions avg. (1–6 scale; 6 = best) | .. | .. | .. |
| Primary completion rate, total (% of relevant age group) | .. | 97 | 98 |
| Ratio of girls to boys in primary & secondary school (%) | 105 | 103 | 103 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 5.3 | 4.3 | 5.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 929.3 | 827.1 | 659.4 |
| CO₂ emissions, total (MtCO₂) | 7,031.9 | 8,259 | 12,860 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | –407.5 | | |
| Methane (CH₄) emissions, total (MtCO₂e) | 1,333.1 | 1,928 | 3,455 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 467.2 | 707 | 1,144 |
| Other GHG emissions, total (MtCO₂e) | 141.4 | .. | 243 |
| Energy use per capita (kilograms of oil equivalent) | 1,695 | 1,436 | 1,848 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 273.2 | 259.5 | 227.1 |

### National-Level Actions

| Latest UNFCCC national communication | 12/10/2004 (1st) |
| Annex-I emissions reduction target | n/a |
| NAMA submission | Yes, with Goal |
| NAPA submission | n/a |
| Renewable energy target | Yes |

### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | 1,604 |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 430,696 |
| Hosted Joint Implementation (JI) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
**Exposure to Impacts**

| Country | Latin America & the Carib. | Upper middle income |
|---------|-----------------------------|---------------------|
| Land area below 5m (% of land area) | 0.9 | 1.5 | 1.8 |
| Population below 5m (% of total) | 2.0 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 38.0 | 35.0 | 22.0 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.1 | 2.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.7 | 0.7 | 0.7 |
| Annual freshwater withdrawals (% of internal resources) | 0.6 | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 16.0 | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 20.4 | 20.8 | 13.6 |
| Under-five mortality rate (per 1,000) | 19 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 5.1 | 3.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | 394 | 206 | 80 |

**Resilience**

| Country | Latin America & the Carib. | Upper middle income |
|---------|-----------------------------|---------------------|
| Access to improved sanitation (% of total pop.) | 74 | 79 | 68 |
| Access to improved water source (% of total pop.) | 92 | 93 | 92 |
| Cereal yield (kg. per hectare) | 4,017 | 3,337 | 3,690 |
| Access to electricity (% of total population) | 93.6 | 93.4 | 98.0 |
| Paved roads (% of total roads) | .. | 28.1 | 50.5 |
| Health workers (per 1,000 people) | 1.4 | 6.9 | 4.5 |
| Foreign direct investment, net inflows (% of GDP) | 2.3 | 2.3 | 2.7 |
| Invest. in infrastructure w/private participation ($ millions) | 3,549 | 33,064 | 26,166 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.8 | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 42 | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. | .. |
| Primary completion rate, total (% of relevant age group) | 115 | 102 | 98 |
| Ratio of girls to boys in primary & secondary school (%) | 105 | 102 | 103 |

**GHG Emissions and Energy Use**

| Country | Latin America & the Carib. | Upper middle income |
|---------|-----------------------------|---------------------|
| CO₂ emissions per capita (metric tons) | 1.5 | 2.8 | 5.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 182.3 | 285.6 | 659.4 |
| CO₂ emissions, total (MtCO₂) | 67.7 | 1,584 | 12,860 |
| GHG net emissions/removals by LUCF (2004, MtCO₂e) | 26.0 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 58.1 | 1,009 | 3,455 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 21.3 | 442 | 1,144 |
| Other GHG emissions, total (MtCO₂e) | 0.1 | 21 | 243 |
| Energy use per capita (kilograms of oil equivalent) | 697 | 1,245 | 1,848 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 84.5 | 130.6 | 227.1 |

**National-Level Actions**

| Country | Latin America & the Carib. | Upper middle income |
|---------|-----------------------------|---------------------|
| Latest UNFCCC national communication | 12/7/2010 (2nd) | n/a |
| Annex-I emissions reduction target | n/a | n/a |
| NAMA submission | Yes, with Goal | n/a |
| NAPA submission | n/a | n/a |
| Renewable energy target | .. | .. |

**Carbon Markets**

| Country | Latin America & the Carib. | Upper middle income |
|---------|-----------------------------|---------------------|
| Hosted Clean Development Mechanism (CDM) projects | 34 | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 1,094 | .. | .. |
| Hosted Joint Implementation (JI) projects | n/a | n/a | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | n/a | n/a |

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**Colombia**

Population (millions) 46.3 GDP ($ billions) 288.2
Pop. growth (avg. ann. %, 1990–2010) 1.7 GNI per capita (Atlas $) 5,510

**Climate**

- Average daily min/max temperature (1961–90, Celsius) 20 / 29
- Projected annual temperature change (2045–65, Celsius) 1.8 to 2.5
- Average annual precipitation (1961–90, mm) 2,612
- Projected annual precipitation change (2045–65, mm) –80 to 199
- Projected change in annual hot days/warm nights 8 / 27
- Projected change in annual cool days/cold nights –2 / –3

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**GHG Emissions**

- CO₂ emissions per capita (metric tons)
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)
- CO₂ emissions, total (MtCO₂)
- GHG net emissions/removals by LUCF (2004, MtCO₂e)
- Methane (CH₄) emissions, total (MtCO₂e)
- Nitrous oxide (N₂O) emissions, total (MtCO₂e)
- Other GHG emissions, total (MtCO₂e)
- Energy use per capita (kilograms of oil equivalent)
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)

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**National-Level Actions**

- Latest UNFCCC national communication
- Annex-I emissions reduction target
- NAMA submission
- NAPA submission
- Renewable energy target

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**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects
- Issued Certified Emission Reductions (CERs) from CDM (thousands)
- Hosted Joint Implementation (JI) projects
- Issued Emission Reduction Units (ERUs) from JI (thousands)
### Climate
- Average daily min/max temperature (1961–90, Celsius): 22 / 30
- Projected annual temperature change (2045–65, Celsius): 1.5 to 1.8
- Average annual precipitation (1961–90, mm): 1,754
- Projected annual precipitation change (2045–65, mm): -9 to 140
- Projected change in annual hot days/warm nights: 12 / 19
- Projected change in annual cool days/cold nights: -3 / -3

### Exposure to Impacts
| Country | Sub-Saharan Africa | Low income |
|---------|-------------------|------------|
| Pop. (thousands) | 734.8 | GDP ($ millions) | 541.1 |
| Pop. growth (avg. ann. %, 1990–2010) | 2.6 | GNI per capita (Atlas $) | 750 |

#### Resilience
- Access to improved sanitation (% of total pop.) | 36 | 31 | 35 |
- Access to improved water source (% of total pop.) | 95 | 60 | 63 |
- Cereal yield (kg, per hectare) | 1,064 | 1,297 | 2,047 |
- Access to electricity (% of total population) | .. | 32.5 | 23.0 |
- Pavement (% of total roads) | 76.5 | 18.3 | 14.1 |
- Health workers (per 1,000 people) | 0.9 | 1.2 | 0.7 |
- Foreign direct investment, net inflows (% of GDP) | 1.7 | 3.6 | 3.2 |
- Invest in infrastructure w/private participation ($ millions) | 1 | 11,957 | 4,471 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | 1.8 |
- Ease of doing business (ranking 1–183; 1 = best) | 157 |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 2.4 |
- Primary completion rate, total (% of relevant age group) | 81 | 67 | 65 |
- Ratio of girls to boys in primary & secondary school (%) | 84 | 89 | 91 |

#### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 0.2 | 0.8 | 0.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 179.3 | 428.6 | 270.2 |
- CO₂ emissions, total (MtCO₂) | 0.1 | 685 | 219 |
- GHG net emissions/removals by LUCF (1994, MtCO₂e) | -0.9 |
- Methane (CH₄) emissions, total (MtCO₂e) | .. | 590 | 436 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 334 | 209 |
- Other GHG emissions, total (MtCO₂e) | .. | .. | .. |
- Energy use per capita (kilograms of oil equivalent) | 60 | 689 | 365 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 59.5 | 308.4 | 303.9 |

### National-Level Actions
- Latest UNFCCC national communication | 4/5/2003 (1st) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | .. |
- NAPA submission | Yes |
- Renewable energy target | .. |

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | .. |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |

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The Little Data Book on Climate Change 2011
| Country          | Sub-Saharan Africa | Low income |
|------------------|--------------------|------------|
| Congo, Dem. Rep. |                    |            |
| Population (millions) | 66.0               |            |
| GDP ($ billions)    | 13.1               |            |
| Pop. growth (avg. ann. %, 1990–2010) | 3.0 | 180 |

### Climate
- Average daily min/max temperature (1961–90, Celsius): 18 / 30
- Projected annual temperature change (2045–65, Celsius): 2.1 to 2.4
- Average annual precipitation change (1961–90, mm): 1,543
- Projected annual precipitation change (2045–65, mm): -48 to 128
- Projected change in annual hot days/warm nights: 6 / 25
- Projected change in annual cool days/cold nights: -2 / -3

### Exposure to Impacts

| Metric                          | Data |
|---------------------------------|------|
| Land area below 5m (% of land area) | 0.0  |
| Population below 5m (% of total) | 0.2  |
| Population in urban agglomerations > 1 million (%) | 18   |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.2  |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0  |
| Annual freshwater withdrawals (% of internal resources) | 0.1  |
| Agricultural land under irrigation (% of total ag. land) | ..   |
| Population living below $1.25 a day (% of total) | 59.2 |
| Nationally terrestrial protected areas (% of total land area) | 10.0 |
| Under-five mortality rate (per 1,000) | 170  |
| Child malnutrition, underweight (% of under age five) | 28.2 |
| Malaria incidence rate (per 100,000 people) | 37,400 |

### Resilience

| Metric                           | Data |
|----------------------------------|------|
| Access to improved sanitation (% of total pop.) | 23   |
| Access to improved water source (% of total pop.) | 46   |
| Cereal yield (kg, per hectare)   | 789  |
| Access to electricity (% of total population) | 11.1 |
| Paved roads (% of total roads)    | 1.8  |
| Health workers (per 1,000 people) | 0.6  |
| Foreign direct investment, net inflows (% of GDP) | 22.4 |
| Invest. in infrastructure w/private participation ($ millions) | 174  |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | ..   |
| Ease of doing business (ranking 1–183; 1 = best) | 178  |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 2.2  |
| Primary completion rate, total (% of relevant age group) | 56   |
| Ratio of girls to boys in primary & secondary school (%) | 77   |

### GHG Emissions and Energy Use

| Metric                                    | Data |
|-------------------------------------------|------|
| CO₂ emissions per capita (metric tons)    | 0.0  |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 151.2 |
| CO₂ emissions, total (MtCO₂)              | 2.8  |
| GHG net emissions/removals by LUCF (2003, MtCO₂e) | -178.8 |
| Methane (CH₄) emissions, total (MtCO₂e)   | 56.4 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 54.6 |
| Other GHG emissions, total (MtCO₂e)       | 0.0  |
| Energy use per capita (kilograms of oil equivalent) | 357  |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 1,196.4 |

### National-Level Actions

| Metric                           | Data |
|----------------------------------|------|
| Latest UNFCCC national communication | 11/28/2009 (2nd) |
| Annex-I emissions reduction target | n/a  |
| NAMA submission                  | ..   |
| NAPA submission                  | Yes  |
| Renewable energy target          | ..   |

### Carbon Markets

| Metric                          | Data |
|---------------------------------|------|
| Hosted Clean Development Mechanism (CDM) projects | 2   |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0   |
| Hosted Joint Implementation (JI) projects | n/a  |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a  |
### Population and Economic Indicators

| Country          | Population (millions) | GDP ($ billions) | GNI per capita (Atlas $) |
|------------------|-----------------------|-----------------|--------------------------|
| Sub-Saharan Africa | 4.0                   | 11.9            | 2,150                    |
| Lower middle income | 2.6                   |                 |                          |

### Climate

- Average daily min/max temperature (1961-90, Celsius): 20 / 29
- Projected annual temperature change (2045-65, Celsius): 2.0 to 2.3
- Average annual precipitation (1961-90, mm): 1,646
- Projected annual precipitation change (2045-65, mm): -40 to 134
- Projected change in annual hot days/warm nights: 9 / 26
- Projected change in annual cool days/cold nights: -2 / -3

### Exposure to Impacts

| Indicator                                                                 | Sub-Saharan Africa | Lower middle income |
|---------------------------------------------------------------------------|--------------------|---------------------|
| Land area below 5m (%) of land area                                        | 0.1                | 0.4                 | 1.7 |
| Population below 5m (%) of total                                          | 1.0                | 2.0                 | 6.5 |
| Population in urban agglomerations > 1 million (%)                        | 33                 | 14                  | 14  |
| Urban pop. growth (avg. annual %, 1990-2010)                              | 3.3                | 4.0                 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009)                  | 0.3                |                     |    |
| Annual freshwater withdrawals (% of internal resources)                   | 0.0                | 3.2                 | 18.7|
| Agricultural land under irrigation (% of total ag. land)                  | ..                 | ..                  |    |
| Population living below $1.25 a day (% of total)                          | 54.1               | 50.9                | ..  |
| Nationally terrestrial protected areas (% of total land area)             | 9.4                | 11.7                | 9.5 |
| Under-five mortality rate per (1,000)                                     | 93                 | 121                 | 69  |
| Child malnutrition, underweight (% of under age five)                     | 11.8               | 24.6                | 31.7|
| Malaria incidence rate (per 100,000 people)                              | 34,298             | 26,113              | 4,874|

### Resilience

| Access to improved sanitation (% of total pop.)                           | 30                 | 31                  | 45  |
| Access to improved water source (% of total pop.)                        | 71                 | 60                  | 84  |
| Cereal yield (kg, per hectare)                                           | 862                | 1,297               | 2,754|
| Access to electricity (% of total population)                            | 37.1               | 32.5                | 67.3|
| Paved roads (% of total roads)                                            | 7.1                | 18.3                | 29.3|
| Health workers (per 1,000 people)                                        | 0.9                | 1.2                 | 2.6 |
| Foreign direct investment, net inflows (% of GDP)                        | 23.7               | 3.6                 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions)            | 77                 | 11,957              | 81,789|
| Disaster risk reduction progress score (1-5 scale; 5 = best)             | ..                 |                     |    |
| Ease of doing business (ranking 1-183; 1 = best)                         | 181                |                     |    |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best)             | 2.6                |                     |    |
| Primary completion rate, total (% of relevant age group)                 | 74                 | 67                  | 88  |
| Ratio of girls to boys in primary & secondary school (%)                 | 92                 | 89                  | 93  |

### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons): 0.5
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $): 147.0
- CO₂ emissions, total (MtCO₂): 1.9
- GHG net emissions/removals by LUCF (2000, MtCO₂e): -82.1
- Methane (CH₄) emissions, total (MtCO₂e): 5.6
- Nitrous oxide (N₂O) emissions, total (MtCO₂e): 3.6
- Other GHG emissions, total (MtCO₂e): 0.0
- Energy use per capita (kilograms of oil equivalent): 356
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $): 99.1

### National-Level Actions

- Latest UNFCCC national communication: 11/27/2009 (2nd)
- Annex-I emissions reduction target: n/a
- NAMA submission: Yes
- NAPA submission: n/a
- Renewable energy target: ..

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: ..
- Issued Certified Emission Reductions (CERs) from CDM (thousands): ..
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
Cook Islands

Population (thousands) 20.3  GDP ($ millions) ..
Pop. growth (avg. ann. %, 1990-2010) 0.7  GNI per capita (Atlas $) ..

Climate
Average daily min/max temperature (1961-90, Celsius) 22 / 28
Projected annual temperature change (2045-65, Celsius) 1.3 to 1.7
Average annual precipitation (1961-90, mm) 1,925
Projected annual precipitation change (2045-65, mm) -57 to 174
Projected change in annual hot days/warm nights 11 / 16
Projected change in annual cool days/cold nights -3 / -3

Exposure to Impacts
Land area below 5m (% of land area) 87.9  2.5  1.8
Population below 5m (% of total) 62.0  10.3  6.5
Population in urban agglomerations > 1 million (%) .. .. 22
Urban pop. growth (avg. annual %, 1990-2010) .. 3.3  2.3
Droughts, floods, extreme temps (% pop. avg., 1990-2009) .. ..
Annual freshwater withdrawals (% of internal resources) .. 10.8  5.6
Agricultural land under irrigation (% of total ag. land) .. ..
Population living below $1.25 a day (% of total) .. 16.8  ..
Nationally terrestrial protected areas (% of total land area) 0.8  14.9  13.6
Under-five mortality rate (per 1,000) 9  24  20
Child malnutrition, underweight (% of under age five) .. 9.0  4.1
Malaria incidence rate (per 100,000 people) .. 525  80

Resilience
Access to improved sanitation (% of total pop.) 100  59  68
Access to improved water source (% of total pop.) 94  88  92
Cereal yield (kg. per hectare) 4,860  3,690
Access to electricity (% of total population) 90.8  98.0
Paved roads (% of total roads) 15.9  50.5
Health workers (per 1,000 people) 5.9  2.8  4.5
Foreign direct investment, net inflows (% of GDP) .. 3.0  2.7
Invest. in infrastructure w/private participation ($ millions) 14,638  26,166
Disaster risk reduction progress score (1-5 scale; 5 = best) 3.5
Ease of doing business (ranking 1-183; 1 = best) ..
Public sector mgmt & institutions avg. (1-6 scale; 6 = best) ..
Primary completion rate, total (% of relevant age group) 102  97  98
Ratio of girls to boys in primary & secondary school (%) 106  103  103

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 3.4  4.3  5.3
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) .. 827.1  659.4
CO₂ emissions, total (MtCO₂) 0.1  8,259  12,860
GHG net emissions/removals by LUCF (1994, MtCO₂e) -0.2 1,928  3,455
Methane (CH₄) emissions, total (MtCO₂e) 1,928  3,455
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 707  1,144
Other GHG emissions, total (MtCO₂e) .. 243
Energy use per capita (kilograms of oil equivalent) 1,436  1,848
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 259.5  227.1

National-Level Actions
Latest UNFCCC national communication 10/30/1999 (1st)
Annex-I emissions reduction target n/a
NAMA submission n/a
NAPA submission n/a
Renewable energy target n/a

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects ..
Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Costa Rica

| Population (millions) | GDP ($ billions) | GNI per capita (Atlas $) |
|----------------------|-----------------|--------------------------|
| 4.7                  | 34.6            | 6,550                    |

#### Climate

- **Average daily min/max temperature (1961-90, Celsius)**: 20/30
- **Projected annual temperature change (2045-65, Celsius)**: 1.6 to 2.3
- **Average annual precipitation (1961-90, mm)**: 2,926
- **Projected annual precipitation change (2045-65, mm)**: -239 to 60
- **Projected change in annual hot days/warm nights**: 12/27
- **Projected change in annual cool days/cold nights**: -3/-3

#### Exposure to Impacts

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|-----------------------------|---------------------|
| Population below 5m (% of land area) | 2.1 | 1.5 | 1.8 |
| Population below 5m (% of total) | 0.8 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 31 | 35 | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | 3.3 | 2.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.7 |
| Annual freshwater withdrawals (% of internal resources) | 2.4 | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 1.5 |
| Population living below $1.25 a day (% of total) | <2 | 8.1 |
| Nationally terrestrial protected areas (% of total land area) | 20.9 | 20.8 | 13.6 |
| Under-five mortality rate (per 1,000) | 10 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | 3.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | 51 | 206 | 80 |

#### Resilience

| Access to improved sanitation (% of total pop.) | 95 | 79 | 68 |
| Access to improved water source (% of total pop.) | 97 | 93 | 92 |
| Cereal yield (kg. per hectare) | 3,770 | 3,337 | 3,690 |
| Access to electricity (% of total population) | 99.3 | 93.4 | 98.0 |
| Paved roads (% of total roads) | 25.3 | 28.1 | 50.5 |
| Health workers (per 1,000 people) | 2.3 | 6.9 | 4.5 |
| Foreign direct investment, net inflows (% of GDP) | 4.1 | 2.3 | 2.7 |
| Invest. in infrastructure w/private participation ($ millions) | 144 | 33,064 | 26,166 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 4.5 |
| Ease of doing business (ranking 1-183; 1 = best) | 121 |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. |
| Ratio of girls to boys in primary & secondary school (%) | 102 | 102 | 103 |

#### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 1.8 | 2.8 | 5.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 171.0 | 285.6 | 659.4 |
| CO₂ emissions, total (MtCO₂) | 8.0 | 1,584 | 12,860 |
| GHG net emissions/removals by LUCF (2005, MtCO₂e) | -3.5 |
| Methane (CH₄) emissions, total (MtCO₂e) | 2.6 | 1,009 | 3,455 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 1.3 | 442 | 1,144 |
| Other GHG emissions, total (MtCO₂e) | 0.1 | 21 | 243 |
| Energy use per capita (kilograms of oil equivalent) | 1,067 | 1,245 | 1,848 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 106.1 | 130.6 | 227.1 |

#### National-Level Actions

- **Latest UNFCCC national communication**: 10/7/2009 (2nd)
- **Annex-I emissions reduction target**: n/a
- **NAMA submission**: Yes, with Goal
- **NAPA submission**: n/a
- **Renewable energy target**: ..

#### Carbon Markets

- **Hosted Clean Development Mechanism (CDM) projects**: 8
- **Issued Certified Emission Reductions (CERs) from CDM (thousands)**: 320
- **Hosted Joint Implementation (JI) projects**: n/a
- **Issued Emission Reduction Units (ERUs) from JI (thousands)**: n/a
## Côte d’Ivoire

### Population (millions) 19.7 GDP ($ billions) 22.8
Pop. growth (avg. ann. %, 1990–2010) 2.3 GNI per capita (Atlas $) 1,160

### Climate
- Average daily min/max temperature (1961–90, Celsius): 21 / 32
- Projected annual temperature change (2045–65, Celsius): 1.8 to 2.4
- Average annual precipitation (1961–90, mm): 1,348
- Projected annual precipitation change (2045–65, mm): -125 to 73
- Projected change in annual hot days/warm nights: 7 / 23
- Projected change in annual cool days/cold nights: -2 / -2

### Exposure to Impacts

| Country data | Sub-Saharan Africa | Lower middle income |
|--------------|--------------------|---------------------|
| Land area below 5m (% of land area) | 0.2 | 0.4 | 1.7 |
| Population below 5m (% of total) | 3.2 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 21 | 14 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.4 | 4.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | | |
| Annual freshwater withdrawals (% of internal resources) | 1.8 | 3.2 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 23.8 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 22.6 | 11.7 | 95 |
| Under-five mortality rate (per 1,000) | 123 | 121 | 69 |
| Child malnutrition, underweight (% of under age five) | 16.7 | 24.6 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 36,482 | 20,113 | 4,874 |

### Resilience
- Access to improved sanitation (% of total pop.): 23
- Access to improved water source (% of total pop.): 80
- Cereal yield (kg. per hectare): 1,900
- Access to electricity (% of total population): 47.3
- Paved roads (% of total roads): 7.9
- Health workers (per 1,000 people): 0.6
- Foreign direct investment, net inflows (% of GDP): 1.8
- Invest. in infrastructure w/private participation ($ millions): 319
- Disaster risk reduction progress score (1–5 scale; 5 = best): 2.5
- Ease of doing business (ranking 1–183; 1 = best): 167
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best): 2.4
- Primary completion rate, total (% of relevant age group): 46
- Ratio of girls to boys in primary & secondary school (%): 69

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons): 0.4
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $): 223.0
- CO₂ emissions, total (MtCO₂): 7.0
- GHG net emissions/removals by LUCF (2000, MtCO₂e): -18.4
- Methane (CH₄) emissions, total (MtCO₂e): 11.0
- Nitrous oxide (N₂O) emissions, total (MtCO₂e): 7.4
- Other GHG emissions, total (MtCO₂e): 0.0
- Energy use per capita (kilograms of oil equivalent): 535
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $): 317.2

### National-Level Actions
- Latest UNFCCC national communication: 4/26/2010 (2nd)
- Annex-I emissions reduction target: n/a
- NAMA submission: Yes
- NAPA submission: n/a
- Renewable energy target: ..

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects: 3
- Issued Certified Emission Reductions (CERs) from CDM (thousands): 0
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
### Croatia

| Population (millions) | 4.4 | GDP ($ billions) | 60.9 |
|-----------------------|-----|------------------|------|
| Pop. growth (avg. ann. %, 1990–2010) | -0.4 | GNI per capita (Atlas $) | 13,780 |

#### Climate

- **Average daily min/max temperature (1961-90, Celsius)**: 6 / 16
- **Projected annual temperature change (2045-65, Celsius)**: 1.9 to 2.9
- **Average annual precipitation (1961-90, mm)**: 1,113
- **Projected annual precipitation change (2045-65, mm)**: -112 to -2
- **Projected change in annual hot days/warm nights**: 3 / 6
- **Projected change in annual cool days/cold nights**: -2 / -2

#### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 3.0 | 2.2 |
| Population below 5m (% of total) | 3.4 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.0 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 0.4 | .. |
| Population living below $1.25 a day (% of total) | <2 | .. |
| Nationally terrestrial protected areas (% of total land area) | 7.3 | 13.4 |
| Under-five mortality rate (per 1,000) | 6 | 6 |
| Child malnutrition, underweight (% of under age five) | 1.0 | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

#### Resilience

| Access to improved sanitation (% of total pop.) | 99 | 100 |
| Access to improved water source (% of total pop.) | 99 | 100 |
| Cereal yield (kg, per hectare) | 6,117 | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 86.9 | 87.3 |
| Health workers (per 1,000 people) | 2.7 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 0.5 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | 719 | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 80 | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 97 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 102 | 100 |

#### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 5.3 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 303.5 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 23.3 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -8.7 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 3.9 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 2.9 | 813 |
| Other GHG emissions, total (MtCO₂e) | 0.1 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 1,965 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 120.6 | 147.0 |

#### National-Level Actions

- Latest UNFCCC national communication: ..
- Annex-I emissions reduction target (base year: 1990): 5%
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: ..

#### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: ..
- Issued Emission Reduction Units (ERUs) from JI (thousands): ..
### Cuba

| Population (millions) | GDP ($ billions) | GNI per capita (Atlas $) |
|-----------------------|------------------|--------------------------|
| 11.3                  | 62.7             | 5,520                    |

#### Climate
- Average daily min/max temperature (1961–90, Celsius): 20 / 30
- Projected annual temperature change (2045–65, Celsius): 1.4 to 1.8
- Average annual precipitation (1961–90, mm): 1,335
- Projected annual precipitation change (2045–65, mm): -108 to 39
- Projected change in annual hot days/warm nights: 11 / 18
- Projected change in annual cool days/cold nights: -2 / -2

#### Exposure to Impacts

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|----------------------------|---------------------|
| Land area below 5m (% of land area) | 12.7 | 1.5 | 1.8 |
| Population below 5m (% of total) | 10.0 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 19 | 35 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.5 | 2.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.7 |
| Annual freshwater withdrawals (% of internal resources) | 19.8 | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 6.2 | 20.8 | 13.6 |
| Under-five mortality rate (per 1,000) | 6 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 3.4 | 3.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | 206 | 80 |

#### Resilience
- Access to improved sanitation (% of total pop.) | 91 | 79 | 68 |
- Access to improved water source (% of total pop.) | 94 | 93 | 92 |
- Cereal yield (kg. per hectare) | 2,069 | 3,337 | 3,690 |
- Access to electricity (% of total population) | 97.0 | 93.4 | 98.0 |
- Paved roads (% of total roads) | 49.0 | 28.1 | 50.5 |
- Health workers (per 1,000 people) | 15.0 | 6.9 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | 0.0 | 2.3 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 60 | 33,064 | 26,166 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | 4.5 |
- Ease of doing business (ranking 1–183; 1 = best) | .. |
- Public sector mrgt & institutions avg. (1–6 scale; 6 = best) | .. |
- Primary completion rate, total (% of relevant age group) | 98 | 102 | 98 |
- Ratio of girls to boys in primary & secondary school (%) | 99 | 102 | 103 |

#### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 2.8 | 2.8 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 285.6 | 659.4 |
- CO₂ emissions, total (MtCO₂) | 31.4 | 1,584 | 12,860 |
- GHG net emissions/removals by LUCF (1996, MtCO₂e) | -21.7 |
- Methane (CH₄), emissions, total (MtCO₂e) | 9.5 | 1,009 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 6.4 | 442 | 1,144 |
- Other GHG emissions, total (MtCO₂e) | 0.1 | 21 | 243 |
- Energy use per capita (kilograms of oil equivalent) | 1,022 | 1,245 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 130.6 | 227.1 |

#### National-Level Actions
- Latest UNFCCC national communication | 9/28/2001 (1st) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | .. |
- NAPA submission | n/a |
- Renewable energy target | .. |

#### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | 2 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 171 |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
| Country data | High income |
|--------------|-------------|
| Population (thousands) | 142.7 |
| GDP ($ millions) | .. |
| Pop. growth (avg. ann. %, 1990–2010) | -0.1 |
| GNI per capita (Atlas $) | .. |
| **Climate** | |
| Average daily min/max temperature (1961–90, Celsius) | .. |
| Projected annual temperature change (2045–65, Celsius) | .. |
| Average annual precipitation (1961–90, mm) | .. |
| Projected annual precipitation change (2045–65, mm) | .. |
| Projected change in annual hot days/warm nights | .. |
| Projected change in annual cool days/cold nights | .. |
| **Exposure to Impacts** | |
| Land area below 5m (% of land area) | .. |
| Population below 5m (% of total) | .. |
| Population in urban agglomerations > 1 million (%) | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | .. |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. |
| Annual freshwater withdrawals (% of internal resources) | .. |
| Agricultural land under irrigation (% of total ag. land) | .. |
| Population living below $1.25 a day (% of total) | .. |
| Nationally terrestrial protected areas (% of total land area) | .. |
| Under-five mortality rate (per 1,000) | .. |
| Child malnutrition, underweight (% of under age five) | .. |
| Malaria incidence rate (per 100,000 people) | .. |
| **Resilience** | |
| Access to improved sanitation (% of total pop.) | .. |
| Access to improved water source (% of total pop.) | .. |
| Cereal yield (kg. per hectare) | .. |
| Access to electricity (% of total population) | .. |
| Paved roads (% of total roads) | .. |
| Health workers (per 1,000 people) | .. |
| Foreign direct investment, net inflows (% of GDP) | .. |
| Invest. in infrastructure w/private participation ($ millions) | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. |
| Ease of doing business (ranking 1–183; 1 = best) | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. |
| Primary completion rate, total (% of relevant age group) | .. |
| Ratio of girls to boys in primary & secondary school (%) | .. |
| **GHG Emissions and Energy Use** | |
| CO2 emissions per capita (metric tons) | .. |
| CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. |
| CO2 emissions, total (MtCO2) | .. |
| GHG net emissions/removals by LUCF (MtCO2e) | .. |
| Methane (CH4) emissions, total (MtCO2e) | .. |
| Nitrous oxide (N2O) emissions, total (MtCO2e) | .. |
| Other GHG emissions, total (MtCO2e) | .. |
| Energy use per capita (kilograms of oil equivalent) | .. |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. |
| **National-Level Actions** | |
| Latest UNFCCC national communication | .. |
| Annex-I emissions reduction target | .. |
| NAMA submission | .. |
| NAPA submission | .. |
| Renewable energy target | .. |
| **Carbon Markets** | |
| Hosted Clean Development Mechanism (CDM) projects | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. |
| Hosted Joint Implementation (JI) projects | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | .. |

The Little Data Book on Climate Change 2011
Cyprus

Population (millions) 1.1  GDP ($ billions) 25.0
Pop. growth (avg. ann. %, 1990-2010) 1.8  GNI per capita (Atlas $) 30,480

Climate
Average daily min/max temperature (1961-90, Celsius) 13 / 24
Projected annual temperature change (2045-65, Celsius) 1.7 to 2.3
Average annual precipitation (1961-90, mm) 498
Projected annual precipitation change (2045-65, mm) -98 to -44
Projected change in annual hot days/warm nights 4 / 7
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 6.4 | 2.2 |
| Population below 5m (% of total) | 9.7 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 2.1 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 24.5 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 20.8 | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 11.0 | 13.4 |
| Under-five mortality rate (per 1,000) | 4 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

Resilience

| Access to improved sanitation (% of total pop.) | 100 | 100 |
| Access to improved water source (% of total pop.) | 100 | 100 |
| Cereal yield (kg. per hectare) | 900 | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 64.6 | 87.3 |
| Health workers (per 1,000 people) | 6.3 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 23.4 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 40 | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 103 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 100 | 100 |

GHG Emissions and Energy Use

| CO2 emissions per capita (metric tons) | 7.9 | 11.9 |
| CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 410.2 | 354.4 |
| CO2 emissions, total (MtCO2) | 8.6 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO2e) | .. | .. |
| Methane (CH4) emissions, total (MtCO2e) | 0.6 | 1,539 |
| Nitrous oxide (N2O) emissions, total (MtCO2e) | 0.3 | 813 |
| Other GHG emissions, total (MtCO2e) | 0.2 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 2,298 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 121.4 | 147.0 |

National-Level Actions

| Latest UNFCCC national communication | .. |
| Annex-I emissions reduction target (base year: 1990) | 20% / 30% |
| NAMA submission | .. |
| NAPA submission | n/a |
| Renewable energy target | Yes |

Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | 8 |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 |
| Hosted Joint Implementation (JI) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
## Czech Republic

| Population (millions) | 10.5 | GDP ($ billions) | 192.2 | Pop. growth (avg. ann. %, 1990-2010) | 0.1 | GNI per capita (Atlas $) | 17,890 |
|-----------------------|------|-----------------|-------|-------------------------------------|-----|------------------------|--------|

### Climate
- Average daily min/max temperature (1961-90, Celsius): 3 / 12
- Projected annual temperature change (2045-65, Celsius): 1.9 to 2.8
- Average annual precipitation (1961-90, mm): 677
- Projected annual precipitation change (2045-65, mm): -43 to 55
- Projected change in annual hot days/warm nights: 3 / 5
- Projected change in annual cool days/cold nights: -1 / -2

### Exposure to Impacts

| Exposure to Impacts | Country data | High income |
|---------------------|--------------|-------------|
| Land area below 5m (% of land area) | 0.0 | 2.2 |
| Population below 5m (% of total) | 0.0 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 11 | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.0 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.2 | .. |
| Annual freshwater withdrawals (% of internal resources) | 13.6 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 0.3 | .. |
| Population living below $1.25 a day (% of total) | <2 | .. |
| Nationally terrestrial protected areas (% of total land area) | 15.1 | 13.4 |
| Under-five mortality rate (per 1,000) | 4 | 6 |
| Child malnutrition, underweight (% of under age five) | 2.1 | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

### Resilience
- Access to improved sanitation (% of total pop.): 98 / 100
- Access to improved water source (% of total pop.): 100 / 100
- Cereal yield (kg. per hectare): 5,074 / 5,445
- Access to electricity (% of total population): .. / ..
- Paved roads (% of total roads): 100.0 / 87.3
- Health workers (per 1,000 people): 12.2 / 10.7
- Foreign direct investment, net inflows (% of GDP): 3.5 / 1.8
- Invest. in infrastructure w/private participation ($ millions): .. / ..
- Disaster risk reduction progress score (1-5 scale; 5 = best): 2.8
- Ease of doing business (ranking 1–183; 1 = best): 64
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best): ..
- Primary completion rate, total (% of relevant age group): 99 / 97
- Ratio of girls to boys in primary & secondary school (%): 101 / 100

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 11.2 | 11.9 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 483.3 | 354.4 |
- CO₂ emissions, total (MtCO₂) | 117.0 | 13,285 |
- GHG net emissions/removals by LUCF (2009, MtCO₂e) | -6.9 | .. |
- Methane (CH₄) emissions, total (MtCO₂e) | 11.5 | 1,539 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 8.9 | 813 |
- Other GHG emissions, total (MtCO₂e) | 1.1 | 460 |
- Energy use per capita (kilograms of oil equivalent) | 4,022 | 4,944 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 178.3 | 147.0 |

### National-Level Actions
- Latest UNFCCC national communication: 11/30/2009 (5th)
- Annex-I emissions reduction target (base year: 1990): 20% / 30% (EU)
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: Yes

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects: ..
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: 58
- Issued Emission Reduction Units (ERUs) from JI (thousands): 607
Denmark

Population (millions) 5.5 GDP ($ billions) 310.4 Pop. growth (avg. ann., 1990-2010) 0.4 GNI per capita (Atlas $) 59,210

Climate
Average daily min/max temperature (1961-90, Celsius) 4 / 11 Projected annual temperature change (2045-65, Celsius) 1.6 to 2.5 Average annual precipitation (1961-90, mm) 703 Projected annual precipitation change (2045-65, mm) 21 to 87 Projected change in annual hot days/warm nights 3 / 5 Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts
Land area below 5m (% of land area) 17.7 Country data 2.2 High income
Population below 5m (% of total) 18.5
Population in urban agglomerations > 1 million (%) 21
Urban pop. growth (avg. annual %, 1990-2010) 0.5
Droughts, floods, extreme temps (% pop. avg., 1990-2009) 0.0
Annual freshwater withdrawals (% of internal resources) 17.4
Agricultural land under irrigation (% of total ag. land) 9.6
Population living below $1.25 a day (% of total) ..
Nationally terrestrial protected areas (% of total land area) 5.0
Under-five mortality rate (per 1,000) 4
Child malnutrition, underweight (% of under age five) ..
Malaria incidence rate (per 100,000 people) ..

Resilience
Access to improved sanitation (% of total pop.) 100
Access to improved water source (% of total pop.) 100
Cereal yield (kg. per hectare) 6,776 5,445
Access to electricity (% of total population) ..
Paved roads (% of total roads) 100.0 87.3
Health workers (per 1,000 people) 18.0
Foreign direct investment, net inflows (% of GDP) -0.2 1.8
Invest. in infrastructure w/private participation ($ millions) ..
Disaster risk reduction progress score (1-5 scale; 5 = best) ..
Public sector mgmt & institutions avg. (1-6 scale; 6 = best) ..
Ratio of girls to boys in primary & secondary school (%) 97
Primary completion rate, total (% of relevant age group) 102
Ratio of girls to boys in primary & secondary school (%) 100

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 8.4 11.9
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 246.4 354.4
CO₂ emissions, total (MtCO₂) 46.0 13,285
GHG net emissions/removals by LUCF (2009, MtCO₂e) -1.1
Methane (CH₄) emissions, total (MtCO₂e) 7.9 1,539
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 6.3
Other GHG emissions, total (MtCO₂e) 1.4 460
Energy use per capita (kilograms of oil equivalent) 3,550 4,944
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 108.9 147.0

National-Level Actions
Latest UNFCCC national communication 1/11/2010 (5th)
Annex-I emissions reduction target (base year: 1990) 20% / 30% (EU)
NAMA submission n/a
NAPA submission n/a
Renewable energy target Yes

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects n/a
Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a
Hosted Joint Implementation (JI) projects ..
Issued Emission Reduction Units (ERUs) from JI (thousands) ..
Exposure to Impacts

| Country data        | Middle East & N. Africa | Lower middle income |
|---------------------|-------------------------|---------------------|
| Land area below 5m (% of land area) | 2.6 | 1.4 | 1.7 |
| Population below 5m (% of total) | 7.6 | 9.7 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 20 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.0 | 2.5 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 6.8 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 6.3 | 121.9 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 18.8 | 3.6 | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.0 | 4.0 | 9.5 |
| Under-five mortality rate (per 1,000) | 91 | 34 | 69 |
| Child malnutrition, underweight (% of under age five) | 29.6 | 6.8 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 467 | .. | 4,874 |

Resilience

| Country data        | Middle East & N. Africa | Lower middle income |
|---------------------|-------------------------|---------------------|
| Access to improved sanitation (% of total pop.) | 56 | 84 | 45 |
| Access to improved water source (% of total pop.) | 92 | 87 | 84 |
| Cereal yield (kg. per hectare) | 1,111 | 2,512 | 2,754 |
| Access to electricity (% of total population) | .. | 92.9 | 67.3 |
| Paved roads (% of total roads) | 45.0 | 74.3 | 29.3 |
| Health workers (per 1,000 people) | 0.8 | 3.6 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 9.2 | 2.9 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 396 | 5,854 | 81,789 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 170 | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 2.8 | .. | .. |
| Primary completion rate, total (% of relevant age group) | 35 | 88 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 82 | 93 | 93 |

GHG Emissions and Energy Use

| Country data        | Middle East & N. Africa | Lower middle income |
|---------------------|-------------------------|---------------------|
| CO₂ emissions per capita (metric tons) | 0.6 | 3.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 302.5 | 604.6 | 529.3 |
| CO₂ emissions, total (MtCO₂) | 0.5 | 1,230 | 3,744 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | -0.6 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 287 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 74 | 687 |
| Other GHG emissions, total (MtCO₂e) | .. | 7 | 17 |
| Energy use per capita (kilograms of oil equivalent) | 170 | 1,399 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 87.3 | 213.9 | 217.9 |

National-Level Actions

| Country data        | Middle East & N. Africa | Lower middle income |
|---------------------|-------------------------|---------------------|
| Latest UNFCCC national communication | 6/2/2002 (1st) | .. | .. |
| Annex-I emissions reduction target | n/a | .. | .. |
| NAMA submission | .. | .. | .. |
| NAPA submission | Yes | .. | .. |
| Renewable energy target | .. | .. | .. |

Carbon Markets

| Country data        | Middle East & N. Africa | Lower middle income |
|---------------------|-------------------------|---------------------|
| Hosted Clean Development Mechanism (CDM) projects | .. | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | .. | .. |
| Hosted Joint Implementation (JI) projects | n/a | .. | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. | .. |
## Dominica

### Climate
- Average daily min/max temperature (1961–90, Celsius): 19 / 26
- Projected annual temperature change (2045–65, Celsius): 1.3 to 1.7
- Average annual precipitation (1961–90, mm): 3,436
- Projected annual precipitation change (2045–65, mm): -106 to 42
- Projected change in annual hot days/warm nights: 13 / 24
- Projected change in annual cool days/cold nights: -3 / -3

### Exposure to Impacts

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|-----------------------------|---------------------|
| Population below 5m (% of land area) | 9.4 | 1.5 | 1.8 |
| Population below 5m (% of total) | 10.4 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 35 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.3 | 2.0 | 2.3 |
| Droughts, floods, extreme temps (% temp. avg., 1990–2009) | .. | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 21.7 | 20.8 | 13.6 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | .. | 3.8 | 4.1 |
| Under-five mortality rate (per 1,000) | 12 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | 3.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | 206 | 206 | 80 |

### Resilience
- Access to improved sanitation (% of total pop.) | 81 | 79 | 68 |
- Access to improved water source (% of total pop.) | 95 | 93 | 92 |
- Cereal yield (kg. per hectare) | 1,437 | 3,337 | 3,690 |
- Access to electricity (% of total population) | .. | 93.4 | 98.0 |
- Paved roads (% of total roads) | 50.4 | 28.1 | 50.5 |
- Health workers (per 1,000 people) | .. | 6.9 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | 8.1 | 2.3 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 5 | 33,064 | 26,166 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1–183; 1 = best) | 65 | .. | .. |
- Public sector mgt & institutions avg. (1–6 scale; 6 = best) | 3.9 | .. | .. |
- Primary completion rate, total (% of relevant age group) | 89 | 102 | 98 |
- Ratio of girls to boys in primary & secondary school (%) | 102 | 102 | 103 |

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 1.9 | 2.8 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 214.5 | 285.6 | 659.4 |
- CO₂ emissions, total (MtCO₂) | 0.1 | 1,584 | 12,860 |
- GHG net emissions/removals by LUCF (1994, MtCO₂e) | -0.4 | .. | .. |
- Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,009 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 442 | 1,144 |
- Other GHG emissions, total (MtCO₂e) | .. | 21 | 243 |
- Energy use per capita (kilograms of oil equivalent) | 628 | 1,245 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 74.4 | 130.6 | 227.1 |

### National-Level Actions
- Latest UNFCCC national communication | 12/4/2001 (1st) | .. | .. |
- Annex-I emissions reduction target | n/a | .. | .. |
- NAMA submission | .. | .. | .. |
- NAPA submission | .. | .. | .. |
- Renewable energy target | .. | .. | .. |

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | .. | .. | .. |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | .. | .. |
- Hosted Joint Implementation (JI) projects | .. | .. | .. |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | n/a | n/a |
Dominican Republic

Population (millions) 9.9 GDP ($ billions) 51.6
Pop. growth (avg. ann. %, 1990-2010) 1.6 GNI per capita (Atlas $) 5,000

Climate
Average daily min/max temperature (1961-90, Celsius) 20 / 29
Projected annual temperature change (2045-65, Celsius) 1.5 to 1.8
Average annual precipitation (1961-90, mm) 1,410
Projected annual precipitation change (2045-65, mm) -128 to 30
Projected change in annual hot days/warm nights 12 / 24
Projected change in annual cool days/cold nights -3 / -3

Exposure to Impacts
Land area below 5m (% of land area) 4.1
Population below 5m (% of total) 3.0
Population in urban agglomerations > 1 million (%) 22
Urban pop. growth (avg. annual %, 1990-2010) 2.8
Droughts, floods, extreme temps (% pop. avg., 1990-2009) 0.1
Annual freshwater withdrawals (% of internal resources) 16.6
Agricultural land under irrigation (% of total ag. land) 9.0
Population living below $1.25 a day (% of total) 4.3
Nationally terrestrial protected areas (% of total land area) 22.1
Under-five mortality rate (per 1,000) 27
Child malnutrition, underweight (% of under age five) 3.4
Malaria incidence rate (per 100,000 people) 46

Resilience
Access to improved sanitation (% of total pop.) 83
Access to improved water source (% of total pop.) 86
Cereal yield (kg. per hectare) 2,846
Access to electricity (% of total population) 95.9
Paved roads (% of total roads) 49.4
Health workers (per 1,000 people) 3.7
Foreign direct investment, net inflows (% of GDP) 3.2
Invest. in infrastructure w/private participation ($ millions) 69
Disaster risk reduction progress score (1–5 scale; 5 = best) 3.0
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) ..
Ratio of girls to boys in primary & secondary school (%) 97

GHG Emissions and Energy Use
CO2 emissions per capita (metric tons) 2.2
CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) 289.4
CO2 emissions, total (MtCO2) 21.6
GHG net emissions/removals by LUCF (2000, MtCO2e) -18.8
Methane (CH4) emissions, total (MtCO2e) 6.1
Nitrous oxide (N2O) emissions, total (MtCO2e) 2.3
Other GHG emissions, total (MtCO2e) 0.0
Energy use per capita (kilograms of oil equivalent) 826
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 104.7

National-Level Actions
Latest UNFCCC national communication 11/17/2009 (2nd)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission n/a
Renewable energy target Yes

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 2
Issued Certified Emission Reductions (CERs) from CDM (thousands) 12
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
Ecuador

Population (millions) 14.5  GDP ($ billions) 58.9
Pop. growth (avg. ann. %, 1990–2010) 1.7  GNI per capita (Atlas $) 4,290

Climate
Average daily min/max temperature (1961–90, Celsius) 16 / 28
Projected annual temperature change (2045–65, Celsius) 1.8 to 2.3
Average annual precipitation (1961–90, mm) 2,087
Projected annual precipitation change (2045–65, mm) 22 to 273
Projected change in annual hot days/warm nights 10 / 24
Projected change in annual cool days/cold nights -3 / -3

Exposure to Impacts

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|---------------------------|---------------------|
| Land area below 5m (% of land area) | 2.0 | 1.5 | 1.8 |
| Population below 5m (% of total) | 7.3 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 31 | 35 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.7 | 2.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.3 | | |
| Annual freshwater withdrawals (% of internal resources) | 3.5 | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 12.6 | .. | .. |
| Population living below $1.25 a day (% of total) | 4.4 | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 25.1 | 20.8 | 13.6 |
| Under-five mortality rate (per 1,000) | 20 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 6.2 | 3.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | 63 | 206 | 80 |

Resilience

Access to improved sanitation (% of total pop.) 92 | 79 | 68
Access to improved water source (% of total pop.) 94 | 93 | 92
Cereal yield (kg. per hectare) 2,974 | 3,337 | 3,690
Access to electricity (% of total population) 92.2 | 93.4 | 98.0
Paved roads (% of total roads) 14.8 | 28.1 | 50.5
Health workers (per 1,000 people) 3.1 | 6.9 | 4.5
Foreign direct investment, net inflows (% of GDP) 0.3 | 2.3 | 2.7
Invest. in infrastructure w/private participation ($ millions) 239 | 33,064 | 26,166
Disaster risk reduction progress score (1–5 scale; 5 = best) 4.8
Ease of doing business (ranking 1–183; 1 = best) 130
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) .. |
Ratio of girls to boys in primary & secondary school (%) 106 | 102 | 98
Primary completion rate, total (% of relevant age group) 102 | 102 | 103

GHG Emissions and Energy Use

CO2 emissions per capita (metric tons) 1.9 | 2.8 | 5.3
CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) 263.2 | 285.6 | 659.4
CO2 emissions, total (MtCO2) 26.8 | 1,584 | 12,860
GHG net emissions/removals by LUCF (1990, MtCO2e) 46.9
Methane (CH4) emissions, total (MtCO2e) 17.1 | 1,009 | 3,455
Nitrous oxide (N2O) emissions, total (MtCO2e) 4.6 | 142 | 1,144
Other GHG emissions, total (MtCO2e) 0.1 | 21 | 243
Energy use per capita (kilograms of oil equivalent) 796 | 1,245 | 1,848
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 111.0 | 130.6 | 227.1

National-Level Actions

Latest UNFCCC national communication 11/15/2000 (1st)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission ..
Renewable energy target ..

Carbon Markets

Hosted Clean Development Mechanism (CDM) projects 17
Issued Certified Emission Reductions (CERs) from CDM (thousands) 1,184
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
| Country data | Middle East & N. Africa | Lower middle income |
|--------------|-------------------------|---------------------|
| Egypt, Arab Rep. | | |
| Population (millions) | 81.1 | 4.0 | 25.6 |
| GDP ($ billions) | 218.9 | 1.4 | 9.7 |
| GNI per capita (Atlas $) | 2,440 | 1.7 | 6.5 |
| Pop. growth (avg. ann. %, 1990–2010) | 1.8 | 25.6 | 9.7 |
| Population below 5m (% of total) | 1.7 | 20.0 | 14.0 |
| Population in urban agglomerations > 1 million (%) | 19.0 | 7.5 | 2.8 |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.0 | 1.7 | 2.5 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | 1.7 | 2.5 |
| Annual freshwater withdrawals (% of internal resources) | 3,788.9 | 121.9 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.6 | .. |
| Nationally terrestrial protected areas (% of total land area) | 5.9 | 4.0 | 9.5 |
| Under-five mortality rate (per 1,000) | 22.4 | 34.9 | 69.0 |
| Child malnutrition, underweight (% of under age five) | 6.8 | 6.8 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 0.0 | .. | 4,874 |
| Resilience | | | |
| Access to improved sanitation (% of total pop.) | 94 | 84 | 45 |
| Access to improved water source (% of total pop.) | 99 | 87 | 84 |
| Cereal yield (kg. per hectare) | 7,571 | 2,512 | 2,754 |
| Access to electricity (% of total population) | 99.6 | 92.9 | 67.3 |
| Paved roads (% of total roads) | 86.9 | 74.3 | 29.3 |
| Health workers (per 1,000 people) | 6.4 | 3.6 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 2.9 | 2.9 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 2,588 | 5,854 | 81,789 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 110 | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. | .. |
| Primary completion rate, total (% of relevant age group) | 96 | 88 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 96 | 93 | 93 |
| GHG Emissions and Energy Use | | | |
| CO₂ emissions per capita (metric tons) | 2.7 | 3.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 514.8 | 604.6 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 210.3 | 1,230 | 3,744 |
| GHG net emissions/removals by LUCF (1990, MtCO₂e) | -9.9 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 47.0 | 287 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 19.0 | 74 | 687 |
| Other GHG emissions, total (MtCO₂e) | 3.2 | 7 | 17 |
| Energy use per capita (kilograms of oil equivalent) | 903 | 1,399 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 164.5 | 213.9 | 217.9 |
| National-Level Actions | | | |
| Latest UNFCCC national communication | 6/7/2010 (2nd) | n/a | n/a |
| Annex-I emissions reduction target | n/a | n/a | n/a |
| NAMA submission | .. | .. | .. |
| NAPA submission | n/a | n/a | n/a |
| Renewable energy target | Yes | n/a | n/a |
| Carbon Markets | | | |
| Hosted Clean Development Mechanism (CDM) projects | 9 | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 7,012 | .. | .. |
| Hosted Joint Implementation (JI) projects | n/a | n/a | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | n/a | n/a |
El Salvador

| Country data | Latin America & the Carib. | Lower middle income |
|--------------|---------------------------|---------------------|
| Population (millions) | 6.2 | 2.5 | 1.7 |
| GDP ($ billions) | 21.8 | 1.5 | 1.7 |
| Pop. growth (avg. ann. %, 1990–2010) | 0.7 | 3.8 | 6.5 |
| Climate | | | |
| Average daily min/max temperature (1961–90, Celsius) | | 18 / 31 |
| Projected annual temperature change (2045–65, Celsius) | | 1.7 to 2.9 |
| Average annual precipitation (1961–90, mm) | | 1,724 |
| Projected annual precipitation change (2045–65, mm) | | -205 to 14 |
| Projected change in annual hot days/warm nights | | 9 / 25 |
| Projected change in annual cool days/cold nights | | -2 / -2 |

Exposure to Impacts

| Land area below 5m (% of land area) | 2.5 |
| Population below 5m (% of total) | 1.7 |
| Population in urban agglomerations > 1 million (%) | 3.8 |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.4 |
| Droughts, floods, extreme temps (% pop. avg. 1990–2009) | | 2.0 |
| Annual freshwater withdrawals (% of internal resources) | 7.8 |
| Agricultural land under irrigation (% of total ag. land) | 2.1 |
| Population living below $1.25 a day (% of total) | 5.1 |
| Nationally terrestrial protected areas (% of total land area) | 0.8 |
| Under-five mortality rate (per 1,000) | 16 |
| Child malnutrition, underweight (% of under age five) | 6.1 |
| Malnial incidence rate (per 100,000 people) | 1 |

Resilience

| Access to improved sanitation (% of total pop.) | 87 |
| Access to improved water source (% of total pop.) | 87 |
| Cereal yield (kg, per hectare) | 2,727 |
| Access to electricity (% of total population) | 86.4 |
| Paved roads (% of total roads) | 19.8 |
| Health workers (per 1,000 people) | 2.0 |
| Foreign direct investment, net inflows (% of GDP) | 0.0 |
| Invest. in infrastructure w/private participation ($ millions) | 152 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.3 |
| Ease of doing business (ranking 1–183; 1 = best) | 112 |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. |
| Primary completion rate, total (% of relevant age group) | 89 |
| Ratio of girls to boys in primary & secondary school (%) | 98 |

GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 1.0 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 158.9 |
| CO₂ emissions, total (MtCO₂) | 6.1 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | 3.9 |
| Methane (CH₄) emissions, total (MtCO₂e) | 3.1 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 1.4 |
| Other GHG emissions, total (MtCO₂e) | 0.1 |
| Energy use per capita (kilograms of oil equivalent) | 828 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 137.5 |

National-Level Actions

| Latest UNFCCC national communication | 4/10/2000 (1st) |
| Annex-I emissions reduction target | n/a |
| NAMA submission | .. |
| NAPA submission | n/a |
| Renewable energy target | .. |

Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | 6 |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 790 |
| Hosted Joint Implementation (JI) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
Equatorial Guinea

| Population (thousands) | 700.4 | GDP ($ billions) | 14.0 |
|------------------------|-------|-----------------|------|
| Pop. growth (avg. ann. %, 1990-2010) | 3.1 | GNI per capita (Atlas $) | 14,540 |

**Climate**

- Average daily min/max temperature (1961-90, Celsius): 21 / 29
- Projected annual temperature change (2045-65, Celsius): 1.8 to 2.1
- Average annual precipitation (1961-90, mm): 2,156
- Projected annual precipitation change (2045-65, mm): -16 to 129
- Projected change in annual hot days/warm nights: 13 / 27
- Projected change in annual cool days/cold nights: -3 / -3

**Exposure to Impacts**

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 0.9 | 2.2 |
| Population below 5m (% of total) | 2.6 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 3.8 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 0.1 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | 19.2 | 13.4 |
| Nationally terrestrial protected areas (% of total land area) | .. | .. |
| Under-five mortality rate (per 1,000) | 121 | 6 |
| Child malnutrition, underweight (% of under age five) | 10.6 | .. |
| Malaria incidence rate (per 100,000 people) | 27,726 | .. |

**Resilience**

| Access to improved sanitation (% of total pop.) | 51 | 100 |
| Access to improved water source (% of total pop.) | 43 | 100 |
| Cereal yield (kg. per hectare) | .. | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | .. | 87.3 |
| Health workers (per 1,000 people) | 0.8 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 5.0 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 155 | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 50 | 97 |
| Ratio of girls to boys in primary & secondary school (% of 15-24 years) | 83 | 100 |

**GHG Emissions and Energy Use**

| CO₂ emissions per capita (metric tons) | 7.3 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 234.6 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 4.8 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂) | .. | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂) | .. | 813 |
| Other GHG emissions, total (MtCO₂) | .. | 460 |
| Energy use per capita (kilograms of oil equivalent) | 2,732 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 94.9 | 147.0 |

**National-Level Actions**

- Latest UNFCCC national communication: ..
- Annex-I emissions reduction target: n/a
- NAMA submission: ..
- NAPA submission: ..
- Renewable energy target: ..

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects: 0
- Issued Certified Emission Reductions (CERs) from CDM (thousands): 0
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
### Eritrea

#### Population (millions) 5.3  GDP ($ billions) 2.1  Pop. growth (avg. ann. %, 1990-2010) 2.5  GNI per capita (Atlas $) 340

#### Climate

- Average daily min/max temperature (1961-90, Celsius) 19 / 32
- Projected annual temperature change (2045-65, Celsius) 2.1 to 2.7
- Average annual precipitation (1961-90, mm) 384
- Projected annual precipitation change (2045-65, mm) -55 to -26
- Projected change in annual hot days/warm nights 7 / 14
- Projected change in annual cool days/cold nights -2 / -2

#### Exposure to Impacts

| Country data | Sub-Saharan Africa | Low income |
|--------------|--------------------|------------|
| Land area below 5m (% of land area) | 3.1 | 0.4 | 0.7 |
| Population below 5m (% of total) | 1.2 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | .. | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990-2010) | 4.1 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 7.3 | | |
| Annual freshwater withdrawals (% of internal resources) | 20.8 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 5.0 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 61 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 34.5 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 762 | 26,113 | 16,659 |

#### Resilience

- Access to improved sanitation (% of total pop.) | 14 | 31 | 35 |
- Access to improved water source (% of total pop.) | 61 | 60 | 63 |
- Cereal yield (kg, per hectare) | 500 | 1,297 | 2,047 |
- Access to electricity (% of total population) | 32.0 | 32.5 | 23.0 |
- Paved roads (% of total roads) | 21.8 | 18.3 | 14.1 |
- Health workers (per 1,000 people) | 0.6 | 1.2 | 0.7 |
- Foreign direct investment, net inflows (% of GDP) | 2.6 | 3.6 | 3.2 |
- Invest. in infrastructure w/private participation ($ millions) | 40 | 11,957 | 4,471 |
- Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) | 180 | | |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 2.7 | | |
- Primary completion rate, total (% of relevant age group) | 48 | 67 | 65 |
- Ratio of girls to boys in primary & secondary school (%) | 77 | 89 | 91 |

#### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons) | 0.1 | 0.8 | 0.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 171.0 | 428.6 | 270.2 |
- CO₂ emissions, total (MtCO₂) | 0.4 | 685 | 219 |
- GHG net emissions/removals by LUCF (1994, MtCO₂e) | 1.7 | | |
- Methane (CH₄) emissions, total (MtCO₂e) | 2.5 | 590 | 436 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 1.2 | 334 | 209 |
- Other GHG emissions, total (MtCO₂e) | 0.0 | .. | .. |
- Energy use per capita (kilograms of oil equivalent) | 142 | 689 | 365 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 288.2 | 308.4 | 303.9 |

#### National-Level Actions

- Latest UNFCCC national communication | 9/16/2002 (1st) | | |
- Annex-I emissions reduction target | n/a | | |
- NAMA submission | Yes | | |
- NAPA submission | Yes | | |
- Renewable energy target | .. | | |

#### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects | .. | | |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | | |
- Hosted Joint Implementation (JI) projects | n/a | | |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | | |
## Exposure to Impacts

| Land area below 5m (% of land area) | 3.4 | 2.2 |
| Population below 5m (% of total) | 7.2 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. ann. %, 1990–2010) | -0.9 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 1.2 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | .. |
| Nationally terrestrial protected areas (% of total land area) | 20.0 | 13.4 |
| Under-five mortality rate (per 1,000) | 5 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

## Resilience

| Access to improved sanitation (% of total pop.) | 95 | 100 |
| Access to improved water source (% of total pop.) | 98 | 100 |
| Cereal yield (kg, per hectare) | 2,761 | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 28.8 | 87.3 |
| Health workers (per 1,000 people) | 10.2 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 8.2 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 24 | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 100 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 101 | 100 |

## GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 13.6 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 731.7 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 18.3 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -7.0 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 2.1 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 0.9 | 813 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 4,085 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 249.8 | 147.0 |

## National-Level Actions

| Latest UNFCCC national communication | 2/12/2010 (5th) |
| Annex-I emissions reduction target (base year: 1990) | 20% / 30% (EU) |
| NAMA submission | n/a |
| NAPA submission | n/a |
| Renewable energy target | Yes |

## Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
| Hosted Joint Implementation (JI) projects | 12 |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | 0 |
Population (millions)  82.9  GDP ($ billions)  29.7  GNI per capita (Atlas $)  390

**Climate**
- Average daily min/max temperature (1961–90, Celsius)  16 / 29
- Projected annual temperature change (2045–65, Celsius)  2.1 to 2.5
- Average annual precipitation (1961–90, mm)  848
- Projected annual precipitation change (2045–65, mm)  -42 to 79
- Projected change in annual hot days/warm nights  7 / 21
- Projected change in annual cool days/cold nights  -2 / -3

**Exposure to Impacts**

| Country data | Sub-Saharan Africa | Low income |
|--------------|-------------------|------------|
| Land area below 5m (% of land area) | 0.7 | 0.4 | 0.7 |
| Population below 5m (% of total) | 0.4 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | 4 | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.4 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 3.3 | | |
| Annual freshwater withdrawals (% of internal resources) | 4.6 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | 0.5 | .. | .. |
| Population living below $1.25 a day (% of total) | 39.0 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 18.4 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 106 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 34.6 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 11,509 | 26,113 | 16,859 |

**Resilience**
- Access to improved sanitation (% of total pop.) | 12 | 31 | 35 |
- Access to improved water source (% of total pop.) | 38 | 60 | 63 |
- Cereal yield (kg. per hectare) | 1,677 | 1,297 | 2,047 |
- Access to electricity (% of total population) | 17.0 | 32.5 | 23.0 |
- Paved roads (% of total roads) | 13.7 | 18.3 | 14.1 |
- Health workers (per 1,000 people) | 0.3 | 1.2 | 0.7 |
- Foreign direct investment, net inflows (% of GDP) | 0.6 | 3.6 | 3.2 |
- Invest. in infrastructure w/private participation ($ millions) | 4 | 11,957 | 4,471 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1–183; 1 = best) | 111 | | |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 3.2 | | |
- Primary completion rate, total (% of relevant age group) | 55 | 67 | 65 |
- Ratio of girls to boys in primary & secondary school (%) | 88 | 89 | 91 |

**GHG Emissions and Energy Use**
- CO₂ emissions per capita (metric tons) | 0.1 | 0.8 | 0.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 109.9 | 428.6 | 270.2 |
- CO₂ emissions, total (MtCO₂) | 7.1 | 685 | 219 |
- GHG net emissions/removals by LUCF (1995, MtCO₂e) | -9.9 | | |
- Methane (CH₄) emissions, total (MtCO₂e) | 52.2 | 590 | 436 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 30.5 | 334 | 209 |
- Other GHG emissions, total (MtCO₂e) | 0.0 | .. | .. |
- Energy use per capita (kilograms of oil equivalent) | 402 | 689 | 365 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 464.6 | 308.4 | 303.9 |

**National-Level Actions**
- Latest UNFCCC national communication | 10/16/2001 (1st) | | |
- Annex-I emissions reduction target | n/a | | |
- NAMA submission | Yes | | |
- NAPA submission | Yes | | |
- Renewable energy target | .. | | |

**Carbon Markets**
- Hosted Clean Development Mechanism (CDM) projects | 1 | | |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 | | |
- Hosted Joint Implementation (JI) projects | n/a | | |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | | |
Faeroe Islands

| Country data | High income |
|--------------|-------------|
| Population (thousands) | 48.7 | GDP ($ billions) | 2.2 |
| Pop. growth (avg. ann. %, 1990-2010) | 0.1 | GNI per capita (Atlas $) | .. |

**Climate**

- Average daily min/max temperature (1961-90, Celsius): 4 / 8
- Projected annual temperature change (2045-65, Celsius): 0.6 to 1.6
- Average annual precipitation (1961-90, mm): 1,578
- Projected annual precipitation change (2045-65, mm): 16 to 95
- Projected change in annual hot days/warm nights: 4 / 5
- Projected change in annual cool days/cold nights: -1 / -1

**Exposure to Impacts**

| Land area below 5m (% of land area) | 14.5 | Population below 5m (% of total) | 11.0 |
| Population in urban agglomerations > 1 million (%) | .. | Urban pop. growth (avg. %, 1990-2010) | 1.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | Annual freshwater withdrawals (% of internal resources) | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | Population living below $1.25 a day (% of total) | .. |
| Nationally terrestrial protected areas (% of total land area) | 13.4 | Under-five mortality rate (per 1,000) | 6 |
| Child malnutrition, underweight (% of under age five) | .. | Malaria incidence rate (per 100,000 people) | .. |
| Resilience | .. | .. |
| Access to improved sanitation (% of total pop.) | .. | 100 |
| Access to improved water source (% of total pop.) | .. | 100 |
| Cereal yield (kg, per hectare) | .. | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Pavement (% of total roads) | .. | 87.3 |
| Health workers (per 1,000 people) | .. | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | .. | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 97 | Ratio of girls to boys in primary & secondary school (%) | 100 |

**GHG Emissions and Energy Use**

| CO₂ emissions per capita (metric tons) | 14.6 | CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 354.4 |
| CO₂ emissions, total (MtCO₂) | 0.7 | CO₂ emissions, total (MtCO₂) | 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | Methane (CH₄) emissions, total (MtCO₂e) | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 813 | Other GHG emissions, total (MtCO₂e) | 460 |
| Energy use per capita (kilograms of oil equivalent) | 4,944 | Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 147.0 |

**National-Level Actions**

- Latest UNFCCC national communication: n/a
- Annex-I emissions reduction target: n/a
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: ..

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a

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The Little Data Book on Climate Change 2011
## Fiji

| Population (thousands) | GDP ($ billions) | GNI per capita (Atlas $) |
|------------------------|-----------------|--------------------------|
| 860.6                  | 3.0             | 3,580                    |

### Climate
- Average daily min/max temperature (1961-90, Celsius): 21 / 28
- Projected annual temperature change (2045-65, Celsius): 1.3 to 1.7
- Average annual precipitation (1961-90, mm): 2,593
- Projected annual precipitation change (2045-65, mm): -93 to 271
- Projected change in annual hot days/warm nights: 10 / 18
- Projected change in annual cool days/cold nights: -3 / -3

### Exposure to Impacts

| Country data                     | East Asia & Pacific | Lower middle income |
|----------------------------------|---------------------|---------------------|
| Land area below 5m (% of land area) | 11.4 2.5 1.7       |                     |
| Population below 5m (% of total)  | 11.0 10.3 6.5       |                     |
| Population in urban agglomerations > 1 million (%) | .. .. 14          |                     |
| Urban pop. growth (avg. annual %, 1990-2010) | 2.1 3.3 2.8    |                     |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 1.7              |                     |
| Annual freshwater withdrawals (% of internal resources) | 0.3 10.8 18.7   |                     |
| Agricultural land under irrigation (% of total ag. land) | .. ..             |                     |
| Population living below $1.25 a day (% of total) | .. 16.8 ..       |                     |
| Nationally terrestrial protected areas (% of total land area) | 1.3 14.9 9.5  |                     |
| Under-five mortality rate (per 1,000) | 17 24 69        |                     |
| Child malnutrition, underweight (% of under age five) | .. 9.0 31.7     |                     |
| Malaria incidence rate (per 100,000 people) | .. 525 4,874   |                     |

### Resilience
- Access to improved sanitation (% of total pop.) | .. 59 45
- Access to improved water source (% of total pop.) | .. 88 84
- Cereal yield (kg. per hectare) | 2.458 4,860 2,754
- Access to electricity (% of total population) | .. 90.8 67.3
- Paved roads (% of total roads) | 49.2 15.9 29.3
- Health workers (per 1,000 people) | 2.4 2.8 2.6
- Foreign direct investment, net inflows (% of GDP) | 4.3 3.0 2.4
- Invest. in infrastructure w/private participation ($ millions) | 14,638 81,789
- Disaster risk reduction progress score (1–5 scale; 5 = best) | 2.8
- Ease of doing business (ranking 1–183; 1 = best) | 77
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | ..
- Primary completion rate, total (% of relevant age group) | 92 97 88
- Ratio of girls to boys in primary & secondary school (%) | 103 103 93

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 1.5 4.3 1.6
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 348.5 827.1 523.9
- CO₂ emissions, total (MtCO₂) | 1.3 8,259 3,744
- GHG net emissions/removals by LUCF (1994, MtCO₂e) | -7.7
- Methane (CH₄) emissions, total (MtCO₂e) | .. 1,928 1,705
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. 707 687
- Other GHG emissions, total (MtCO₂e) | .. .. 17
- Energy use per capita (kilograms of oil equivalent) | 627 1,436 680
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 145.9 259.5 217.9

### National-Level Actions
- Latest UNFCCC national communication | 5/18/2006 (1st)
- Annex-I emissions reduction target | n/a
- NAMA submission | ..
- NAPA submission | n/a
- Renewable energy target | Yes

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | 2
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 36
- Hosted Joint Implementation (JI) projects | n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a
### Finland

| Population (millions) | GDP ($ billions) | GNI per capita (Atlas $) |
|-----------------------|------------------|--------------------------|
| 5.4                   | 238.8            | 47,160                   |

#### Climate
- Average daily min/max temperature (1961-90, Celsius) 
  -2 / 6
- Projected annual temperature change (2045-65, Celsius) 
  2.4 to 3.7
- Average annual precipitation (1961-90, mm) 
  536
- Projected annual precipitation change (2045-65, mm) 
  37 to 103
- Projected change in annual hot days/warm nights 
  2 / 4
- Projected change in annual cool days/cold nights 
  -2 / -2

#### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 1.1 | 2.2 |
| Population below 5m (% of total) | 4.4 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 21 | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.6 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 2.1 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 2.8 | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 9.1 | 13.4 |
| Under-five mortality rate (per 1,000) | 3 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

#### Resilience

| Country data | High income |
|--------------|-------------|
| Access to improved sanitation (% of total pop.) | 100 | 100 |
| Access to improved water source (% of total pop.) | 100 | 100 |
| Cereal yield (kg. per hectare) | 3,760 | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 65.5 | 87.3 |
| Health workers (per 1,000 people) | 2.7 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 1.8 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 3.5 | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 11 | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 97 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 102 | 100 |

#### GHG Emissions and Energy Use

| Country data | High income |
|--------------|-------------|
| CO₂ emissions per capita (metric tons) | 10.6 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 316.3 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 56.5 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -40.6 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 9.7 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 7.1 | 813 |
| Other GHG emissions, total (MtCO₂e) | 0.8 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 6,639 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 210.6 | 147.0 |

#### National-Level Actions

| Country data | High income |
|--------------|-------------|
| Latest UNFCCC national communication | 12/23/2009 (5th) | .. |
| Annex-I emissions reduction target (base year: 1990) | 20% / 30% (EU) | .. |
| NAMA submission | n/a | .. |
| NAPA submission | n/a | .. |
| Renewable energy target | Yes | .. |

#### Carbon Markets

| Country data | High income |
|--------------|-------------|
| Hosted Clean Development Mechanism (CDM) projects | n/a | 3 |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a | 245 |
| Hosted Joint Implementation (JI) projects | n/a | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | 3 | .. |
### France

| Population (millions) | GDP ($ billions) | GNI per capita (Atlas $) |
|-----------------------|------------------|--------------------------|
| 64.9                  | 2,560.0          | 42,390                   |

#### Climate
- Average daily min/max temperature (1961–90, Celsius): 7 / 15
- Projected annual temperature change (2045–65, Celsius): 1.6 to 2.6
- Average annual precipitation (1961–90, mm): 867
- Projected annual precipitation change (2045–65, mm): -112 to 2
- Projected change in annual hot days/warm nights: 4 / 6
- Projected change in annual cool days/cold nights: -1 / -1

#### Exposure to Impacts

| Land area below 5m (% of land area) | Country data | High income |
|-------------------------------------|--------------|-------------|
| 2.1                                 | 2.2          |
| Population below 5m (% of total)    | 4.0          |
| Population in urban agglomerations > 1 million (%) | 22          |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.8          |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0          |
| Annual freshwater withdrawals (% of internal resources) | 15.9          |
| Agricultural land under irrigation (% of total ag. land) | 5.1          |
| Population living below $1.25 a day (% of total) | ..          |
| Nationally terrestrial protected areas (% of total land area) | 15.1          |
| Under-five mortality rate (per 1,000) | 4.0          |
| Child malnutrition, underweight (% of under age five) | ..          |
| Malaria incidence rate (per 100,000 people) | ..          |

#### Resilience

| Access to improved sanitation (% of total pop.) | 100          |
| Access to improved water source (% of total pop.) | 100          |
| Cereal yield (kg. per hectare) | 7,456 | 5,445 |
| Access to electricity (% of total population) | ..          |
| Paved roads (% of total roads) | 100.0 | 87.3 |
| Health workers (per 1,000 people) | 8.9 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 1.3 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 29          |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 98.0 | 97.0 |
| Ratio of girls to boys in primary & secondary school (%) | 100 | 100 |

#### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 5.9 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 193.5 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 377.0 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -63.9 | 1,539 |
| Methane (CH₄) emissions, total (MtCO₂e) | 77.3 | 813 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 49.1 | 460 |
| Other GHG emissions, total (MtCO₂e) | 15.5 | 4,944 |
| Energy use per capita (kilograms of oil equivalent) | 4,073 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 137.4 | 147.0 |

#### National-Level Actions

| Latest UNFCCC national communication | 2/8/2010 (5th) |
| Annex-I emissions reduction target (base year: 1990) | 20% / 30% (EU) |
| NAMA submission | n/a |
| NAPA submission | n/a |
| Renewable energy target | Yes |

#### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
| Hosted Joint Implementation (JI) projects | 17 |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | 3,535 |
# French Polynesia

| Population (thousands) | 270.8 | GDP ($) millions | .. |
|------------------------|-------|-----------------|----|
| Pop. growth (avg. ann. %, 1990-2010) | 1.6 | GNI per capita (Atlas $) | .. |

## Climate

| Exposure to Impacts | Land area below 5m (% of land area) | 37.6 | 2.2 |
|---------------------|-------------------------------------|------|-----|
| Population below 5m (% of total) | 19.8 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 1.2 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.4 | 13.4 |
| Under-five mortality rate (per 1,000) | .. | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

## Resilience

| Resilience | Access to improved sanitation (% of total pop.) | 98 | 100 |
|------------|-----------------------------------------------|----|-----|
| Access to improved water source (% of total pop.) | 100 | 100 |
| Cereal yield (kg. per hectare) | .. | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | .. | 87.3 |
| Health workers (per 1,000 people) | 1.7 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | .. | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1-183; 1 = best) | .. | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | .. | 97 |
| Ratio of girls to boys in primary & secondary school (%) | .. | 100 |

## GHG Emissions and Energy Use

| GHG Emissions and Energy Use | CO₂ emissions per capita (metric tons) | 3.4 | 11.9 |
|-----------------------------|---------------------------------------|-----|-----|
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 354.4 |
| CO₂ emissions, total (MtCO₂) | 0.9 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 813 |
| Other GHG emissions, total (MtCO₂e) | .. | 460 |
| Energy use per capita (kilograms of oil equivalent) | .. | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 147.0 |

## National-Level Actions

| National-Level Actions | Latest UNFCCC national communication | n/a |
|------------------------|-------------------------------------|-----|
| Annex-I emissions reduction target | n/a |
| NAMA submission | n/a |
| NAPA submission | n/a |
| Renewable energy target | .. |

## Carbon Markets

| Carbon Markets | Hosted Clean Development Mechanism (CDM) projects | n/a |
|----------------|-----------------------------------------------|-----|
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
| Hosted Joint Implementation (JI) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
## Gabon

| Population (millions) | GDP ($ billions) | GNI per capita (Atlas $) |
|-----------------------|------------------|--------------------------|
| 1.5                   | 13.0             | 7,740                    |

### Climate

- Average daily min/max temperature (1961–90, Celsius): 21 / 29
- Projected annual temperature change (2045–65, Celsius): 1.8 to 2.2
- Average annual precipitation (1961–90, mm): 1,831
- Projected annual precipitation change (2045–65, mm): -51 to 148
- Projected change in annual hot days/warm nights: 14 / 27
- Projected change in annual cool days/cold nights: -3 / -3

### Exposure to Impacts

| Country data | Sub-Saharan Africa | Upper middle income |
|--------------|--------------------|---------------------|
| Land area below 5m (% of land area) | 0.5 | 0.4 | 1.8 |
| Population below 5m (% of total) | 5.9 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 14 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.5 | 4.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 0.1 | 3.2 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 4.8 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 14.9 | 11.7 | 13.6 |
| Under-five mortality rate (per 1,000) | 74 | 121 | 20 |
| Child malnutrition, underweight (% of under age five) | 8.8 | 24.6 | 4.1 |
| Malaria incidence rate (per 100,000 people) | 29,451 | 26,113 | 80 |

### Resilience

- Access to improved sanitation (% of total pop.) | 33 | 31 | 68 |
- Access to improved water source (% of total pop.) | 87 | 60 | 92 |
- Cereal yield (kg. per hectare) | 2,389 | 1,297 | 3,690 |
- Access to electricity (% of total population) | 36.7 | 32.5 | 98.0 |
- Paved roads (% of total roads) | 10.2 | 18.3 | 50.5 |
- Health workers (per 1,000 people) | 5.3 | 1.2 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | 1.3 | 3.6 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 125 | 11,957 | 26,166 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1–183; 1 = best) | 156 | .. | .. |
- Public sector mgt & institutions avg. (1–6 scale; 6 = best) | .. | .. | .. |
- Primary completion rate, total (% of relevant age group) | 70 | 67 | 98 |
- Ratio of girls to boys in primary & secondary school (%) | 96 | 89 | 103 |

### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons) | 1.7 | 0.8 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 126.8 | 428.6 | 659.4 |
- CO₂ emissions, total (MtCO₂) | 2.5 | 685 | 12,860 |
- GHG net emissions/removals by LUCF (1994, MtCO₂e) | -500.9 | .. | .. |
- Methane (CH₄) emissions, total (MtCO₂e) | 8.2 | 590 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 0.5 | 334 | 1,144 |
- Other GHG emissions, total (MtCO₂e) | 0.0 | .. | .. |
- Energy use per capita (kilograms of oil equivalent) | 1,214 | 689 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 93.3 | 308.4 | 227.1 |

### National-Level Actions

- Latest UNFCCC national communication | 12/22/2004 (1st) | .. | .. |
- Annex-I emissions reduction target | n/a | Yes | Yes |
- NAMA submission | n/a | Yes | Yes |
- NAPA submission | n/a | Yes | Yes |
- Renewable energy target | n/a | Yes | Yes |

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects | .. | .. | .. |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | .. | .. |
- Hosted Joint Implementation (JI) projects | n/a | .. | .. |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. | .. |
### Gambia, The

| Country data | Sub-Saharan Africa | Low income |
|--------------|--------------------|------------|
| Population (millions) | 1.7 | GDP ($ millions) | 806.5 |
| Pop. growth (avg. ann. %, 1990-2010) | 2.9 | GNI per capita (Atlas $) | 450 |

### Climate
- Average daily min/max temperature (1961-90, Celsius): 20 / 35
- Projected annual temperature change (2045-65, Celsius): 2.1 to 2.7
- Average annual precipitation (1961-90, mm): 837
- Projected annual precipitation change (2045-65, mm): -87 to 26
- Projected change in annual hot days/warm nights: 7 / 17
- Projected change in annual cool days/cold nights: -2 / -3

### Exposure to Impacts

| Land area below 5m (% of land area) | 16.6 |
| Population below 5m (% of total) | 33.4 |
| Population in urban agglomerations > 1 million (%) | ... |
| Urban pop. growth (avg. annual %, 1990-2010) | 5.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.2 |
| Annual freshwater withdrawals (% of internal resources) | 2.4 |
| Agricultural land under irrigation (% of total ag. land) | 3.7 |
| Population living below $1.25 a day (% of total) | 34.3 |
| Nationally terrestrial protected areas (% of total land area) | 1.5 |
| Under-five mortality rate (per 1,000) | 98 |
| Child malnutrition, underweight (% of under age five) | 15.8 |
| Malaria incidence rate (per 100,000 people) | 31,925 |

### Resilience

| Access to improved sanitation (% of total pop.) | 67 |
| Access to improved water source (% of total pop.) | 92 |
| Cereal yield (kg. per hectare) | 1,049 |
| Access to electricity (% of total population) | .. |
| Paved roads (% of total roads) | 19.3 |
| Health workers (per 1,000 people) | 0.6 |
| Foreign direct investment, net inflows (% of GDP) | 4.6 |
| Invest. in infrastructure w/private participation ($ millions) | 35 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 149 |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 3.0 |
| Primary completion rate, total (% of relevant age group) | 72 |
| Ratio of girls to boys in primary & secondary school (%) | 100 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 209.4 |
| CO₂ emissions, total (MtCO₂) | 0.4 |
| GHG net emissions/removals by LUCF (1993, MtCO₂e) | -50.0 |
| Methane (CH₄) emissions, total (MtCO₂e) | .. |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. |
| Other GHG emissions, total (MtCO₂e) | .. |
| Energy use per capita (kilograms of oil equivalent) | 84 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 71.5 |

### National-Level Actions

- Latest UNFCCC national communication: 10/6/2003 (1st)
- Annex-I emissions reduction target: n/a
- NAMA submission: ..
- NAPA submission: Yes
- Renewable energy target: ..

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: ..
- Issued Certified Emission Reductions (CERs) from CDM (thousands): ..
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
Georgia

Population (millions): 4.5
GDP ($ billions): 11.7
Pop. growth (avg. ann. %, 1990–2010): -0.4
GNI per capita (Atlas $): 2,690

Climate
Average daily min/max temperature (1961–90, Celsius): 0 / 11
Projected annual temperature change (2045–65, Celsius): 1.9 to 3.0
Average annual precipitation (1961–90, mm): 1,026
Projected annual precipitation change (2045–65, mm): -77 to -3
Projected change in annual hot days/warm nights: 3 / 6
Projected change in annual cool days/cold nights: -1 / -1

Exposure to Impacts

| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 1.4 | 2.5 | 1.7 |
| Population below 5m (% of total) | 3.3 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 25 | 18 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | -0.6 | 0.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.8 | | |
| Annual freshwater withdrawals (% of internal resources) | 2.8 | 6.5 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | 4.0 | .. | .. |
| Population living below $1.25 a day (% of total) | 15.3 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 3.7 | 7.5 | 9.5 |
| Under-five mortality rate (per 1,000) | 22 | 23 | 69 |
| Child malnutrition, underweight (% of under age five) | 2.3 | .. | 31.7 |
| Malan incidence rate (per 100,000 people) | 0 | .. | 4,874 |

Resilience
Access to improved sanitation (% of total pop.): 95
Access to improved water source (% of total pop.): 98
Cereal yield (kg. per hectare): 1,918
Access to electricity (% of total population): ..
Paved roads (% of total roads): 94.1
Health workers (per 1,000 people): 8.4
Foreign direct investment, net inflows (% of GDP): 4.7
Invest. in infrastructure w/private participation ($ millions): 61
Disaster risk reduction progress score (1–5 scale; 5 = best): 2.8
Public sector mgmt & institutions avg. (1–6 scale; 6 = best): 3.9
Ratio of girls to boys in primary & secondary school (%): 96

GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 1.2 | 7.7 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 262.8 | 708.0 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 5.2 | 3,110 | 3,744 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | 1.0 |
| Methane (CH₄) emissions, total (MtCO₂e) | 4.4 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 2.0 |
| Other GHG emissions, total (MtCO₂e) | 0.0 |
| Energy use per capita (kilograms of oil equivalent) | 723 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 167.4 |

National-Level Actions
Latest UNFCCC national communication: 10/2/2009 (2nd)
Annex-I emissions reduction target: n/a
NAMA submission: Yes
NAPA submission: n/a
Renewable energy target: ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects: 2
Issued Certified Emission Reductions (CERs) from CDM (thousands): 53
Hosted Joint Implementation (JI) projects: n/a
Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
Country data

Germany

Population (millions) 81.7 GDP ($ billions) 3,309.7
Pop. growth (avg. ann. %, 1990-2010) 0.1 GNI per capita (Atlas $) 43,290

Climate

Average daily min/max temperature (1961-90, Celsius) 5 / 12
Projected annual temperature change (2045-65, Celsius) 1.7 to 2.6
Average annual precipitation (1961-90, mm) 700
Projected annual precipitation change (2045-65, mm) -38 to 57
Projected change in annual hot days/warm nights 3 / 5
Projected change in annual cool days/cold nights -1 / -2

Exposure to Impacts

Land area below 5m (% of land area) 4.9 2.2
Population below 5m (% of total) 4.4 7.7
Population in urban agglomerations > 1 million (%) 8 .
Urban pop. growth (avg. annual %, 1990-2010) 0.2 1.0
Droughts, floods, extreme temps (% pop. avg., 1990-2009) 0.0 .
Annual freshwater withdrawals (% of internal resources) 36.6 10.4
Agricultural land under irrigation (% of total ag. land) .. ..
Population living below $1.25 a day (% of total) 40.5 13.4
Nationally terrestrial protected areas (% of total land area) 1.1 .
Under-five mortality rate (per 1,000) 4 6
Malaria incidence rate (per 100,000 people) .. ..

Resilience

Access to improved sanitation (% of total pop.) 100 100
Access to improved water source (% of total pop.) 100 100
Cereal yield (kg. per hectare) 7,201 5,445
Access to electricity (% of total population) .. ..
Paved roads (% of total roads) 100.0 87.3
Health workers (per 1,000 people) 14.4 10.7
Foreign direct investment, net inflows (% of GDP) 1.4 1.8
Invest. in infrastructure w/private participation ($ millions) .. ..
Disaster risk reduction progress score (1-5 scale; 5 = best) 4.3 .
Ease of doing business (ranking 1-183; 1 = best) 19 .
Public sector mgmt & institutions avg. (1-6 scale; 6 = best) .. ..
Primary completion rate, total (% of relevant age group) 104 97
Ratio of girls to boys in primary & secondary school (%) 96 100

GHG Emissions and Energy Use

CO₂ emissions per capita (metric tons) 9.6 11.9
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 283.8 354.4
CO₂ emissions, total (MtCO₂) 786.7 13,285
GHG net emissions/removals by LUCF (2009, MtCO₂e) 17.6 .
Methane (CH₄) emissions, total (MtCO₂e) 67.6 1,539
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 56.6 813
Other GHG emissions, total (MtCO₂e) 31.5 460
Energy use per capita (kilograms of oil equivalent) 4,057 4,944
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 121.1 147.0

National-Level Actions

Latest UNFCCC national communication 2/11/2010 (5th)
Annex-I emissions reduction target (base year: 1990) 20% / 30% (EU)
NAMA submission n/a
NAPA submission n/a
Renewable energy target Yes

Carbon Markets

Hosted Clean Development Mechanism (CDM) projects n/a
Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a
Hosted Joint Implementation (JI) projects 11
Issued Emission Reduction Units (ERUs) from JI (thousands) 2,087
### Climate

- **Average daily min/max temperature (1961–90, Celsius)**: 22 / 32
- **Projected annual temperature change (2045–65, Celsius)**: 1.8 to 2.4
- **Average annual precipitation (1961–90, mm)**: 1,187
- **Projected annual precipitation change (2045–65, mm)**: -159 to 83
- **Projected change in annual hot days/warm nights**: 7 / 22
- **Projected change in annual cool days/cold nights**: -2 / -2

### Exposure to Impacts

| Country data | Sub-Saharan Africa | Lower middle income |
|--------------|--------------------|---------------------|
| Land area below 5m (% of land area) | 0.8 | 0.4 | 1.7 |
| Population below 5m (% of total) | 2.3 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 17 | 14 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.2 | 4.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 1.0 | 1.0 | 1.0 |
| Annual freshwater withdrawals (% of internal resources) | 3.2 | 3.2 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 30.0 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 14.0 | 11.7 | 9.5 |
| Under-five mortality rate per 1,000 | 74 | 121 | 69 |
| Child malnutrition, underweight (% of under age five) | 14.3 | 24.6 | 31.7 |
| Malnutrition incidence rate (per 100,000 people) | 31,179 | 26,113 | 4,874 |

### Resilience

- **Access to improved sanitation (% of total pop.)**: 13 / 31 / 45
- **Access to improved water source (% of total pop.)**: 82 / 60 / 84
- **Cereal yield (kg. per hectare)**: 1,660 / 1,297 / 2,754
- **Access to electricity (% of total population)**: 60.5 / 32.5 / 67.3
- **Paved roads (% of total roads)**: 14.9 / 18.3 / 29.3
- **Health workers (per 1,000 people)**: 1.1 / 1.2 / 2.6
- **Foreign direct investment, net inflows (% of GDP)**: 8.1 / 3.6 / 2.4
- **Invest. in infrastructure w/private participation ($ millions)**: 290 / 11,957 / 81,789
- **Disaster risk reduction progress score (1–5 scale; 5 = best)**: 3.3
- **Ease of doing business (ranking 1–183; 1 = best)**: 63
- **Public sector mgmt & institutions avg. (1–6 scale; 6 = best)**: 3.7
- **Ratio of girls to boys in primary & secondary school (%)**: 83 / 67 / 88
- **Primary completion rate, total (% of relevant age group)**: 95 / 89 / 93

### GHG Emissions and Energy Use

- **CO₂ emissions per capita (metric tons)**: 0.4 / 0.8 / 1.6
- **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)**: 267.6 / 428.6 / 523.9
- **CO₂ emissions, total (MtCO₂)**: 8.6 / 685 / 3,744
- **GHG net emissions/removals by LUCF (1996, MtCO₂e)**: -19.0
- **Methane (CH₄) emissions, total (MtCO₂e)**: 9.0 / 590 / 1,705
- **Nitrous oxide (N₂O) emissions, total (MtCO₂e)**: 4.9 / 334 / 687
- **Other GHG emissions, total (MtCO₂e)**: 0.0 / .. / 17
- **Energy use per capita (kilograms of oil equivalent)**: 388 / 689 / 680
- **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)**: 275.0 / 308.4 / 217.9

### National-Level Actions

- **Latest UNFCCC national communication**: 5/2/2001 (1st)
- **Annex-I emissions reduction target**: n/a
- **NAMA submission**: Yes
- **NAPA submission**: n/a
- **Renewable energy target**: Yes

### Carbon Markets

- **Hosted Clean Development Mechanism (CDM) projects**: 0
- **Issued Certified Emission Reductions (CERs) from CDM (thousands)**: 0
- **Hosted Joint Implementation (JI) projects**: n/a
- **Issued Emission Reduction Units (ERUs) from JI (thousands)**: n/a
### Gibraltar

| Population (thousands) | 29.2 | GDP ($ millions) | .. |
|------------------------|------|-----------------|----|
| Pop. growth (avg. ann. %, 1990-2010) | 0.4 | GNI per capita (Atlas $) | .. |

#### Climate

- Average daily min/max temperature (1961-90, Celsius): 13 / 22
- Projected annual temperature change (2045-65, Celsius): 1.8 to 2.7
- Average annual precipitation (1961-90, mm): 618
- Projected annual precipitation change (2045-65, mm): -100 to -26
- Projected change in annual hot days/warm nights: 3 / 8
- Projected change in annual cool days/cold nights: -2 / -2

#### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 100.0 | 2.2 |
| Population below 5m (% of total) | 100.0 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | .. | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 4.7 | 13.4 |
| Under-five mortality rate (per 1,000) | .. | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

#### Resilience

- Access to improved sanitation (% of total pop.) | .. | 100 |
- Access to improved water source (% of total pop.) | .. | 100 |
- Cereal yield (kg. per hectare) | .. | 5,445 |
- Access to electricity (% of total population) | .. | .. |
- Paved roads (% of total roads) | .. | 87.3 |
- Health workers (per 1,000 people) | .. | 10.7 |
- Foreign direct investment, net inflows (% of GDP) | .. | 1.8 |
- Invest. in infrastructure w/private participation ($ millions) | .. | .. |
- Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) | .. | .. |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. |
- Primary completion rate, total (% of relevant age group) | .. | 97 |
- Ratio of girls to boys in primary & secondary school (%) | .. | 100 |

#### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 14.4 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 354.4 |
| CO₂ emissions, total (MtCO₂) | 0.4 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 0.0 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 0.0 | 813 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 5,597 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 147.0 |

#### National-Level Actions

- Latest UNFCCC national communication | n/a |
- Annex-I emissions reduction target | n/a |
- NAMA submission | n/a |
- NAPA submission | n/a |
- Renewable energy target | .. |

#### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects | n/a |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
Greece

Population (millions) 11.3 GDP ($ billions) 304.9
Pop. growth (avg. ann. %, 1990-2010) 0.5 GNI per capita (Atlas $) 27,260

Climate
Average daily min/max temperature (1961-90, Celsius) 11 / 20
Projected annual temperature change (2045-65, Celsius) 1.7 to 2.6
Average annual precipitation (1961-90, mm) 652
Projected annual precipitation change (2045-65, mm) -110 to -40
Projected change in annual hot days/warm nights 3 / 6
Projected change in annual cool days/cold nights -2 / -2

| Exposure to Impacts | Country data | High income |
|--------------------|--------------|-------------|
| Land area below 5m (% of land area) | 6.3 | 2.2 |
| Population below 5m (% of total) | 9.9 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 29 | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.8 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 12.2 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 16.9 | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 13.8 | 13.4 |
| Under-five mortality rate (per 1,000) | 4 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

| Resilience | Country data | High income |
|------------|--------------|-------------|
| Access to improved sanitation (% of total pop.) | 98 | 100 |
| Access to improved water source (% of total pop.) | 100 | 100 |
| Cereal yield (kg. per hectare) | 4,103 | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 91.8 | 87.3 |
| Health workers (per 1,000 people) | 9.7 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 0.7 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 100 | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 101 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 97 | 100 |

| GHG Emissions and Energy Use | Country data | High income |
|-----------------------------|--------------|-------------|
| CO₂ emissions per capita (metric tons) | 8.7 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 323.6 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 97.8 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -3.0 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 7.3 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 6.0 | 813 |
| Other GHG emissions, total (MtCO₂e) | 1.8 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 2,387 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 95.5 | 147.0 |

| National-Level Actions | | |
|------------------------|-----------------|-----------------|
| Latest UNFCCC national communication | 1/18/2010 (5th) | |
| Annex-I emissions reduction target (base year: 1990) | 20% / 30% (EU) | |
| NAMA submission | n/a | n/a |
| NAPA submission | n/a | n/a |
| Renewable energy target | Yes | Yes |

| Carbon Markets | | |
|----------------|-----------------|-----------------|
| Hosted Clean Development Mechanism (CDM) projects | n/a | n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a | n/a |
| Hosted Joint Implementation (JI) projects | .. | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | .. | .. |
### Greenland

| Population (thousands) | 56.5 | GDP ($ billions) | 1.3 |
|------------------------|------|-----------------|-----|
| Pop. growth (avg. ann. %, 1990-2010) | 0.1 | GNI per capita (Atlas $) | 26,020 |

#### Climate
- Average daily min/max temperature (1961-90, Celsius): -23 / -10
- Projected annual temperature change (2045-65, Celsius): 1.9 to 3.0
- Average annual precipitation (1961-90, mm): 585
- Projected annual precipitation change (2045-65, mm): 6 to 74
- Projected change in annual hot days/warm nights: 2 / 5
- Projected change in annual cool days/cold nights: -1 / -2

#### Exposure to Impacts

| Country | High income |
|---------|-------------|
| Land area below 5m (% of land area) | 16.3 | 2.2 |
| Population below 5m (% of total) | 52.2 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.3 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 40.5 | 13.4 |
| Under-five mortality rate (per 1,000) | .. | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

#### Resilience

| Access to improved sanitation (% of total pop.) | .. | 100 |
| Access to improved water source (% of total pop.) | .. | 100 |
| Cereal yield (kg. per hectare) | .. | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | .. | 87.3 |
| Health workers (per 1,000 people) | .. | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | .. | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1-183; 1 = best) | .. | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | .. | 97 |
| Ratio of girls to boys in primary & secondary school (%) | .. | 100 |

#### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 10.2 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 354.4 |
| CO₂ emissions, total (MtCO₂) | 0.6 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 813 |
| Other GHG emissions, total (MtCO₂e) | .. | 460 |
| Energy use per capita (kilograms of oil equivalent) | .. | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 147.0 |

#### National-Level Actions
- Latest UNFCCC national communication: n/a
- Annex-I emissions reduction target: n/a
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: ..

#### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
### Grenada

| Population (thousands) | GDP ($ millions) | GNI per capita (Atlas $) |
|------------------------|------------------|--------------------------|
| 104.5                  | 627.9            | 5,550                    |

#### Climate
- Average daily min/max temperature (1961–90, Celsius): 23 / 31
- Projected annual temperature change (2045–65, Celsius): 1.5 to 1.9
- Average annual precipitation (1961–90, mm): 1,535
- Projected annual precipitation change (2045–65, mm): -245 to 7
- Projected change in annual hot days/warm nights: 15 / 26
- Projected change in annual cool days/cold nights: -3 / -3

#### Exposure to Impacts

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|-----------------------------|---------------------|
| Land area below 5m (% of land area) | 21.7 | 1.5 | 1.8 |
| Population below 5m (% of total) | 21.7 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 35 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.2 | 2.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 0.0 | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 1.7 | 20.8 | 13.6 |
| Under-five mortality rate (per 1,000) | 11 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | 3.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | 206 | 80 |

#### Resilience
- Access to improved sanitation (% of total pop.): 97
- Access to improved water source (% of total pop.): 95
- Cereal yield (kg. per hectare): 989
- Access to electricity (% of total population): ..
- Pavement (% of total roads): 61.0
- Health workers (per 1,000 people): ..
- Foreign direct investment, net inflows (% of GDP): 10.1
- Invest. in infrastructure w/private participation ($ millions): 14
- Disaster risk reduction progress score (1–5 scale; 5 = best): ..
- Ease of doing business (ranking 1–183; 1 = best): 73
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best): 3.7
- Primary completion rate, total (% of relevant age group): 126
- Ratio of girls to boys in primary & secondary school (%): 97

#### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons): 2.4
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $): 290.2
- CO₂ emissions, total (MtCO₂): 0.2
- GHG net emissions/removals by LUCF (1994, MtCO₂e): -0.1
- Methane (CH₄) emissions, total (MtCO₂e): ..
- Nitrous oxide (N₂O) emissions, total (MtCO₂e): ..
- Other GHG emissions, total (MtCO₂e): ..
- Energy use per capita (kilograms of oil equivalent): 784
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $): 96.5

#### National-Level Actions
- Latest UNFCCC national communication: 11/21/2000 (1st)
- Annex-I emissions reduction target: n/a
- NAMA submission: ..
- NAPA submission: n/a
- Renewable energy target: ..

#### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects: ..
- Issued Certified Emission Reductions (CERs) from CDM (thousands): ..
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
Guam

Population (thousands) 179.9  GDP ($ millions) ..
GDP ($ millions) 1.5  GNI per capita (Atlas $) ..

Climate
Average daily min/max temperature (1961–90, Celsius) ..
Projected annual temperature change (2045–65, Celsius) 1.3 to 1.7
Average annual precipitation (1961–90, mm) ..
Projected annual precipitation change (2045–65, mm) -25 to 230
Projected change in annual hot days/warm nights 19 / 27
Projected change in annual cool days/cold nights -3 / -3

Exposure to Impacts
Land area below 5m (% of land area) 20.4  2.2
Population below 5m (% of total) 26.6  7.7
Population in urban agglomerations > 1 million (%) .. ..
Urban pop. growth (avg. annual %, 1990–2010) 1.6  1.0
Droughts, floods, extreme temps (% pop. avg., 1990–2009) .. ..
Annual freshwater withdrawals (% of internal resources) .. 10.4
Agricultural land under irrigation (% of total ag. land) .. ..
Population living below $1.25 a day (% of total) .. ..
Nationally terrestrial protected areas (% of total land area) 26.4  13.4
Under-five mortality rate (per 1,000) .. 6
Child malnutrition, underweight (% of under age five) .. ..
Malaria incidence rate (per 100,000 people) .. ..

Resilience
Access to improved sanitation (% of total pop.) 99 100
Access to improved water source (% of total pop.) 100 100
Cereal yield (kg. per hectare) 3,333 5,445
Access to electricity (% of total population) .. ..
Paved roads (% of total roads) .. 87.3
Health workers (per 1,000 people) .. 10.7
Foreign direct investment, net inflows (% of GDP) .. 1.8
Invest. in infrastructure w/private participation ($ millions) .. ..
Disaster risk reduction progress score (1–5 scale; 5 = best) .. ..
Ease of doing business (ranking 1–183; 1 = best) .. ..
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) .. ..
Primary completion rate, total (% of relevant age group) .. 97
Ratio of girls to boys in primary & secondary school (%) .. 100

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) .. 11.9
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) .. 354.4
CO₂ emissions, total (MtCO₂) .. 13,285
GHG net emissions/removals by LUCF (1994, MtCO₂e) .. ..
Methane (CH₄) emissions, total (MtCO₂e) .. 1,539
Nitrous oxide (N₂O) emissions, total (MtCO₂e) .. 813
Other GHG emissions, total (MtCO₂e) .. 460
Energy use per capita (kilograms of oil equivalent) .. 4,944
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) .. 147.0

National-Level Actions
Latest UNFCCC national communication n/a
Annex-I emissions reduction target n/a
NAMA submission n/a
NAPA submission n/a
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects n/a
Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
Guatemala

Population (millions) 14.4 GDP ($ billions) 41.2
Pop. growth (avg. ann. %, 1990–2010) 2.4 GNI per capita (Atlas $) 2,730

Climate
Average daily min/max temperature (1961–90, Celsius) 18 / 29
Projected annual temperature change (2045–65, Celsius) 1.7 to 2.8
Average annual precipitation (1961–90, mm) 2,712
Projected annual precipitation change (2045–65, mm) -186 to 22
Projected change in annual hot days/warm nights 8 / 22
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts
Country data Latin America & the Carib. Lower middle income
Land area below 5m (% of land area) 0.6 1.5 1.7
Population below 5m (% of total) 0.3 3.8 6.5
Population in urban agglomerations > 1 million (%) 8 35 14
Urban pop. growth (avg. annual %, 1990–2010) 3.3 2.0 2.8
Droughts, floods, extreme temps (% pop. avg., 1990–2009) 1.3
Annual freshwater withdrawals (% of internal resources) 2.7 2.0 18.7
Agricultural land under irrigation (% of total ag. land) .. .. ..
Population living below $1.25 a day (% of total) 11.7 8.1 ..
Nationally terrestrial protected areas (% of total land area) 30.6 20.8 9.5
Under-five mortality rate (per 1,000) 32 23 69
Child malnutrition, underweight (% of under age five) 17.7 3.8 31.7
Malaria incidence rate (per 100,000 people) 184 206 4,874

Resilience
Access to improved sanitation (% of total pop.) 81 79 45
Access to improved water source (% of total pop.) 94 93 84
Cereal yield (kg, per hectare) 1,966 3,337 2,754
Access to electricity (% of total population) 80.5 93.4 67.3
Paved roads (% of total roads) 34.5 28.1 29.3
Health workers (per 1,000 people) .. 6.9 2.6
Foreign direct investment, net inflows (% of GDP) 1.7 2.3 2.4
Invest. in infrastructure w/private participation ($ millions) 971 33,064 81,789
Disaster risk reduction progress score (1–5 scale; 5 = best) 3.3
Ease of doing business (ranking 1–183; 1 = best) 97
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) ..
Primary completion rate, total (% of relevant age group) 80 102 88
Ratio of girls to boys in primary & secondary school (%) 94 102 93

GHG Emissions and Energy Use
CO2 emissions per capita (metric tons) 0.9 2.8 1.6
CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) 199.4 285.6 523.9
CO2 emissions, total (MtCO2) 11.9 1,584 3,744
GHG net emissions/removals by LUCF (1990, MtCO2e) -39.5
Methane (CH4) emissions, total (MtCO2e) 8.3 1,009 1,705
Nitrous oxide (N2O) emissions, total (MtCO2e) 5.4 442 687
Other GHG emissions, total (MtCO2e) 0.5 21 17
Energy use per capita (kilograms of oil equivalent) 701 1,245 680
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 163.8 130.6 217.9

National-Level Actions
Latest UNFCCC national communication 2/1/2002 (1st)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission n/a
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 11
Issued Certified Emission Reductions (CERs) from CDM (thousands) 1,023
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Household Income and Expenditure

#### Income

| Item                        | Value       |
|-----------------------------|-------------|
| Total Income                | 10,000      |
| Wages and Salaries          | 7,000       |
| Self-employment             | 2,000       |
| Transfers                   | 300         |
| Other income                | 100         |

#### Expenditure

| Item                        | Value       |
|-----------------------------|-------------|
| Total Expenditure           | 9,500       |
| Food                        | 4,500       |
| Housing                     | 2,500       |
| Health                      | 1,000       |
| Transportation              | 500         |
| Recreation                  | 200         |
| Education                   | 150         |
| Personal care               | 100         |
| Other goods and services    | 200         |

#### Savings

| Item                        | Value       |
|-----------------------------|-------------|
| Total Savings               | 500         |
| Savings from Income         | 300         |
| Savings from Transfers      | 100         |
| Savings from Other sources | 50          |

### National-Level Actions

- **GHG Emissions and Energy Use**
  - CO₂ emissions per capita (metric tons): 0.1
  - CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $): 145.0
  - CO₂ emissions, total (MtCO₂): 1.4
  - GHG net emissions/removals by LUCF (1994, MtCO₂e): -17.6
  - Methane (CH₄) emissions, total (MtCO₂e): ..
  - Nitrous oxide (N₂O) emissions, total (MtCO₂e): ..
  - Other GHG emissions, total (MtCO₂e): ..
  - Energy use per capita (kilograms of oil equivalent): ..
  - Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $): ..

- **National-Level Actions**
  - Latest UNFCCC national communication: 10/28/2002 (1st)
  - Annex-I emissions reduction target: n/a
  - NAMA submission: ..
  - NAPA submission: Yes
  - Renewable energy target: ..

### Carbon Markets

- **Hosted Clean Development Mechanism (CDM) projects**: ..
- **Issued Certified Emission Reductions (CERs) from CDM (thousands)**: ..
- **Hosted Joint Implementation (JI) projects**: n/a
- **Issued Emission Reduction Units (ERUs) from JI (thousands)**: n/a
Guinea-Bissau

| Population (millions) | GDP ($ millions) | GNI per capita (Atlas $) |
|----------------------|-----------------|--------------------------|
| 1.5                  | 878.5           | 590                      |

| Pop. growth (avg. ann. %, 1990-2010) | 2.0 |

**Climate**

- Average daily min/max temperature (1961-90, Celsius): 21 / 33
- Projected annual temperature change (2045-65, Celsius): 1.8 to 2.2
- Average annual precipitation (1961-90, mm): 1,577
- Projected annual precipitation change (2045-65, mm): -69 to 130
- Projected change in annual hot days/warm nights: 10 / 22
- Projected change in annual cool days/cold nights: -3 / -3

**Exposure to Impacts**

| Land area below 5m (% of land area) | Population below 5m (% of total) | Population in urban agglomerations > 1 million (%) | Urban pop. growth (avg. annual %, 1990-2010) | Droughts, floods, extreme temps (% pop. avg., 1990-2009) | Annual freshwater withdrawals (% of internal resources) | Agricultural land under irrigation (% of total ag. land) | Population living below $1.25 a day (% of total) | Nationally terrestrial protected areas (% of total land area) | Under-five mortality rate (per 1,000) | Child malnutrition, underweight (% of under age five) | Malaria incidence rate (per 100,000 people) | Resilience | Access to improved sanitation (% of total pop.) | Access to improved water source (% of total pop.) | Cereal yield (kg. per hectare) | Access to electricity (% of total population) | Paved roads (% of total roads) | Health workers (per 1,000 people) | Foreign direct investment, net inflows (% of GDP) | Invest. in infrastructure w/private participation ($ millions) | Disaster risk reduction progress score (1-5 scale; 5 = best) | Ease of doing business (ranking 1-183; 1 = best) | Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | Primary completion rate, total (% of relevant age group) | Ratio of girls to boys in primary & secondary school (%) |
|------------------------|-----------------|------------------------|-----------------|--------------------------|-----------------|-----------------|------------------|------------------------|------------------|-------------------------------|-----------------------------|------------------------|------------------------|-------------------------------|------------------------|--------------------------|--------------------------|------------------------|---------------------------|--------------------------|--------------------------|------------------------|------------------------|
| 9.5                    | 0.4             | 0.7                    | 18.8            | 2.0                      | 5.1             | 14.1            | 11.0             | 108                    | 24.6             | 28.3                          | 16,108                      | 31                      | 35                     | 1,445                       | 1,297                   | 2,047                    | 23.0             | 1.7                      | 3.0                      | 2.6                      | 65                       | 89                       | 91                     |

**GHG Emissions and Energy Use**

- CO₂ emissions per capita (metric tons): 0.2
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $): 186.6
- CO₂ emissions, total (MtCO₂): 0.3
- GHG net emissions/removals by LUCF (MtCO₂): 0.8
- Methane (CH₄) emissions, total (MtCO₂): 186.6
- Nitrous oxide (N₂O) emissions, total (MtCO₂): 0.3
- Other GHG emissions, total (MtCO₂): 334
- Energy use per capita (kilograms of oil equivalent): 67
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $): 64.8

**National-Level Actions**

- Latest UNFCCC national communication: 12/1/2005 (1st)
- Annex-I emissions reduction target: n/a
- NAMA submission: Yes
- NAPA submission: Yes
- Renewable energy target: n/a

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
Guyana

Population (thousands) 754.5  GDP ($ billions) 2.2
Pop. growth (avg. ann. %, 1990–2010) 0.2  GNI per capita (Atlas $) 3,300

Climate
Average daily min/max temperature (1961–90, Celsius) 22 / 30
Projected annual temperature change (2045–65, Celsius) 1.9 to 3.0
Average annual precipitation (1961–90, mm) 2,387
Projected annual precipitation change (2045–65, mm) -158 to 72
Projected change in annual hot days/warm nights 9 / 26
Projected change in annual cool days/cold nights -3 / -3

Exposure to Impacts

| Country data | Latin America & the Carib. | Lower middle income |
|--------------|----------------------------|--------------------|
|   | Land area below 5m (% of land area) | 2.7 | 1.5 | 1.7 |
|   | Population below 5m (% of total) | 31.3 | 3.8 | 6.5 |
|   | Population in urban agglomerations > 1 million (%) | .. | 35 | 14 |
|   | Urban pop. growth (avg. annual %, 1990–2010) | 0.0 | 2.0 | 2.8 |
|   | Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 7.2 | |
|   | Annual freshwater withdrawals (% of internal resources) | 0.7 | 2.0 | 18.7 |
|   | Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
|   | Population living below $1.25 a day (% of total) | 8.7 | 8.1 | .. |
|   | Nationally terrestrial protected areas (% of total land area) | 4.9 | 20.8 | 9.5 |
|   | Under-five mortality rate (per 1,000) | 30 | 23 | 69 |
|   | Child malnutrition, underweight (% of under age five) | 10.8 | 3.8 | 31.7 |
|   | Malania incidence rate (per 100,000 people) | 2,194 | 206 | 4,874 |

Resilience

Access to improved sanitation (% of total pop.) 81 79 45
Access to improved water source (% of total pop.) 94 93 84
Cereal yield (kg. per hectare) 2,568 3,337 2,754
Access to electricity (% of total population) .. 93.4 67.3
Paved roads (% of total roads) 7.4 28.1 29.3
Health workers (per 1,000 people) 2.8 6.9 2.6
Foreign direct investment, net inflows (% of GDP) 8.4 2.3 2.4
Invest. in infrastructure w/private participation ($ millions) 26 33,064 81,789
Disaster risk reduction progress score (1–5 scale; 5 = best) .. .. ..
Ease of doing business (ranking 1–183; 1 = best) 114 .. ..
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) 3.0 .. ..
Primary completion rate, total (% of relevant age group) 109 102 88
Ratio of girls to boys in primary & secondary school (%) 100 102 93

GHG Emissions and Energy Use

CO2 emissions per capita (metric tons) 2.0 2.8 1.6
CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) 780.2 285.6 523.9
CO2 emissions, total (MtCO2) 1.5 1,584 3,744
GHG net emissions/removals by LUCF (1998, MtCO2e) -30.9 .. ..
Methane (CH4) emissions, total (MtCO2e) .. 1,009 1,705
Nitrous oxide (N2O) emissions, total (MtCO2e) .. 442 687
Other GHG emissions, total (MtCO2e) .. 21 17
Energy use per capita (kilograms of oil equivalent) 667 1,245 680
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 260.8 130.6 217.9

National-Level Actions

Latest UNFCCC national communication 5/16/2002 (1st)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission n/a
Renewable energy target ..

Carbon Markets

Hosted Clean Development Mechanism (CDM) projects 1
Issued Certified Emission Reductions (CERs) from CDM (thousands) 0
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Exposure to Impacts

| Country Data | Latin America & the Carib. | Low Income |
|--------------|-----------------------------|------------|
| Haiti        | 10.0                        | 1.7        |
| GDP ($ billions) | 6.7                      | GNI per capita (Atlas $) 650 |

### Climate

- **Average daily min/max temperature (1961–90, Celsius)**: 20 / 30
- **Projected annual temperature change (2045–65, Celsius)**: 1.5 to 1.8
- **Average annual precipitation (1961–90, mm)**: 1,440
- **Projected annual precipitation change (2045–65, mm)**: -125 to 34
- **Projected change in annual hot days/warm nights**: 13 / 23
- **Projected change in annual cool days/cold nights**: -3 / -3

### Resilience

- **Access to improved sanitation (% of total pop.)**: 17 / 79 / 35
- **Access to improved water source (% of total pop.)**: 63 / 93 / 63
- **Cereal yield (kg. per hectare)**: 991 / 3,337 / 2,047
- **Access to electricity (% of total population)**: 38.5 / 93.4 / 23.0
- **Paved roads (% of total roads)**: 24.3 / 28.1 / 14.1
- **Health workers (per 1,000 people)**: .. / 6.9 / 0.7
- **Foreign direct investment, net inflows (% of GDP)**: 2.2 / 2.3 / 3.2
- **Invest in infrastructure w/private participation ($ millions)**: 1 / 33,064 / 4,471
- **Disaster risk reduction progress score (1–5 scale; 5 = best)**: ..
- **Ease of doing business (ranking 1–183; 1 = best)**: 174
- **Public sector mgmt & institutions avg. (1–6 scale; 6 = best)**: 2.5
- **Primary completion rate, total (% of relevant age group)**: .. / 102 / 65
- **Ratio of girls to boys in primary & secondary school (%)**: .. / 102 / 91

### GHG Emissions and Energy Use

- **CO₂ emissions per capita (metric tons)**: 0.3 / 2.8 / 0.3
- **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)**: 238.9 / 285.6 / 270.2
- **CO₂ emissions, total (MtCO₂)**: 2.4 / 1,584 / 219
- **GHG net emissions/removals by LUCF (1994, MtCO₂-e)**: 1.0
- **Methane (CH₄) emissions, total (MtCO₂-e)**: 4.0 / 1,009 / 436
- **Nitrous oxide (N₂O) emissions, total (MtCO₂-e)**: 1.4 / 442 / 209
- **Other GHG emissions, total (MtCO₂-e)**: 0.0 / 21 / ..
- **Energy use per capita (kilograms of oil equivalent)**: 263 / 1,245 / 365
- **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)**: 247.5 / 130.6 / 303.9

### National-Level Actions

- **Latest UNFCCC national communication**: 1/3/2002 (1st)
- **Annex-I emissions reduction target**: n/a
- **NAMA submission**: ..
- **NAPA submission**: Yes
- **Renewable energy target**: ..

### Carbon Markets

- **Hosted Clean Development Mechanism (CDM) projects**: ..
- **Issued Certified Emission Reductions (CERs) from CDM (thousands)**: ..
- **Hosted Joint Implementation (JI) projects**: n/a
- **Issued Emission Reduction Units (ERUs) from JI (thousands)**: n/a
Population (millions) 7.6  GDP ($ billions) 15.4
Pop. growth (avg. ann. %, 1990–2010) 2.2  GNI per capita (Atlas $) 1,880

Climate
Average daily min/max temperature (1961–90, Celsius) 19 / 28
Projected annual temperature change (2045–65, Celsius) 1.6 to 2.6
Average annual precipitation (1961–90, mm) 1,976
Projected annual precipitation change (2045–65, mm) -204 to 15
Projected change in annual hot days/warm nights 10 / 25
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts
| Country data | Latin America & the Carib. | Lower middle income |
|--------------|-----------------------------|---------------------|
| Land area below 5m (% of land area) | 3.0 | 1.5 | 1.7 |
| Population below 5m (% of total) | 2.2 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 14 | 35 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.2 | 2.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 1.3 | | |
| Annual freshwater withdrawals (% of internal resources) | 1.2 | 2.0 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 23.3 | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 18.2 | 20.8 | 9.5 |
| Under-five mortality rate (per 1,000) | 24 | 23 | 69 |
| Child malnutrition, underweight (% of under age five) | 8.6 | 3.8 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 335 | 206 | 4,874 |

Resilience
Access to improved sanitation (% of total pop.) 71 79 45
Access to improved water source (% of total pop.) 86 93 84
Cereal yield (kg. per hectare) 1,752 3,337 2,754
Access to electricity (% of total population) 70.3 93.4 67.3
Paved roads (% of total roads) 20.4 28.1 29.3
Health workers (per 1,000 people) 1.9 6.9 2.6
Foreign direct investment, net inflows (% of GDP) 5.2 2.3 2.4
Invest. in infrastructure w/private participation ($ millions) 321 33,064 81,789
Disaster risk reduction progress score (1-5 scale; 5 = best) 3.8
Ease of doing business (ranking 1-183; 1 = best) 128
Public sector mgmt & institutions avg. (1-6 scale; 6 = best) 3.3
Primary completion rate, total (% of relevant age group) 90 102 88
Ratio of girls to boys in primary & secondary school (%) 107 102 93

GHG Emissions and Energy Use
| CO₂ emissions per capita (metric tons) | 1.2 | 2.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 326.6 | 285.6 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 8.7 | 1,584 | 3,744 |
| GHG net emissions/removals by LUCF (1995, MtCO₂e) | 4.6 | | |
| Methane (CH₄) emissions, total (MtCO₂e) | 5.2 | 1,009 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 2.9 | 442 | 687 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | 21 | 17 |
| Energy use per capita (kilograms of oil equivalent) | 592 | 1,245 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 169.2 | 130.6 | 217.9 |

National-Level Actions
Latest UNFCCC national communication 11/15/2000 (1st)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission n/a
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 19
Issued Certified Emission Reductions (CERs) from CDM (thousands) 568
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
## Exposure to Impacts

| Country        | High income | Country data |
|----------------|-------------|--------------|
| Population below 5m (% of land area) | 24.6 | 2.2 |
| Population below 5m (% of total) | 26.2 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 100 | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.1 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 6 |
| Nationally terrestrial protected areas (% of total land area) | 41.8 | 13.4 |
| Under-five mortality rate (per 1,000) | .. | .. |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

## Resilience

| Country        | High income | Country data |
|----------------|-------------|--------------|
| Access to improved sanitation (% of total pop.) | .. | 100 |
| Access to improved water source (% of total pop.) | .. | 100 |
| Cereal yield (kg. per hectare) | .. | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 100.0 | 87.3 |
| Health workers (per 1,000 people) | .. | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 30.7 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 2 | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 93 | 97 |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 102 | 100 |

## GHG Emissions and Energy Use

| Country        | High income | Country data |
|----------------|-------------|--------------|
| CO₂ emissions per capita (metric tons) | 5.5 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 136.2 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 38.6 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 2.8 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 0.4 | 813 |
| Other GHG emissions, total (MtCO₂e) | 0.1 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 2,133 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 54.2 | 147.0 |

## National-Level Actions

| Country        | High income | Country data |
|----------------|-------------|--------------|
| Latest UNFCCC national communication | n/a | .. |
| Annex-I emissions reduction target | n/a | .. |
| NAMA submission | n/a | .. |
| NAPA submission | n/a | .. |
| Renewable energy target | .. | .. |

## Carbon Markets

| Country        | High income | Country data |
|----------------|-------------|--------------|
| Hosted Clean Development Mechanism (CDM) projects | n/a | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a | .. |
| Hosted Joint Implementation (JI) projects | n/a | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. |

## Climate

| Country        | High income | Country data |
|----------------|-------------|--------------|
| Average daily min/max temperature (1961–90, Celsius) | 19 / 26 | .. |
| Projected annual temperature change (2045–65, Celsius) | 1.4 to 1.9 | .. |
| Average annual precipitation (1961–90, mm) | 2,240 | .. |
| Projected annual precipitation change (2045–65, mm) | -83 to 73 | .. |
| Projected change in annual hot days/warm nights | 7 / 10 | .. |
| Projected change in annual cool days/cold nights | -1 / -1 | .. |

## GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons): 5.5
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $): 136.2
- CO₂ emissions, total (MtCO₂): 38.6
- GHG net emissions/removals by LUCF (MtCO₂e): ..
- Methane (CH₄) emissions, total (MtCO₂e): 2.8
- Nitrous oxide (N₂O) emissions, total (MtCO₂e): 0.4
- Other GHG emissions, total (MtCO₂e): 0.1
- Energy use per capita (kilograms of oil equivalent): 2,133
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $): 54.2

## National-Level Actions

- Latest UNFCCC national communication: n/a
- Annex-I emissions reduction target: n/a
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: ..

## Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
### Exposure to Impacts

|                                | Country data | High income |
|--------------------------------|--------------|-------------|
| Land area below 5m (% of land area) | 0.0          | 2.2         |
| Population below 5m (% of total)      | 0.0          | 7.7         |
| Population in urban agglomerations > 1 million (%) | 17           | ..          |
| Urban pop. growth (avg. ann. %, 1990–2010) | 0.0          | 1.0         |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.1          | ..          |
| Annual freshwater withdrawals (% of internal resources) | 89.6         | 10.4        |
| Agricultural land under irrigation (% of total ag. land) | 1.8          | ..          |
| Population living below $1.25 a day (% of total) | <2           | ..          |
| Nationally terrestrial protected areas (% of total land area) | 5.1          | 13.4        |
| Under-five mortality rate (per 1,000) | 6            | 6           |
| Child malnutrition, underweight (% of under age five) | ..           | ..          |
| Malaria incidence rate (per 100,000 people) | ..           | ..          |

### Resilience

|                                | Country data | High income |
|--------------------------------|--------------|-------------|
| Access to improved sanitation (% of total pop.) | 100          | 100         |
| Access to improved water source (% of total pop.) | 100          | 100         |
| Cereal yield (kg. per hectare)  | 4,712        | 5,445       |
| Access to electricity (% of total population) | ..           | ..          |
| Paved roads (% of total roads)     | 37.7         | 87.3        |
| Health workers (per 1,000 people)  | 9.4          | 10.7        |
| Foreign direct investment, net inflows (% of GDP) | -32.2       | 1.8         |
| Invest. in infrastructure w/private participation ($ millions) | 2,645       | ..          |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | ..           | ..          |
| Ease of doing business (ranking 1–183; 1 = best) | 51           | ..          |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | ..           | ..          |
| Primary completion rate, total (% of relevant age group) | 95           | 97          |
| Ratio of girls to boys in primary & secondary school (%) | 99           | 100         |

### GHG Emissions and Energy Use

|                                | Country data | High income |
|--------------------------------|--------------|-------------|
| CO₂ emissions per capita (metric tons) | 5.4          | 11.9        |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 312.1        | 354.4       |
| CO₂ emissions, total (MtCO₂) | 54.6         | 13,285      |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -3.0         | ..          |
| Methane (CH₄) emissions, total (MtCO₂e) | 7.8          | 1,539       |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 7.0          | 813         |
| Other GHG emissions, total (MtCO₂e) | 1.6          | 460         |
| Energy use per capita (kilograms of oil equivalent) | 2,542        | 4,944       |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 153.9        | 147.0       |

### National-Level Actions

- **Latest UNFCCC national communication**: 12/10/2009 (5th)
- **Annex-I emissions reduction target (base year: 1990)**: 20% / 30% (EU)
- **NAMA submission**: n/a
- **NAPA submission**: n/a
- **Renewable energy target**: Yes

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: 11
- Issued Emission Reduction Units (ERUs) from JI (thousands): 1,321
## Iceland

| Population (thousands) | GDP ($ billions) | GNI per capita (Atlas $) |
|------------------------|------------------|--------------------------|
| 317.4                  | 12.6             | 33,990                   |

### Climate

- Average daily min/max temperature (1961–90, Celsius): -1/5
- Projected annual temperature change (2045–65, Celsius): 0.9 to 2.3
- Average annual precipitation (1961–90, mm): 978
- Projected annual precipitation change (2045–65, mm): -1 to 101
- Projected change in annual hot days/warm nights: 3/6
- Projected change in annual cool days/cold nights: -1/-1

### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 4.4 | 2.2 |
| Population below 5m (% of total) | 13.1 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.2 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 0.1 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | 9.7 | 13.4 |
| Nationally terrestrial protected areas (% of total land area) | .. | .. |
| Under-five mortality rate (per 1,000) | .. | .. |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

### Resilience

- Access to improved sanitation (% of total pop.): 100
- Access to improved water source (% of total pop.): 100
- Cereal yield (kg. per hectare): .. 5,445
- Access to electricity (% of total population): ..
- Paved roads (% of total roads): 36.6 87.3
- Health workers (per 1,000 people): 20.4 10.7
- Foreign direct investment, net inflows (% of GDP): 23.4 1.8
- Invest. in infrastructure w/private participation ($ millions): ..
- Disaster risk reduction progress score (1–5 scale; 5 = best): 9
- Ease of doing business (ranking 1–183; 1 = best): 100
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best): 98 97
- Ratio of girls to boys in primary & secondary school (%): 102 100

### GHG Emissions and Energy Use

| GHG emissions per capita (metric tons) | CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | CO₂ emissions, total (MtCO₂) | GHG net emissions/removals by LUCF (2009, MtCO₂e) | Methane (CH₄) emissions, total (MtCO₂e) | Nitrous oxide (N₂O) emissions, total (MtCO₂e) | Other GHG emissions, total (MtCO₂e) | Energy use per capita (kilograms of oil equivalent) | Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) |
|---------------------------------------|--------------------------------------------------------|-----------------------------|---------------------------------------------|--------------------------------------|-----------------------------------------------|----------------------------------------|--------------------------------------------------|--------------------------------------------------|
| 7.0                                   | 191.5                                                  | 2.2                         | 0.7                                         | 0.4                                  | 0.4                                           | 0.2                                    | 16,876                                           | 512.0                                           |
| 11.9                                  | 354.4                                                  | 13,285                      | 1,539                                       | 813                                  | 460                                           |                                        | 4,944                                            | 147.0                                            |

### National-Level Actions

- Latest UNFCCC national communication: 3/12/2010 (5th)
- Annex-I emissions reduction target (base year: 1990): 30%
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: ..

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: ..
- Issued Emission Reduction Units (ERUs) from JI (thousands): ..
| Exposure to Impacts                              | Country data | South Asia | Lower middle income |
|-------------------------------------------------|--------------|------------|---------------------|
| Land area below 5m (% of land area)             | 1.4          | 1.5        | 1.7                 |
| Population below 5m (% of total)                | 3.8          | 4.4        | 6.5                 |
| Population in urban agglomerations > 1 million (%) | 13           | 13         | 14                  |
| Urban pop. growth (avg. annual %, 1990-2010)     | 2.4          | 2.7        | 2.8                 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 4.4          |            |                     |
| Annual freshwater withdrawals (% of internal resources) | 47.8         | 50.6       | 18.7                |
| Agricultural land under irrigation (% of total ag. land) | 35.1         | ..         | ..                  |
| Population living below $1.25 a day (% of total) | 41.6         | 40.3       | ..                  |
| Nationally terrestrial protected areas (% of total land area) | 5.3         | 6.1        | 9.5                 |
| Under-five mortality rate (per 1,000)            | 63           | 67         | 69                  |
| Child malnutrition, underweight (% of under age five) | 43.5         | 42.5       | 31.7                |
| Malaria incidence rate (per 100,000 people)      | 1,124        | 1,127      | 4,874               |

| Resilience                                      |              |            |                     |
| Access to improved sanitation (% of total pop.)  | 31           | 36         | 45                  |
| Access to improved water source (% of total pop.) | 88           | 87         | 84                  |
| Cereal yield (kg. per hectare)                  | 2,572        | 2,728      | 2,754               |
| Access to electricity (% of total population)    | 66.3         | 62.1       | 67.3                |
| Paved roads (% of total roads)                   | 49.3         | 58.9       | 29.3                |
| Health workers (per 1,000 people)               | 1.9          | 1.7        | 2.6                 |
| Foreign direct investment, net inflows (% of GDP) | 1.4          | 1.3        | 2.4                 |
| Invest. in infrastructure w/private participation ($ millions) | 71,898       | 73,548     | 81,789              |
| Disaster risk reduction progress score (1-5 scale: 5 = best) | 3.3          |            |                     |
| Ease of doing business (ranking 1-183; 1 = best) | 132          |            |                     |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 3.6          |            |                     |
| Primary completion rate, total (% of relevant age group) | 95           | 86         | 88                  |
| Ratio of girls to boys in primary & secondary school (%) | 92           | 92         | 93                  |

| GHG Emissions and Energy Use                    |              |            |                     |
| CO₂ emissions per capita (metric tons)          | 1.5          | 1.3        | 1.6                 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 549.8        | 504.6      | 523.9               |
| CO₂ emissions, total (MtCO₂)                    | 1,742.7      | 1,970      | 3,744               |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | 14.3         |            |                     |
| Methane (CH₄) emissions, total (MtCO₂e)         | 584.0        | 846        | 1,705               |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e)   | 212.9        | 268        | 687                 |
| Other GHG emissions, total (MtCO₂e)             | 8.4          | 9          | 17                  |
| Energy use per capita (kilograms of oil equivalent) | 585          | 532        | 680                 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 195.4        | 193.5      | 217.9               |

| National-Level Actions                          |              |            |                     |
| Latest UNFCCC national communication            | 6/22/2004 (1st) |          |                     |
| Annex-I emissions reduction target              | n/a          |            |                     |
| NAMA submission                                 | Yes, with Goal |          |                     |
| NAPA submission                                 | n/a          |            |                     |
| Renewable energy target                         | Yes          |            |                     |

| Carbon Markets                                  |              |            |                     |
| Hosted Clean Development Mechanism (CDM) projects | 727          |            |                     |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 118,184      |            |                     |
| Hosted Joint Implementation (II) projects       | n/a          |            |                     |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a          |            |                     |
## Indonesia

### Population (millions)
- 239.9

### GDP ($ billions)
- 706.6

### Pop. growth (avg. ann. %, 1990-2010)
- 1.3

### GNI per capita (Atlas $)
- 2,500

### Climate
- Average daily min/max temperature (1961-90, Celsius)
  - 21 / 31
- Projected annual temperature change (2045-65, Celsius)
  - 1.5 to 1.8
- Average annual precipitation (1961-90, mm)
  - 2,702
- Projected annual precipitation change (2045-65, mm)
  - -160 to 234
- Projected change in annual hot days/warm nights
  - 17 / 27
- Projected change in annual cool days/cold nights
  - -3 / -3

### Exposure to Impacts

| Country data | East Asia & Pacific | Lower middle income |
|--------------|---------------------|---------------------|
| Land area below 5m (% of land area) | 5.5 | 2.5 | 1.7 |
| Population below 5m (% of total) | 11.2 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 9 | .. | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 4.1 | 3.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.2 | | |
| Annual freshwater withdrawals (% of internal resources) | 5.6 | 10.8 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | 16.0 | .. | .. |
| Population living below $1.25 a day (% of total) | 18.7 | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 14.1 | 14.9 | 9.5 |
| Under-five mortality rate (per 1,000) | 35 | 24 | 69 |
| Child malnutrition, underweight (% of under age five) | 17.5 | 9.0 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 1,645 | 525 | 4,874 |

### Resilience
- Access to improved sanitation (% of total pop.)
  - 52 | 59 | 45 |
- Access to improved water source (% of total pop.)
  - 80 | 88 | 84 |
- Cereal yield (kg. per hectare)
  - 4,813 | 4,860 | 2,754 |
- Access to electricity (% of total population)
  - 64.5 | 90.8 | 67.3 |
- Paved roads (% of total roads)
  - 59.1 | 15.9 | 29.3 |
- Health workers (per 1,000 people)
  - 2.3 | 2.8 | 2.6 |
- Foreign direct investment, net inflows (% of GDP)
  - 1.9 | 3.0 | 2.4 |
- Invest. in infrastructure w/private participation ($ millions)
  - 3,408 | 14,638 | 81,789 |
- Disaster risk reduction progress score (1-5 scale: 5 = best)
  - 3.3 |
- Ease of doing business (ranking 1-183; 1 = best)
  - 129 |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best)
  - 3.2 |
- Primary completion rate, total (% of relevant age group)
  - 109 | 97 | 88 |
- Ratio of girls to boys in primary & secondary school (%)
  - 98 | 103 | 93 |

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons)
  - 1.7 | 4.3 | 1.6 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)
  - 484.1 | 827.1 | 523.9 |
- CO₂ emissions, total (MtCO₂)
  - 406.0 | 8,259 | 3,744 |
- GHG net emissions/removals by LUCF (1994, MtCO₂e)
  - 164.1 |
- Methane (CH₄) emissions, total (MtCO₂e)
  - 208.9 | 1,928 | 1,705 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e)
  - 123.3 | 707 | 687 |
- Other GHG emissions, total (MtCO₂e)
  - 1.0 | .. | 17 |
- Energy use per capita (kilograms of oil equivalent)
  - 851 | 1,436 | 680 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)
  - 230.3 | 259.5 | 217.9 |

### National-Level Actions
- Latest UNFCCC national communication
  - 10/27/1999 (1st)
- Annex I emissions reduction target
  - n/a
- NAMA submission
  - Yes, with Goal
- NAPA submission
  - n/a
- Renewable energy target
  - Yes

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects
  - 70
- Issued Certified Emission Reductions (CERs) from CDM (thousands)
  - 3,007
- Hosted Joint Implementation (JI) projects
  - n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands)
  - n/a
### Exposure to Impacts

| Country data | Middle East & N. Africa | Upper middle income |
|--------------|-------------------------|---------------------|
| Population below area below 5m (% of land area) | 1.6 | 1.4 | 1.8 |
| Population below 5m (% of total) | 5.0 | 9.7 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 24 | 20 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.5 | 2.5 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 3.1 | | |
| Annual freshwater withdrawals (% of internal resources) | 72.5 | 121.9 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 19.0 | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.6 | .. |
| Nationally terrestrial protected areas (% of total land area) | 7.1 | 4.0 | 13.6 |
| Under-five mortality rate (per 1,000) | 26 | 34 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | 6.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | 18 | .. | 80 |

### Resilience

- Access to improved sanitation (% of total pop.) | 83 | 84 | 68 |
- Access to improved water source (% of total pop.) | 93 | 87 | 92 |
- Cereal yield (kg. per hectare) | 2,289 | 2,512 | 3,690 |
- Access to electricity (% of total population) | 98.4 | 92.9 | 98.0 |
- Pavement roads (% of total roads) | 73.3 | 74.3 | 50.5 |
- Health workers (per 1,000 people) | 2.5 | 3.6 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | 0.9 | 2.9 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 486 | 5,854 | 26,166 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1–183; 1 = best) | 144 | | |
- Public sector mgt & institutions avg. (1–6 scale; 6 = best) | .. | .. | .. |
- Primary completion rate, total (% of relevant age group) | 101 | 88 | 98 |
- Ratio of girls to boys in primary & secondary school (%) | 97 | 93 | 103 |

### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons) | 7.4 | 3.8 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 716.3 | 604.6 | 659.4 |
- CO₂ emissions, total (MtCO₂) | 538.4 | 1,230 | 12,860 |
- GHG net emissions/removals by LUCF (1994, MtCO₂e) | 31.6 | | |
- Methane (CH₄) emissions, total (MtCO₂e) | 114.6 | 287 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 26.6 | 74 | 1,144 |
- Other GHG emissions, total (MtCO₂e) | 2.6 | 7 | 243 |
- Energy use per capita (kilograms of oil equivalent) | 2,951 | 1,399 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 282.1 | 213.9 | 227.1 |

### National-Level Actions

- Latest UNFCCC national communication | 3/31/2003 (1st) | |
- Annex-I emissions reduction target | n/a | |
- NAMA submission | .. | |
- NAPA submission | n/a | |
- Renewable energy target | .. | |

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects | 7 | |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 | |
- Hosted Joint Implementation (JI) projects | n/a | |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | |
### Iraq

| Population (millions) | 32.0 | GDP ($ billions) | 82.2 |
|-----------------------|------|-----------------|------|
| Pop. growth (avg. ann. %, 1990-2010) | 2.8 | GNI per capita (Atlas $) | 2,340 |

### Climate

- Average daily min/max temperature (1961-90, Celsius): 14 / 29
- Projected annual temperature change (2045-65, Celsius): 2.3 to 3.2
- Average annual precipitation (1961-90, mm): 216
- Projected annual precipitation change (2045-65, mm): -38 to -2
- Projected change in annual hot days/warm nights: 3 / 7
- Projected change in annual cool days/cold nights: -2 / -1

### Exposure to Impacts

| Country data | Middle East & N. Africa | Lower middle income |
|--------------|-------------------------|--------------------|
| Land area below 5m (% of land area) | 4.0 | 1.4 | 1.7 |
| Population below 5m (% of total) | 6.5 | 9.7 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 23 | 20 | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 2.6 | 2.5 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 |          |      |
| Annual freshwater withdrawals (% of internal resources) | 187.5 | 121.9 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 4.0 | 3.6 | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.1 | 4.0 | 9.5 |
| Under-five mortality rate (per 1,000) | 39 | 34 | 69 |
| Child malnutrition, underweight (% of under age five) | 7.1 | 6.8 | 31.7 |
| Malania incidence rate (per 100,000 people) | 0 | .. | 4,874 |

### Resilience

| Country data | Middle East & N. Africa | Lower middle income |
|--------------|-------------------------|--------------------|
| Access to improved sanitation (% of total pop.) | 73 | 84 | 45 |
| Access to improved water source (% of total pop.) | 79 | 87 | 84 |
| Cereal yield (kg. per hectare) | 1,222 | 2,512 | 2,754 |
| Access to electricity (% of total population) | 86.0 | 92.9 | 67.3 |
| Paved roads (% of total roads) | 84.3 | 74.3 | 29.3 |
| Health workers (per 1,000 people) | 2.1 | 3.6 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 1.7 | 2.9 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 956 | 5,854 | 81,789 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 164 |          |      |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. |          |      |
| Primary completion rate, total (% of relevant age group) | 64 | 88 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 81 | 93 | 93 |

### GHG Emissions and Energy Use

| Country data | Middle East & N. Africa | Lower middle income |
|--------------|-------------------------|--------------------|
| CO2 emissions per capita (metric tons) | 3.4 | 3.8 | 1.6 |
| CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 1,057.0 | 604.6 | 523.9 |
| CO2 emissions, total (MtCO2) | 102.9 | 1,230 | 3,744 |
| GHG net emissions/removals by LUCF (MtCO2e) | .. |          |      |
| Methane (CH4) emissions, total (MtCO2e) | 15.9 | 287 | 1,705 |
| Nitrous oxide (N2O) emissions, total (MtCO2e) | 3.4 | 74 | 687 |
| Other GHG emissions, total (MtCO2e) | 0.1 | 7 | 17 |
| Energy use per capita (kilograms of oil equivalent) | 1,035 | 1,399 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 317.1 | 213.9 | 217.9 |

### National-Level Actions

| Country data | Middle East & N. Africa | Lower middle income |
|--------------|-------------------------|--------------------|
| Latest UNFCCC national communication | .. |          |      |
| Annex-I emissions reduction target | .. |          |      |
| NAMA submission | .. |          |      |
| NAPA submission | .. |          |      |
| Renewable energy target | .. |          |      |

### Carbon Markets

| Country data | Middle East & N. Africa | Lower middle income |
|--------------|-------------------------|--------------------|
| Hosted Clean Development Mechanism (CDM) projects | .. |          |      |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. |          |      |
| Hosted Joint Implementation (JI) projects | .. |          |      |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | .. |          |      |
Ireland

Population (millions) 4.5 GDP ($ billions) 203.9
Pop. growth (avg. ann. %, 1990–2010) 1.2 GNI per capita (Atlas $) 40,720

Climate
Average daily min/max temperature (1961–90, Celsius) 6 / 13
Projected annual temperature change (2045–65, Celsius) 0.9 to 1.4
Average annual precipitation (1961–90, mm) 1,118
Projected annual precipitation change (2045–65, mm) -13 to 78
Projected change in annual hot days/warm nights 3 / 6
Projected change in annual cool days/cold nights -1 / -1

Exposure to Impacts
Land area below 5m (% of land area) 4.0 2.2
Population below 5m (% of total) 6.6 7.7
Population in urban agglomerations > 1 million (%) 25 ..
Urban pop. growth (avg. annual %, 1990–2010) 1.6 1.0
Droughts, floods, extreme temps (% pop. avg., 1990–2009) 0.0 ..
Annual freshwater withdrawals (% of internal resources) .. 10.4
Agricultural land under irrigation (% of total ag. land) .. ..
Population living below $1.25 a day (% of total) 1.0 13.4
Under-five mortality rate (per 1,000) 4 6
Child malnutrition, underweight (% of under age five) .. ..
Malaria incidence rate (per 100,000 people) .. ..

Resilience
Access to improved sanitation (% of total pop.) 99 100
Access to improved water source (% of total pop.) 100 100
Cereal yield (kg. per hectare) 6,798 5,445
Access to electricity (% of total population) .. ..
Paved roads (% of total roads) 100.0 87.3
Health workers (per 1,000 people) 15.7 10.7
Foreign direct investment, net inflows (% of GDP) 13.3 1.8
Invest. in infrastructure w/private participation ($ millions) .. ..
Disaster risk reduction progress score (1–5 scale; 5 = best) .. ..
Ease of doing business (ranking 1–183; 1 = best) 10 ..
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) .. ..
Primary completion rate, total (% of relevant age group) 97 97
Ratio of girls to boys in primary & secondary school (%) 103 100

GHG Emissions and Energy Use
CO2 emissions per capita (metric tons) 9.9 11.9
CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) 252.9 354.4
CO2 emissions, total (MtCO2) 43.6 13,285
GHG net emissions/removals by LUCF (2009, MtCO2e) -2.2 1,539
Methane (CH4) emissions, total (MtCO2e) 15.3 813
Nitrous oxide (N2O) emissions, total (MtCO2e) 7.5 460
Other GHG emissions, total (MtCO2e) 1.2 460
Energy use per capita (kilograms of oil equivalent) 3,333 4,944
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 94.7 147.0

National-Level Actions
Latest UNFCCC national communication 3/3/2010 (5th)
Annex-I emissions reduction target (base year: 1990) 20% / 30% (EU)
NAMA submission n/a
NAPA submission n/a
Renewable energy target Yes

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects n/a
Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a
Hosted Joint Implementation (II) projects ..
Issued Emission Reduction Units (ERUs) from II (thousands) ..
Isle of Man

Population (thousands) 82.9  GDP ($ billions) 4.1
Pop. growth (avg. ann. %, 1990–2010) 0.8  GNI per capita (Atlas $) 48,910

Climate
Average daily min/max temperature (1961–90, Celsius) ..
Projected annual temperature change (2045–65, Celsius) 1.3 to 1.8
Average annual precipitation (1961–90, mm) ..
Projected annual precipitation change (2045–65, mm) -13 to 56
Projected change in annual hot days/warm nights 3 / 5
Projected change in annual cool days/cold nights -1 / -1

Exposure to Impacts
| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 12.1 | 2.2 |
| Population below 5m (% of total) | 27.8 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.7 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | .. | 13.4 |
| Under-five mortality rate (per 1,000) | .. | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

Resilience
Access to improved sanitation (% of total pop.) | .. | 100 |
Access to improved water source (% of total pop.) | .. | 100 |
Cereal yield (kg. per hectare) | .. | 5,445 |
Access to electricity (% of total population) | .. | .. |
Paved roads (% of total roads) | .. | 87.3 |
Health workers (per 1,000 people) | .. | 10.7 |
Foreign direct investment, net inflows (% of GDP) | .. | 1.8 |
Invest. in infrastructure w/private participation ($ million) | .. | .. |
Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. |
Ease of doing business (ranking 1–183; 1 = best) | .. | .. |
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
Primary completion rate, total (% of relevant age group) | .. | 97 |
Ratio of girls to boys in primary & secondary school (%) | .. | 100 |

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) | .. | 11.9 |
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 354.4 |
CO₂ emissions, total (MtCO₂) | .. | 13,285 |
GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. |
Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,539 |
Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 813 |
Other GHG emissions, total (MtCO₂e) | .. | 460 |
Energy use per capita (kilograms of oil equivalent) | .. | 4,944 |
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 147.0 |

National-Level Actions
Latest UNFCCC national communication | n/a |
Annex-I emissions reduction target | n/a |
NAMA submission | n/a |
NAPA submission | n/a |
Renewable energy target | .. |

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects | n/a |
Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
Hosted Joint Implementation (JI) projects | n/a |
Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
## Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| **Population below 5m (% of land area)** | 7.8 | 2.2 |
| **Population below 5m (% of total)** | 8.3 | 7.7 |
| **Population in urban agglomerations > 1 million (%)** | 57 | .. |
| **Urban pop. growth (avg. annual %, 1990–2010)** | 2.5 | 1.0 |
| **Droughts, floods, extreme temps (% pop. avg., 1990–2009)** | 0.0 | .. |
| **Annual freshwater withdrawals (% of internal resources)** | 241.9 | 10.4 |
| **Agricultural land under irrigation (% of total ag. land)** | 28.4 | .. |
| **Population living below $1.25 a day (% of total)** | .. | .. |
| **Nationally terrestrial protected areas (% of total land area)** | 18.7 | 13.4 |
| **Under-five mortality rate (per 1,000)** | 5 | 6 |
| **Child malnutrition, underweight (% of under age five)** | .. | .. |
| **Malaria incidence rate (per 100,000 people)** | .. | .. |

## Resilience

| Country data | High income |
|--------------|-------------|
| **Access to improved sanitation (% of total pop.)** | 100 | 100 |
| **Access to improved water source (% of total pop.)** | 100 | 100 |
| **Cereal yield (kg. per hectare)** | 3,182 | 5,445 |
| **Access to electricity (% of total population)** | 99.7 | .. |
| **Paved roads (% of total roads)** | 100.0 | 87.3 |
| **Health workers (per 1,000 people)** | 9.8 | 10.7 |
| **Foreign direct investment, net inflows (% of GDP)** | 2.4 | 1.8 |
| **Invest. in infrastructure w/private participation ($ millions)** | .. | .. |
| **Disaster risk reduction progress score (1–5 scale; 5 = best)** | .. | .. |
| **Public sector mgmt & institutions avg. (1–6 scale; 6 = best)** | 97 | .. |
| **Primary completion rate, total (% of relevant age group)** | 102 | 97 |
| **Ratio of girls to boys in primary & secondary school (%)** | 102 | 100 |

## GHG Emissions and Energy Use

| Country data | High income |
|--------------|-------------|
| **CO₂ emissions per capita (metric tons)** | 5.2 | 11.9 |
| **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)** | 200.2 | 354.4 |
| **CO₂ emissions, total (MtCO₂)*** | 37.7 | 13,285 |
| **GHG net emissions/removals by LUCF (2007, MtCO₂e)** | -0.4 | .. |
| **Methane (CH₄) emissions, total (MtCO₂e)** | 3.5 | 1,539 |
| **Nitrous oxide (N₂O) emissions, total (MtCO₂e)** | 1.8 | 813 |
| **Other GHG emissions, total (MtCO₂e)** | 2.0 | 460 |
| **Energy use per capita (kilograms of oil equivalent)** | 2,873 | 4,944 |
| **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)** | 110.4 | 147.0 |

## National-Level Actions

| Country data | High income |
|--------------|-------------|
| **Latest UNFCCC national communication** | 12/7/2010 (2nd) | .. |
| **Annex-I emissions reduction target** | n/a | .. |
| **NAMA submission** | Yes, with Goal | .. |
| **NAPA submission** | n/a | .. |
| **Renewable energy target** | Yes | .. |

## Carbon Markets

| Country data | High income |
|--------------|-------------|
| **Hosted Clean Development Mechanism (CDM) projects** | 22 | .. |
| **Issued Certified Emission Reductions (CERs) from CDM (thousands)** | 1,160 | .. |
| **Hosted Joint Implementation (JI) projects** | n/a | .. |
| **Issued Emission Reduction Units (ERUs) from JI (thousands)** | n/a | .. |

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**Israel**
### Italy

| Population (millions) | 60.5 | GDP ($ billions) | 2,051.4 |
|-----------------------|------|-----------------|---------|
| Pop. growth (avg. ann. %, 1990–2010) | 0.3 | GNI per capita (Atlas $) | 35,150 |

### Climate

- Average daily min/max temperature (1961–90, Celsius): 10 / 17
- Projected annual temperature change (2045–65, Celsius): 1.8 to 2.6
- Average annual precipitation (1961–90, mm): 832
- Projected annual precipitation change (2045–65, mm): -108 to -11
- Projected change in annual hot days/warm nights: 4 / 7
- Projected change in annual cool days/cold nights: -2 / -2

### Exposure to Impacts

|                                      | Country data | High income |
|--------------------------------------|--------------|-------------|
| Land area below 5m (% of land area)  | 5.2          | 2.2         |
| Population below 5m (% of total)     | 7.5          | 7.7         |
| Population in urban agglomerations > 1 million (%) | 17 % | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.4 % | 1.0 % |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 % | .. |
| Annual freshwater withdrawals (% of internal resources) | 24.8 % | 10.4 % |
| Agricultural land under irrigation (% of total ag. land) | 18.8 % | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 9.9 % | 13.4 % |
| Under-five mortality rate (per 1,000) | 4            | 6           |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

### Resilience

|                                      | Country data | High income |
|--------------------------------------|--------------|-------------|
| Access to improved sanitation (% of total pop.) | .. | 100 |
| Access to improved water source (% of total pop.) | 100 % | 100 % |
| Cereal yield (kg, per hectare) | 5,035         | 5,445       |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 100.0         | 87.3        |
| Health workers (per 1,000 people) | 6.5          | 10.7        |
| Foreign direct investment, net inflows (% of GDP) | 0.5 % | 1.8 % |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.5 | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 87 | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 104 % | 97 % |
| Ratio of girls to boys in primary & secondary school (%) | 99 % | 100 % |

### GHG Emissions and Energy Use

|                                      | Country data | High income |
|--------------------------------------|--------------|-------------|
| CO₂ emissions per capita (metric tons) | 7.4          | 11.9        |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 264.1 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 445.1         | 13,285      |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -94.7 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 40.8 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 28.6 | 813 |
| Other GHG emissions, total (MtCO₂e) | 14.0         | 460         |
| Energy use per capita (kilograms of oil equivalent) | 2,814 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 105.2 | 147.0 |

### National-Level Actions

- Latest UNFCCC national communication: 3/17/2010 (5th)
- Annex-I emissions reduction target (base year: 1990): 20% / 30% (EU)
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: Yes

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: ..
- Issued Emission Reduction Units (ERUs) from JI (thousands): ..
| Country data | Latin America & the Carib. | Upper middle income |
|-------------|---------------------------|---------------------|
| Population (millions) | 2.7 | GDP ($ billions) | 14.0 |
| Pop. growth (avg. ann. %, 1990-2010) | 0.6 | GNI per capita (Atlas $) | 4,770 |

**Climate**
- Average daily min/max temperature (1961-90, Celsius): 21 / 29
- Projected annual temperature change (2045-65, Celsius): 1.3 to 1.8
- Average annual precipitation (1961-90, mm): 2,051
- Projected annual precipitation change (2045-65, mm): -102 to 28
- Projected change in annual hot days/warm nights: 14 / 24
- Projected change in annual cool days/cold nights: -3 / -3

**Exposure to Impacts**

| Land area below 5m (% of land area) | Population below 5m (% of total) | Urban pop. growth (avg. annual %, 1990-2010) | Droughts, floods, extreme temps (% pop. avg., 1990-2009) | Annual freshwater withdrawals (% of internal resources) | Agricultural land under irrigation (% of total ag. land) | Population living below $1.25 a day (% of total) | Nationally terrestrial protected areas (% of total land area) | Under-five mortality rate (per 1,000) | Child malnutrition, underweight (% of under age five) | Malaria incidence rate (per 100,000 people) | Access to improved sanitation (% of total pop.) | Access to improved water source (% of total pop.) | Cereal yield (kg. per hectare) | Access to electricity (% of total population) | Paved roads (% of total roads) | Health workers (per 1,000 people) | Foreign direct investment, net inflows (% of GDP) | Invest. in infrastructure w/private participation ($ millions) | Disaster risk reduction progress score (1-5 scale; 5 = best) | Ease of doing business (ranking 1-183; 1 = best) | Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | Primary completion rate, total (% of relevant age group) | Ratio of girls to boys in primary & secondary school (%) | GHG Emissions and Energy Use | Energy use per capita (kilograms of oil equivalent) | Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | National-Level Actions | Carbon Markets |
|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 7.1 | 1.5 | 1.8 |
| 5.8 | 3.8 | 6.5 |
| .. | 35 | 22 |
| 1.0 | 2.0 | 2.3 |
| 1.1 |
| 6.2 | 2.0 | 5.6 |
| .. | .. | .. |
| <2 | 8.1 | .. |
| 18.9 | 20.8 | 13.6 |
| 24 | 23 | 20 |
| 2.2 | 3.8 | 4.1 |
| .. | 206 | 80 |
| 83 | 79 | 68 |
| 94 | 93 | 92 |
| 1,262 | 3,337 | 3,690 |
| 92.0 | 93.4 | 98.0 |
| 73.3 | 28.1 | 50.5 |
| 2.5 | 6.9 | 4.5 |
| 1.6 | 2.3 | 2.7 |
| 170 | 33,064 | 26,166 |
| 3.8 |
| .. |
| 88 |
| 89 | 102 | 98 |
| 100 | 102 | 103 |
| 4.5 | 2.8 | 5.3 |
| 618.4 | 285.6 | 659.4 |
| 12.2 | 1,584 | 12,860 |
| -0.2 |
| 1.3 | 1,009 | 3,455 |
| 0.6 | 442 | 1,144 |
| 0.1 | 21 | 243 |
| 1,208 | 1,245 | 1,848 |
| 169.3 | 130.6 | 227.1 |
| 11/21/2000 (1st) | n/a | n/a |
| .. | n/a | .. |
| Yes | n/a | n/a |
| 1 | n/a | n/a |
| 211 | n/a | n/a |
### Japan

| Population (millions) | 127.5 | GDP ($ billions) | 5,497.8 |
|-----------------------|-------|-----------------|---------|
| GDP per capita (Atlas $) | 42,130 |

#### Climate

| Parameter | Value |
|-----------|-------|
| Average daily min/max temperature (1961-90, Celsius) | 7 / 15 |
| Projected annual temperature change (2045-65, Celsius) | 1.8 to 2.3 |
| Average annual precipitation (1961-90, mm) | 1,668 |
| Projected annual precipitation change (2045-65, mm) | -47 to 80 |
| Projected change in annual hot days/warm nights | 3 / 6 |
| Projected change in annual cool days/cold nights | -2 / -2 |

#### Exposure to Impacts

| Category | Country data | High income |
|----------|--------------|-------------|
| Land area below 5m (% of land area) | 5.9 | 2.2 |
| Population below 5m (% of total) | 16.2 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 49 | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.4 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 20.6 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 35.2 | .. |
| Population living below $1.25 a day (% of total) | 16.3 | 13.4 |
| Nationally terrestrial protected areas (% of total land area) | 3 | 6 |
| Under-five mortality rate (per 1,000) | .. | .. |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

#### Resilience

| Category | Value |
|----------|-------|
| Access to improved sanitation (% of total pop.) | 100 |
| Access to improved water source (% of total pop.) | 100 |
| Cereal yield (kg. per hectare) | 5,920 |
| Access to electricity (% of total population) | .. |
| Paved roads (% of total roads) | 79.6 |
| Health workers (per 1,000 people) | 6.2 |
| Foreign direct investment, net inflows (% of GDP) | -0.0 |
| Invest. in infrastructure w/private participation ($ millions) | 1.8 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 4.5 |
| Ease of doing business (ranking 1-183; 1 = best) | 20 |
| Public sector mgnt & institutions avg. (1-6 scale; 6 = best) | .. |
| Primary completion rate, total (% of relevant age group) | 102 |
| Ratio of girls to boys in primary & secondary school (%) | 97 |

#### GHG Emissions and Energy Use

| Category | Value |
|----------|-------|
| CO₂ emissions per capita (metric tons) | 9.5 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 302.2 |
| CO₂ emissions, total (MtCO₂) | 1,208.2 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -71.5 |
| Methane (CH₄) emissions, total (MtCO₂e) | 42.8 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 29.8 |
| Other GHG emissions, total (MtCO₂e) | 53.8 |
| Energy use per capita (kilograms of oil equivalent) | 3,883 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 125.7 |

#### National-Level Actions

| Category | Value |
|----------|-------|
| Latest UNFCCC national communication | 12/21/2009 (5th) |
| Annex-I emissions reduction target (base year: 1990) | 25% |
| NAMA submission | n/a |
| NAPA submission | n/a |
| Renewable energy target | Yes |

#### Carbon Markets

| Category | Value |
|----------|-------|
| Hosted Clean Development Mechanism (CDM) projects | n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
| Hosted Joint Implementation (JI) projects | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | .. |
## Climate

|                                | Middle East & N. Africa | Upper middle income |
|--------------------------------|-------------------------|---------------------|
| Average daily min/max temperature (1961-90, Celsius) | 11 / 25                |                     |
| Projected annual temperature change (2045-65, Celsius) | 2.1 to 2.9              |                     |
| Average annual precipitation (1961-90, mm)            | 111                    |                     |
| Projected annual precipitation change (2045-65, mm)   | -28 to -3              |                     |
| Projected change in annual hot days/warm nights      | 4 / 7                  |                     |
| Projected change in annual cool days/cold nights     | -1 / -2                |                     |

## Exposure to Impacts

|                                    | Country data | Middle East & N. Africa | Upper middle income |
|------------------------------------|--------------|-------------------------|---------------------|
| Land area below 5m (% of land area) | 2.0          | 1.4                     | 1.8                 |
| Population below 5m (% of total)   | 4.2          | 9.7                     | 6.5                 |
| Population in urban agglomerations > 1 million (%) | 18           | 20                      | 22                  |
| Urban pop. growth (avg. annual %, 1990-2010) | 3.6          | 2.5                     | 2.3                 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.4          |                         |                     |
| Annual freshwater withdrawals (% of internal resources) | 136.5        | 121.9                   | 5.6                 |
| Agricultural land under irrigation (% of total ag. land) | 9.2          |                         |                     |
| Population living below $1.25 a day (% of total) | <2           | 3.6                     | ..                  |
| Nationally terrestrial protected areas (% of total land area) | 9.4          | 4.0                     | 13.6                |
| Under-five mortality rate (per 1,000) | 22           | 34                      | 30                  |
| Child malnutrition, underweight (% of under age five) | 1.9          | 6.8                     | 4.1                 |
| Malaria incidence rate (per 100,000 people) | ..           | ..                      | 80                  |

## Resilience

|                                    | Country data | Middle East & N. Africa | Upper middle income |
|------------------------------------|--------------|-------------------------|---------------------|
| Access to improved sanitation (% of total pop.) | 98           | 84                      | 68                  |
| Access to improved water source (% of total pop.) | 96           | 87                      | 92                  |
| Cereal yield (kg, per hectare)     | 1,044        | 2,512                   | 3,690               |
| Access to electricity (% of total population) | 99.9         | 92.9                    | 98.0                |
| Paved roads (% of total roads)     | 100.0        | 74.3                    | 50.5                |
| Health workers (per 1,000 people)  | 6.5          | 3.6                     | 4.5                 |
| Foreign direct investment, net inflows (% of GDP) | 6.2          | 2.9                     | 2.7                 |
| Invest. in infrastructure w/private participation ($ millions) | 301          | 5,854                   | 26,166              |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | ..           | ..                      |                     |
| Ease of doing business (ranking 1-183; 1 = best) | 96           |                         |                     |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | ..           |                         |                     |
| Primary completion rate, total (% of relevant age group) | 99           | 88                      | 98                  |
| Ratio of girls to boys in primary & secondary school (%) | 102          | 93                      | 103                 |

## GHG Emissions and Energy Use

|                                    | Country data | Middle East & N. Africa | Upper middle income |
|------------------------------------|--------------|-------------------------|---------------------|
| CO₂ emissions per capita (metric tons) | 3.7          | 3.8                     | 5.3                 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 723.4        | 604.6                   | 659.4               |
| CO₂ emissions, total (MtCO₂)       | 21.4         | 1,230                   | 12,860              |
| GHG net emissions/removals by LUCF (2000, MtCO₂e) | 0.7          |                         |                     |
| Methane (CH₄) emissions, total (MtCO₂e) | 1.8          | 287                     | 3,455               |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 0.7          | 74                      | 1,144               |
| Other GHG emissions, total (MtCO₂e) | 0.1          | 7                       | 243                 |
| Energy use per capita (kilograms of oil equivalent) | 1,260        | 1,399                   | 1,848               |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 246.3        | 213.9                   | 227.1               |

## National-Level Actions

|                                    | Country data | Middle East & N. Africa | Upper middle income |
|------------------------------------|--------------|-------------------------|---------------------|
| Latest UNFCCC national communication | 11/8/2009 (2nd) |                         |                     |
| Annex-I emissions reduction target  | n/a          |                         |                     |
| NAMA submission                     | Yes          |                         |                     |
| NAPA submission                     | n/a          |                         |                     |
| Renewable energy target             | Yes          |                         |                     |

## Carbon Markets

|                                    | Country data | Middle East & N. Africa | Upper middle income |
|------------------------------------|--------------|-------------------------|---------------------|
| Hosted Clean Development Mechanism (CDM) projects | 2           |                         |                     |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 986          |                         |                     |
| Hosted Joint Implementation (JI) projects | n/a          |                         |                     |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a          |                         |                     |
### Kazakhstan

| Population (millions) | 16.3 | GDP ($ billions) | 143.0 |
|-----------------------|------|------------------|-------|
| Pop. growth (avg. ann. %, 1990–2010) | -0.0 | GNI per capita (Atlas $) | 7,440 |

#### Climate
- Average daily min/max temperature (1961–90, Celsius): 1/12
- Projected annual temperature change (2045–65, Celsius): 2.2 to 3.1
- Average annual precipitation (1961–90, mm): 250
- Projected annual precipitation change (2045–65, mm): -1 to 37
- Projected change in annual hot days/warm nights: 2/5
- Projected change in annual cool days/cold nights: -1/-1

#### Exposure to Impacts

| Exposure to Impacts | Country data | Europe & Central Asia | Upper middle income |
|---------------------|--------------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 6.7 | 2.5 | 1.8 |
| Population below 5m (% of total) | 3.9 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 8 | 18 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.2 | 0.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.2 | | |
| Annual freshwater withdrawals (% of internal resources) | 42.1 | 6.5 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 2.5 | 7.5 | 13.6 |
| Under-five mortality rate (per 1,000) | 33 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 4.9 | .. | 4.1 |
| Malara incidence rate (per 100,000 people) | .. | .. | 80 |

#### Resilience
- Access to improved sanitation (% of total pop.) | 97 | 89 | 68 |
- Access to improved water source (% of total pop.) | 95 | 95 | 92 |
- Cereal yield (kg. per hectare) | 1,254 | 2,475 | 3,690 |
- Access to electricity (% of total population) | .. | .. | 98.0 |
- Paved roads (% of total roads) | 89.9 | 85.8 | 50.5 |
- Health workers (per 1,000 people) | 3.8 | 9.9 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | 7.0 | 2.8 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 596 | 22,652 | 26,166 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1–183; 1 = best) | 47 | | |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. | .. |
- Primary completion rate, total (% of relevant age group) | 108 | 95 | 98 |
- Ratio of girls to boys in primary & secondary school (%) | 99 | 97 | 103 |

#### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 15.1 | 7.7 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 1,444.1 | 708.0 | 659.4 |
- CO₂ emissions, total (MtCO₂) | 237.0 | 3,110 | 12,860 |
- GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. | .. |
- Methane (CH₄) emissions, total (MtCO₂e) | 47.1 | 937 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 17.6 | 214 | 1,144 |
- Other GHG emissions, total (MtCO₂e) | 0.3 | 76 | 243 |
- Energy use per capita (kilograms of oil equivalent) | 4,134 | 2,833 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 396.5 | 276.8 | 227.1 |

#### National-Level Actions
- Latest UNFCCC national communication | 6/4/2009 (2nd) |
- Annex-I emissions reduction target (base year: 1992) | 15% |
- NAMA submission | .. |
- NAPA submission | n/a |
- Renewable energy target | .. |

#### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | .. |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
Kenya

Population (millions) 40.5  GDP ($ billions) 31.4  GNI per capita (Atlas $) 790
Pop. growth (avg. ann. %, 1990-2010) 2.7

Climate
Average daily min/max temperature (1961-90, Celsius) 19 / 31
Projected annual temperature change (2045-65, Celsius) 1.9 to 2.1
Average annual precipitation (1961-90, mm) 692
Projected annual precipitation change (2045-65, mm) 0 to 144
Projected change in annual hot days/warm nights 8 / 25
Projected change in annual cool days/cold nights -2 / -3

Exposure to Impacts
| Country | Sub-Saharan Africa | Low income |
|---------|-------------------|------------|
| Land area below 5m (% of land area) | 0.2 | 0.4 | 0.7 |
| Population below 5m (% of total) | 1.4 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | 9 | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990-2010) | 3.7 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 6.5 | |
| Annual freshwater withdrawals (% of internal resources) | 13.2 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | 11.6 | 11.7 | 10.6 |
| Population living below $1.25 a day (% of total) | 19.7 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 13.2 | 4.0 | 3.7 |
| Under-five mortality rate (per 1,000) | 85 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 16.4 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 30,307 | 26,113 | 16,659 |

Resilience
Access to improved sanitation (% of total pop.) | 31 | 31 | 35 |
Access to improved water source (% of total pop.) | 59 | 60 | 63 |
Cereal yield (kg, per hectare) | 1,204 | 1,297 | 2,047 |
Access to electricity (% of total population) | 16.1 | 32.5 | 23.0 |
Paved roads (% of total roads) | 14.1 | 18.3 | 14.1 |
Health workers (per 1,000 people) | 0.1 | 1.2 | 0.7 |
Foreign direct investment, net inflows (% of GDP) | 0.4 | 3.6 | 3.2 |
Invest. in infrastructure w/private participation ($ millions) | 492 | 11,957 | 4,471 |
Disaster risk reduction progress score (1-5 scale; 5 = best) | 4.0 | |
Ease of doing business (ranking 1-183; 1 = best) | 109 | |
Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 3.3 | |
Primary completion rate, total (% of relevant age group) | 90 | 67 | 65 |
Ratio of girls to boys in primary & secondary school (%) | 95 | 89 | 91 |

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) | 0.3 | 0.8 | 0.3 |
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 187.6 | 428.6 | 270.2 |
CO₂ emissions, total (MtCO₂) | 10.4 | 685 | 219 |
GHG net emissions/removals by LUCF (1994, MtCO₂e) | -28.0 | |
Methane (CH₄) emissions, total (MtCO₂e) | 22.1 | 590 | 436 |
Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 10.5 | 334 | 209 |
Other GHG emissions, total (MtCO₂e) | 0.0 | .. | .. |
Energy use per capita (kilograms of oil equivalent) | 474 | 689 | 365 |
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 329.4 | 308.4 | 303.9 |

National-Level Actions
Latest UNFCCC national communication 10/22/2002 (1st)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission n/a
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 5
Issued Certified Emission Reductions (CERs) from CDM (thousands) 0
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
Kiribati

| Population (thousands) | 99.5 | GDP ($ millions) | 151.2 |
|------------------------|------|----------------|-------|
| Pop. growth (avg. ann. %, 1990-2010) | 1.6 | GNI per capita (Atlas $) | 2,010 |

**Climate**

- Average daily min/max temperature (1961-90, Celsius): 25 / 31
- Projected annual temperature change (2045-65, Celsius): 1.6 to 2.0
- Average annual precipitation (1961-90, mm): 1,942
- Projected annual precipitation change (2045-65, mm): 81 to 385
- Projected change in annual hot days/warm nights: 14 / 24
- Projected change in annual cool days/cold nights: -2 / -2

**Exposure to Impacts**

| Country data | East Asia & Pacific | Lower middle income |
|--------------|---------------------|---------------------|
| Land area below 5m (% of land area) | 96.7 | 2.5 | 1.7 |
| Population below 5m (% of total) | 95.2 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | .. | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 2.8 | 3.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 5.0 |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.8 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 22.0 | 14.9 | 9.5 |
| Under-five mortality rate (per 1,000) | 49 | 24 | 69 |
| Child malnutrition, underweight (% of under age five) | .. | 9.0 | 31.7 |
| Malaria incidence rate (per 100,000 people) | .. | 525 | 4,874 |

**Resilience**

- Access to improved sanitation (% of total pop.) | 31 | 59 | 45 |
- Access to improved water source (% of total pop.) | 61 | 88 | 84 |
- Cereal yield (kg, per hectare) | .. | 4,860 | 2,754 |
- Access to electricity (% of total population) | .. | 90.8 | 67.3 |
- Paved roads (% of total roads) | .. | 15.9 | 29.3 |
- Health workers (per 1,000 people) | 0.3 | 2.8 | 2.6 |
- Foreign direct investment, net inflows (% of GDP) | 2.4 | 3.0 | 2.4 |
- Invest. in infrastructure w/private participation ($ millions) | .. | 14,638 | 81,789 |
- Disaster risk reduction progress score (1-5 scale; 5 = best) | .. |
- Ease of doing business (ranking 1-183; 1 = best) | 115 |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 3.1 |
- Primary completion rate, total (% of relevant age group) | 118 | 97 | 88 |
- Ratio of girls to boys in primary & secondary school (%) | 107 | 103 | 93 |

**GHG Emissions and Energy Use**

- CO2 emissions per capita (metric tons) | 0.3 | 4.3 | 1.6 |
- CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 134.6 | 827.1 | 523.9 |
- CO2 emissions, total (MtCO2) | 0.0 | 8,259 | 3,744 |
- GHG net emissions/removals by LUCF (MtCO2e) | .. |
- Methane (CH4) emissions, total (MtCO2e) | .. | 1,928 | 1,705 |
- Nitrous oxide (N2O) emissions, total (MtCO2e) | .. | 707 | 687 |
- Other GHG emissions, total (MtCO2e) | .. | .. | 17 |
- Energy use per capita (kilograms of oil equivalent) | 116 | 1,436 | 680 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 49.9 | 259.5 | 217.9 |

**National-Level Actions**

- Latest UNFCCC national communication | 10/30/1999 (1st) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | .. |
- NAPA submission | Yes |
- Renewable energy target | .. |

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects | .. |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### Exposure to Impacts

| Country data | East Asia & Pacific | Low income |
|--------------|---------------------|------------|
| Population below 5m (% of land area) | 2.4 | 2.5 | 0.7 |
| Population below 5m (% of total) | 5.3 | 10.3 | 5.1 |
| Population in urban agglomerations > 1 million (%) | 12 | .. | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.4 | 3.3 | 3.7 |
| Droughts, floods, extreme temps (% temp. pop., 1990–2009) | 2.5 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 10.3 | 10.8 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 4.0 | 14.9 | 10.6 |
| Under-five mortality rate (per 1,000) | 33 | 24 | 108 |
| Child malnutrition, underweight (% of under age five) | 20.6 | 9.0 | 28.3 |
| Malnair incidence rate (per 100,000 people) | 284 | 525 | 16,859 |

### Resilience

| Country data | East Asia & Pacific | Low income |
|--------------|---------------------|------------|
| Access to improved sanitation (% of total pop.) | 59 | 59 | 35 |
| Access to improved water source (% of total pop.) | 100 | 88 | 63 |
| Cereal yield (kg, per hectare) | 3,513 | 4,860 | 2,047 |
| Access to electricity (% of total population) | 26.0 | 90.8 | 23.0 |
| Paved roads (% of total roads) | 2.8 | 15.9 | 14.1 |
| Health workers (per 1,000 people) | 7.4 | 2.8 | 0.7 |
| Foreign direct investment, net inflows (% of GDP) | .. | 3.0 | 3.2 |
| Invest. in infrastructure w/private participation (% millions) | 47 | 14,638 | 4,471 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | .. | .. | .. |
| Public sector mgt & institutions avg. (1–6 scale; 6 = best) | .. | .. | .. |
| Primary completion rate, total (% of relevant age group) | .. | 97 | 65 |
| Ratio of girls to boys in primary & secondary school (%) | .. | 103 | 91 |

### GHG Emissions and Energy Use

| Country data | East Asia & Pacific | Low income |
|--------------|---------------------|------------|
| CO₂ emissions per capita (metric tons) | 3.2 | 4.3 | 0.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 827.1 | 270.2 |
| CO₂ emissions, total (MtCO₂) | 78.4 | 8,259 | 219 |
| GHG net emissions/removals by LUCF (1990, MtCO₂e) | -14.6 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 18.2 | 1,928 | 436 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 3.4 | 707 | 209 |
| Other GHG emissions, total (MtCO₂e) | 2.8 | .. | .. |
| Energy use per capita (kilograms of oil equivalent) | 795 | 1,436 | 365 |
| Energy use per units of GDP (kg eq./$1,000 of 2005 PPP $) | .. | 259.5 | 303.9 |

### National-Level Actions

| Country data | East Asia & Pacific | Low income |
|--------------|---------------------|------------|
| Latest UNFCCC national communication | 5/7/2004 (1st) | .. | .. |
| Annex-I emissions reduction target | n/a | .. | .. |
| NAMA submission | .. | .. | .. |
| NAPA submission | n/a | .. | .. |
| Renewable energy target | .. | .. | .. |

### Carbon Markets

| Country data | East Asia & Pacific | Low income |
|--------------|---------------------|------------|
| Hosted Clean Development Mechanism (CDM) projects | 0 | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 | .. | .. |
| Hosted Joint Implementation (JI) projects | n/a | .. | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. | .. |
| Country data | High income |
|-------------|-------------|
| Population (millions) | 48.9 | 4.3 |
| GDP ($ billions) | 1,014.5 | 2.2 |
| GNI per capita (Atlas $) | 19,890 | .. |

**Climate**

- Average daily min/max temperature (1961–90, Celsius) | 7 / 17 |
- Projected annual temperature change (2045–65, Celsius) | 1.8 to 2.3 |
- Average annual precipitation (1961–90, mm) | 1,404 |
- Projected annual precipitation change (2045–65, mm) | 0 to 181 |
- Projected change in annual hot days/warm nights | 3 / 5 |
- Projected change in annual cool days/cold nights | -1 / -2 |

**Exposure to Impacts**

| Land area below 5m (% of land area) | 4.3 |
| Population below 5m (% of total) | 5.0 |
| Population in urban agglomerations > 1 million (%) | 48 |
| Urban pop. growth (avg. annual, 1990–2010) | 1.2 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.1 |
| Annual freshwater withdrawals (% of internal resources) | 39.3 |
| Agricultural land under irrigation (% of total ag. land) | 51.6 |
| Population living below $1.25 a day (% of total) | .. |
| Nationally terrestrial protected areas (% of total land area) | 2.4 |
| Under-five mortality rate (per 1,000) | 5 |
| Child malnutrition, underweight (% of under age five) | .. |
| Malari incidence rate (per 100,000 people) | 8 |

**Resilience**

| Access to improved sanitation (% of total pop.) | 100 |
| Access to improved water source (% of total pop.) | 98 |
| Cereal yield (kg. per hectare) | 7,238 |
| Access to electricity (% of total population) | .. |
| Paved roads (% of total roads) | 78.5 |
| Health workers (per 1,000 people) | 7.3 |
| Foreign direct investment, net inflows (% of GDP) | .. |
| Invest. in infrastructure w/private participation ($ millions) | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 8 |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. |
| Primary completion rate, total (% of relevant age group) | 101 |
| Ratio of girls to boys in primary & secondary school (%) | 97 |

**GHG Emissions and Energy Use**

| CO₂ emissions per capita (metric tons) | 10.5 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 410.5 |
| CO₂ emissions, total (MtCO₂) | 509.2 |
| GHG net emissions/removals by LUCF (2001, MtCO₂) | .. |
| Methane (CH₄) emissions, total (MtCO₂) | 32.1 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂) | 13.5 |
| Other GHG emissions, total (MtCO₂) | 10.2 |
| Energy use per capita (kilograms of oil equivalent) | 5,044 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 186.6 |

**National-Level Actions**

- Latest UNFCCC national communication | 12/1/2003 (2nd) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | Yes, with Goal |
- NAPA submission | n/a |
- Renewable energy target | Yes |

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects | 64 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 77,317 |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
Population (millions) 1.8 GDP ($ billions) 5.6 
Pop. growth (avg. ann. %, 1990–2010) -0.1 GNI per capita (Atlas $) 3,300

**Climate**

Average daily min/max temperature (1961–90, Celsius) ..
Projected annual temperature change (2045–65, Celsius) 2.0 to 3.1
Average annual precipitation (1961–90, mm) ..
Projected annual precipitation change (2045–65, mm) -148 to -34
Projected change in annual hot days/warm nights 3 / 6
Projected change in annual cool days/cold nights -1 / -1

**Exposure to Impacts**

| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| Land area below 5m (% of land area) | .. 2.5 | 1.7 |
| Population below 5m (% of total) | .. 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. 18 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | .. 0.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. .. |
| Annual freshwater withdrawals (% of internal resources) | .. 6.5 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. .. |
| Population living below $1.25 a day (% of total) | .. 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | .. 7.5 | 9.5 |
| Under-five mortality rate (per 1,000) | .. 23 | 69 |
| Child malnutrition, underweight (% of under age five) | .. .. | 31.7 |
| Malaria incidence rate (per 100,000 people) | .. .. | 4,874 |

**Resilience**

| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| Access to improved sanitation (% of total pop.) | .. 89 | 45 |
| Access to improved water source (% of total pop.) | .. 95 | 84 |
| Cereal yield (kg. per hectare) | .. 2,475 | 2,754 |
| Access to electricity (% of total population) | .. .. | 67.3 |
| Paved roads (% of total roads) | .. 85.8 | 29.3 |
| Health workers (per 1,000 people) | .. 9.9 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | .. 7.4 | 2.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. 5 | 22,652 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. 81,789 |
| Ease of doing business (ranking 1–183; 1 = best) | .. 117 |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. 3.2 |
| Primary completion rate, total (% of relevant age group) | .. 95 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | .. 97 | 93 |

**GHG Emissions and Energy Use**

| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| CO₂ emissions per capita (metric tons) | .. 7.7 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. 708.0 | 523.9 |
| CO₂ emissions, total (MtCO₂) | .. 3,110 | 3,744 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. 937 | 1,705 |
| Methane (CH₄) emissions, total (MtCO₂e) | .. 214 | 687 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. 76 | 17 |
| Other GHG emissions, total (MtCO₂e) | .. 2,833 | 680 |
| Energy use per capita (kilograms of oil equivalent) | .. 276.8 | 217.9 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. 3,110 | 3,744 |

**National-Level Actions**

| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| Latest UNFCCC national communication | .. n/a | n/a |
| Annex-I emissions reduction target | .. n/a | n/a |
| NAMA submission | .. n/a | n/a |
| NAPA submission | .. n/a | n/a |
| Renewable energy target | .. .. |

**Carbon Markets**

Hosted Clean Development Mechanism (CDM) projects n/a
Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a
Hosted Joint Implementation (II) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
Kuwait

Population (millions) 2.7  GDP ($ billions) 109.5  GNI per capita (Atlas $) 47,790
Pop. growth (avg. ann. %, 1990–2010) 1.4

Climate
Average daily min/max temperature (1961–90, Celsius) 19 / 32
Projected annual temperature change (2045–65, Celsius) 2.2 to 3.1
Average annual precipitation (1961–90, mm) 121
Projected annual precipitation change (2045–65, mm) -19 to 4
Projected change in annual hot days/warm nights 4 / 7
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts
Country data  High income
Land area below 5m (% of land area) 8.9  2.2
Population below 5m (% of total) 22.8  7.7
Population in urban agglomerations > 1 million (%) 84 ..
Urban pop. growth (avg. annual %, 1990–2010) 1.4  1.0
Droughts, floods, extreme temps (% pop. avg., 1990–2009) 0.0
Annual freshwater withdrawals (% of internal resources) .. 10.4
Agricultural land under irrigation (% of total ag. land) .. ..
Population living below $1.25 a day (% of total) 1.6  13.4
Under-five mortality rate (per 1,000) 11  6
Child malnutrition, underweight (% of under age five) 1.7 ..
Malaria incidence rate (per 100,000 people) .. ..

Resilience
Access to improved sanitation (% of total pop.) 100 100
Access to improved water source (% of total pop.) 99 100
Cereal yield (kg. per hectare) 3,084 5,445
Access to electricity (% of total population) 100.0 ..
Paved roads (% of total roads) 85.0  87.3
Health workers (per 1,000 people) 6.3  10.7
Foreign direct investment, net inflows (% of GDP) 1.0  1.8
Invest. in infrastructure w/private participation ($ millions) .. ..
Disaster risk reduction progress score (1–5 scale; 5 = best) .. ..
Ease of doing business (ranking 1–183; 1 = best) 67 ..
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) .. ..
Primary completion rate, total (% of relevant age group) 93 97
Ratio of girls to boys in primary & secondary school (%) 101 100

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 30.1  11.9
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 602.0  354.4
CO₂ emissions, total (MtCO₂) 76.7 13,285
GHG net emissions/removals by LUCF (MtCO₂e) .. ..
Methane (CH₄) emissions, total (MtCO₂e) 14.4 1,539
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 0.6 813
Other GHG emissions, total (MtCO₂e) 0.9  460
Energy use per capita (kilograms of oil equivalent) 11,402 4,944
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 217.6  147.0

National-Level Actions
Latest UNFCCC national communication ..
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission n/a
Renewable energy target Yes

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects ..
Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
Hosted Joint Implementation (JI) projects .. n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) .. n/a
## Kyrgyz Republic

| Population (millions) | 5.4 | GDP ($ billions) | 4.6 |
|-----------------------|-----|-----------------|-----|
| Pop. growth (avg. ann. %, 1990-2010) | 1.0 | GNI per capita (Atlas $) | 880 |

### Climate
- Average daily min/max temperature (1961-90, Celsius) -5°/8°
- Projected annual temperature change (2045-65, Celsius) 2.3° to 3.2°
- Average annual precipitation (1961-90, mm) 381
- Projected annual precipitation change (2045-65, mm) -32° to 35°
- Projected change in annual hot days/warm nights 3° / 7°
- Projected change in annual cool days/cold nights -1° / -1°

### Exposure to Impacts

| Country data | Europe & Central Asia | Low income |
|--------------|-----------------------|------------|
| Land area below 5m (% of land area) | 0.0 | 2.5 | 0.7 |
| Population below 5m (% of total) | 0.0 | 3.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | .. | 18 | 11 |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.8 | 0.3 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 2.1 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 20.6 | 6.5 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | 9.4 | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 6.9 | 7.5 | 10.6 |
| Under-five mortality rate (per 1,000) | 38 | 23 | 108 |
| Child malnutrition, underweight (% of under age five) | 2.7 | .. | 28.3 |
| Malaria incidence rate (per 100,000 people) | 0 | .. | 16,659 |

### Resilience
- Access to improved sanitation (% of total pop.) 93 | 89 | 35 |
- Access to improved water source (% of total pop.) 90 | 95 | 63 |
- Cereal yield (kg. per hectare) 3,034 | 2,475 | 2,047 |
- Access to electricity (% of total population) .. | .. | 23.0 |
- Paved roads (% of total roads) 91.1 | 85.8 | 14.1 |
- Health workers (per 1,000 people) 8.0 | 9.9 | 0.7 |
- Foreign direct investment, net inflows (% of GDP) 5.1 | 2.8 | 3.2 |
- Invest. in infrastructure w/private participation ($ millions) 14 | 22,652 | 4,471 |
- Disaster risk reduction progress score (1-5 scale; 5 = best) .. | .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) 70 | .. | .. |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) 3.0 | .. | .. |
- Primary completion rate, total (% of relevant age group) 94 | 95 | 65 |
- Ratio of girls to boys in primary & secondary school (%) 101 | 97 | 91 |

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) 1.2 | 7.7 | 0.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 575.9 | 708.0 | 270.2 |
- CO₂ emissions, total (MtCO₂) 6.2 | 3,110 | 219 |
- GHG net emissions/removals by LUCF (2005, MtCO₂e) -0.7 | .. | .. |
- Methane (CH₄) emissions, total (MtCO₂e) 3.6 | 937 | 436 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) 1.5 | 214 | 209 |
- Other GHG emissions, total (MtCO₂e) 0.0 | 76 | .. |
- Energy use per capita (kilograms of oil equivalent) 566 | 2,833 | 365 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 271.4 | 276.8 | 303.9 |

### National-Level Actions
- Latest UNFCCC national communication 6/4/2009 (2nd) |
- Annex-I emissions reduction target n/a |
- NAMA submission .. |
- NAPA submission n/a |
- Renewable energy target .. |

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects 0 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) 0 |
- Hosted Joint Implementation (JI) projects n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) n/a |
### Population (millions)

| Country data | East Asia & Pacific | Lower middle income |
|--------------|---------------------|---------------------|
| Lao PDR      | 6.2                 | 7.5                 |
| Pop. growth (avg. ann. %, 1990-2010) | 2.0 | 1,040 |

### Climate

- **Average daily min/max temperature (1961-90, Celsius)**: 18 / 27
- **Projected annual temperature change (2045-65, Celsius)**: 1.6 to 2.4
- **Average annual precipitation (1961-90, mm)**: 1,834
- **Projected annual precipitation change (2045-65, mm)**: -95 to 70
- **Projected change in annual hot days/warm nights**: 3 / 13
- **Projected change in annual cool days/cold nights**: -1 / -1

### Exposure to Impacts

| Land area below 5m (% of land area) | 0.0 | 2.5 | 1.7 |
| Population below 5m (% of total)   | 0.0 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | .. | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 5.8 | 3.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 2.7 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 1.6 | 10.8 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 33.9 | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 16.3 | 14.9 | 9.5 |
| Under-five mortality rate (per 1,000) | 54 | 24 | 69 |
| Child malnutrition, underweight (% of under age five) | 31.6 | 9.0 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 327 | 525 | 4,874 |

### Resilience

- **Access to improved sanitation (% of total pop.)**: 53 / 59 / 45
- **Access to improved water source (% of total pop.)**: 57 / 88 / 84
- **Cereal yield (kg. per hectare)**: 3,808 / 4,860 / 2,754
- **Access to electricity (% of total population)**: 55.0 / 90.8 / 67.3
- **Paved roads (% of total roads)**: 13.5 / 15.9 / 29.3
- **Health workers (per 1,000 people)**: 1.2 / 2.8 / 2.6
- **Foreign direct investment, net inflows (% of GDP)**: 4.7 / 3.0 / 2.4
- **Invest. in infrastructure w/private participation ($ millions)**: 3,860 / 14,638 / 81,789
- **Disaster risk reduction progress score (1-5 scale; 5 = best)**: 2.3 / 165
- **Public sector mgmt & institutions avg. (1-6 scale; 6 = best)**: 3.1 / ..
- **Primary completion rate, total (% of relevant age group)**: 75 / 97 / 88
- **Ratio of girls to boys in primary & secondary school (%)**: 87 / 103 / 93

### GHG Emissions and Energy Use

- **CO₂ emissions per capita (metric tons)**: 0.3 / 4.3 / 1.6
- **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)**: 125.3 / 827.1 / 523.9
- **CO₂ emissions, total (MtCO₂)**: 1.5 / 8,259 / 3,744
- **GHG net emissions/removals by LUCF (1990, MtCO₂e)**: -104.3 / .. / 1,928 / 1,705
- **Methane (CH₄) emissions, total (MtCO₂e)**: .. / 1,928 / 1,705
- **Nitrous oxide (N₂O) emissions, total (MtCO₂e)**: .. / 707 / 687
- **Other GHG emissions, total (MtCO₂e)**: .. / .. / 17
- **Energy use per capita (kilograms of oil equivalent)**: 1,436 / 680
- **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)**: 259.5 / 217.9

### National-Level Actions

- **Latest UNFCCC national communication**: 11/2/2000 (1st)
- **Annex-I emissions reduction target**: n/a
- **NAMA submission**: ..
- **NAPA submission**: Yes
- **Renewable energy target**: ..

### Carbon Markets

- **Hosted Clean Development Mechanism (CDM) projects**: 1
- **Issued Certified Emission Reductions (CERs) from CDM (thousands)**: 2
- **Hosted Joint Implementation (JI) projects**: n/a
- **Issued Emission Reduction Units (ERUs) from JI (thousands)**: n/a
| Population (millions) | 2.2 | GDP ($ billions) | 24.0 |
|-----------------------|-----|-----------------|------|
| Pop. growth (avg. ann. %, 1990-2010) | -0.9 | GNI per capita (Atlas $) | 11,620 |

### Climate

- Average daily min/max temperature (1961-90, Celsius): 2 / 9
- Projected annual temperature change (2045-65, Celsius): 2.1 to 3.1
- Average annual precipitation (1961-90, mm): 641
- Projected annual precipitation change (2045-65, mm): 31 to 89
- Projected change in annual hot days/warm nights: 2 / 5
- Projected change in annual cool days/cold nights: -2 / -2

### Exposure to Impacts

| Country          | Europe & Central Asia | Upper middle income |
|------------------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 3.0 | 2.5 | 1.8 |
| Population below 5m (% of total) | 23.9 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 18 | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | -1.0 | 0.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 2.4 | 6.5 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 0.0 | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 17.8 | 7.5 | 13.6 |
| Under-five mortality rate (per 1,000) | 10 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | .. | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | .. | 80 |

### Resilience

- Access to improved sanitation (% of total pop.): 78 / 89 / 68
- Access to improved water source (% of total pop.): 99 / 95 / 92
- Cereal yield (kg. per hectare): 3,075 / 2,475 / 3,690
- Access to electricity (% of total population): .. / .. / 98.0
- Paved roads (% of total roads): 100.0 / 85.8 / 50.5
- Health workers (per 1,000 people): 7.8 / 9.9 / 4.5
- Foreign direct investment, net inflows (% of GDP): 1.4 / 2.8 / 2.7
- Invest. in infrastructure w/private participation ($ millions): 122 / 22,652 / 26,166
- Disaster risk reduction progress score (1-5 scale; 5 = best): .. / .. / 4.1
- Ease of doing business (ranking 1-183; 1 = best): 21
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best): .. / .. / 50.5
- Primary completion rate, total (% of relevant age group): 93 / 95 / 98
- Ratio of girls to boys in primary & secondary school (%): 100 / 97 / 103

### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons): 3.3 / 7.7 / 5.3
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $): 213.9 / 708.0 / 659.4
- CO₂ emissions, total (MtCO₂): 7.6 / 3,110 / 12,860
- GHG net emissions/removals by LUCF (2009, MtCO₂e): -20.5 / .. / ..
- Methane (CH₄) emissions, total (MtCO₂e): 3.1 / 937 / 3,455
- Nitrous oxide (N₂O) emissions, total (MtCO₂e): 1.3 / 214 / 1,144
- Other GHG emissions, total (MtCO₂e): 0.9 / 76 / 243
- Energy use per capita (kilograms of oil equivalent): 1,871 / 2,833 / 1,848
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $): 144.9 / 276.8 / 227.1

### National-Level Actions

- Latest UNFCCC national communication: 3/16/2010 (5th)
- Annex-I emissions reduction target (base year: 1990): 20% / 30% (EU)
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: Yes

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: 0
- Issued Emission Reduction Units (ERUs) from JI (thousands): 0
## Lebanon

| Population (millions) | GDP ($ billions) | GNI per capita (Atlas $) |
|-----------------------|-----------------|--------------------------|
| 4.2                   | 39.2            | 9,080                    |

### Climate

- Average daily min/max temperature (1961–90, Celsius): 11 / 22
- Projected annual temperature change (2045–65, Celsius): 2.0 to 2.9
- Average annual precipitation (1961–90, mm): 661
- Projected annual precipitation change (2045–65, mm): -75 to -27
- Projected change in annual hot days/warm nights: 4 / 7
- Projected change in annual cool days/cold nights: -2 / -2

### Exposure to Impacts

| Land area below 5m (% of land area) | Population below 5m (% of total) | Urban pop. growth (avg. annual %, 1990–2010) | Droughts, floods, extreme temps (% pop., avg., 1990–2009) | Annual freshwater withdrawals (% of internal resources) | Agricultural land under irrigation (% of total ag. land) | Population living below $1.25 a day (% of total) | Nationally terrestrial protected areas (% of total land area) | Under-five mortality rate (per 1,000) | Child malnutrition, underweight (% of under age five) | Malaria incidence rate (per 100,000 people) | Access to improved sanitation (% of total pop.) | Access to improved water source (% of total pop.) | Cereal yield (kg. per hectare) | Access to electricity (% of total population) | Paved roads (% of total roads) | Health workers (per 1,000 people) | Foreign direct investment, net inflows (% of GDP) | Invest. in infrastructure w/private participation ($ millions) | Disaster risk reduction progress score (1–5 scale; 5 = best) | Ease of doing business (ranking 1–183; 1 = best) | Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | Primary completion rate, total (% of relevant age group) | Ratio of girls to boys in primary & secondary school (%) |
|-----------------------------------|------------------|----------------------------|-----------------------------------------------|-------------------------------------------------|-------------------------------------------------|---------------------|------------------------------------|----------------------|---------------------------------|-------------------------------|-----------------------------------|-----------------------------------|-------------------|-----------------------------|---------------------------|-----------------------------|-----------------------------|-------------------------------------------------|--------------------------------|-----------------------------|-----------------------------------|-----------------------------|-----------------------------------------------|
| Country                          | Middle East & N. Africa | Upper middle income | Country                          | Middle East & N. Africa | Upper middle income | Country                          | Middle East & N. Africa | Upper middle income | Country                          | Middle East & N. Africa | Upper middle income | Country                          | Middle East & N. Africa | Upper middle income | Country                          | Middle East & N. Africa | Upper middle income | Country                          | Middle East & N. Africa | Upper middle income | Country                          | Middle East & N. Africa | Upper middle income | Country                          | Middle East & N. Africa | Upper middle income | Country                          | Middle East & N. Africa | Upper middle income | Country                          | Middle East & N. Africa | Upper middle income | Country                          | Middle East & N. Africa | Upper middle income |
| Lebanon                          | 1.7              | 1.4                         | Lebanon                          | 9.1                 | 9.7                         | Lebanon                          | 2.0                 | 2.5                         | Lebanon                          | 0.0                 |                     | Lebanon                          | 26.3                | 121.9                        | Lebanon                          | 19.9                | 6.5                         | Lebanon                          | 0.5                 | 13.6                        | Lebanon                          | 22                  | 34                          | Lebanon                          | 4.2                 | 6.8                         | Lebanon                          | 8.0                 | 80                          | |

### Resilience

- Access to improved sanitation (% of total pop.) | 98 | 84 | 68
- Access to improved water source (% of total pop.) | 100 | 87 | 92
- Cereal yield (kg. per hectare) | 2,832 | 2,512 | 3,690
- Access to electricity (% of total population) | 99.9 | 92.9 | 98.0
- Paved roads (% of total roads) | 74.3 | 50.5 |
- Health workers (per 1,000 people) | 5.8 | 3.6 | 4.5
- Foreign direct investment, net inflows (% of GDP) | 12.7 | 2.9 | 2.7
- Invest. in infrastructure w/private participation ($ millions) | 5,854 | 26,166 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.0 |
- Ease of doing business (ranking 1–183; 1 = best) | 104 |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. |
- Primary completion rate, total (% of relevant age group) | 85 | 88 | 98
- Ratio of girls to boys in primary & secondary school (%) | 104 | 93 | 103

### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons) | 4.1 | 3.8 | 5.3
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 372.5 | 604.6 | 659.4
- CO₂ emissions, total (MtCO₂) | 17.1 | 1,230 | 12,860
- GHG net emissions/removals by LUCF (2000, MtCO₂e) | .. |
- Methane (CH₄) emissions, total (MtCO₂e) | 1.0 | 287 | 3,455
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 0.7 | 74 | 1,144
- Other GHG emissions, total (MtCO₂e) | 0.0 | 7 | 243
- Energy use per capita (kilograms of oil equivalent) | 1,580 | 1,399 | 1,848
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 133.2 | 213.9 | 227.1

### National-Level Actions

- Latest UNFCCC national communication | 3/31/2011 (2nd) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | .. |
- NAPA submission | n/a |
- Renewable energy target | Yes |

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects | 0 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
Lesotho

| Population (millions) | 2.2 | GDP ($ billions) | 2.1 |
|-----------------------|-----|-----------------|-----|
| Pop. growth (avg. ann. %, 1990-2010) | 1.4 | GNI per capita (Atlas $) | 1,040 |

**Climate**

- Average daily min/max temperature (1961-90, Celsius): 5 / 19
- Projected annual temperature change (2045-65, Celsius): 2.0 to 2.5
- Average annual precipitation (1961-90, mm): 789
- Projected annual precipitation change (2045-65, mm): -66 to 89
- Projected change in annual hot days/warm nights: 4 / 10
- Projected change in annual cool days/cold nights: -2 / -2

**Exposure to Impacts**

| Country data | Sub-Saharan Africa | Lower middle income |
|--------------|--------------------|---------------------|
| Land area below 5m (% of land area) | 0.0 | 0.4 | 1.7 |
| Population below 5m (% of total) | 0.0 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 14 | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 4.7 | 4.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 3.4 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 1.0 | 3.2 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 43.4 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.5 | 11.7 | 9.5 |
| Under-five mortality rate (per 1,000) | 85 | 121 | 69 |
| Child malnutrition, underweight (% of under age five) | 16.6 | 24.6 | 31.7 |
| Malaria incidence rate (per 100,000 people) | .. | 26,113 | 4,874 |

**Resilience**

- Access to improved sanitation (% of total pop.) | 29 | 31 | 45 |
- Access to improved water source (% of total pop.) | 85 | 60 | 84 |
- Cereal yield (kg. per hectare) | 421 | 1,297 | 2,754 |
- Access to electricity (% of total population) | 16.0 | 32.5 | 67.3 |
- Paved roads (% of total roads) | 18.3 | 18.3 | 29.3 |
- Health workers (per 1,000 people) | 0.7 | 1.2 | 2.6 |
- Foreign direct investment, net inflows (% of GDP) | 5.5 | 3.6 | 2.4 |
- Invest. in infrastructure w/private participation ($ millions) | 11 | 11,957 | 81,789 |
- Disaster risk reduction progress score (1-5 scale: 5 = best) | 2.5 | .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) | 143 | .. | .. |
- Public sector mgmt & institutions avg. (1-6 scale: 6 = best) | 3.5 | .. | .. |
- Primary completion rate, total (% of relevant age group) | 69 | 67 | 88 |
- Ratio of girls to boys in primary & secondary school (%) | 107 | 89 | 93 |

**GHG Emissions and Energy Use**

- CO₂ emissions per capita (metric tons) | .. | 0.8 | 1.6 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 428.6 | 523.9 |
- CO₂ emissions, total (MtCO₂) | .. | 685 | 3,744 |
- GHG net emissions/removals by LUCF (1994, MtCO₂e) | 1.3 | .. | .. |
- Methane (CH₄) emissions, total (MtCO₂e) | .. | 590 | 1,705 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 334 | 687 |
- Other GHG emissions, total (MtCO₂e) | .. | .. | .. |
- Energy use per capita (kilograms of oil equivalent) | 9 | 689 | 680 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 7.0 | 308.4 | 217.9 |

**National-Level Actions**

- Latest UNFCCC national communication | 4/17/2000 (1st) | .. | .. |
- Annex-I emissions reduction target | n/a | .. | .. |
- NAMA submission | .. | .. | .. |
- NAPA submission | Yes | .. | .. |
- Renewable energy target | .. | .. | .. |

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects | 0 | .. | .. |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 | .. | .. |
- Hosted Joint Implementation (JI) projects | n/a | .. | .. |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. | .. |
Liberia

Population (millions) 4.0  GDP ($ millions) 986.2  
Growth (avg. ann. %, 1990–2010) 3.2  GNI per capita (Atlas $) 200

Climate
Average daily min/max temperature (1961–90, Celsius) 20 / 31
Projected annual temperature change (2045–65, Celsius) 1.7 to 2.2
Average annual precipitation (1961–90, mm) 2,391
Projected annual precipitation change (2045–65, mm) -115 to 81
Projected change in annual hot days/warm nights 10 / 25
Projected change in annual cool days/cold nights -3 / -3

Exposure to Impacts
| Country data | Sub-Saharan Africa | Low income |
|--------------|--------------------|------------|
| Land area below 5m (% of land area) | 0.4 | 0.4 | 0.7 |
| Population below 5m (% of total) | 3.3 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | 30 | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.7 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 1.9 |
| Annual freshwater withdrawals (% of internal resources) | 0.1 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 83.7 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 18.1 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 103 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 20.4 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 29,994 | 26,113 | 16,859 |

Resilience
Access to improved sanitation (% of total pop.) 17 | 31 | 35 |
Access to improved water source (% of total pop.) 68 | 60 | 63 |
Cereal yield (kg. per hectare) 1,610 | 1,297 | 2,047 |
Access to electricity (% of total population) .. | 32.5 | 23.0 |
Paved roads (% of total roads) 6.2 | 18.3 | 14.1 |
Health workers (per 1,000 people) 0.3 | 1.2 | 0.7 |
Foreign direct investment, net inflows (% of GDP) 25.1 | 3.6 | 3.2 |
Invest. in infrastructure w/private participation ($ millions) 135 | 11,957 | 4,471 |
Disaster risk reduction progress score (1–5 scale; 5 = best) .. |
Ease of doing business (ranking 1–183; 1 = best) 151 |
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) 2.8 |
Primary completion rate, total (% of relevant age group) 58 | 67 | 65 |
Ratio of girls to boys in primary & secondary school (%) 72 | 89 | 91 |

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 0.2 | 0.8 | 0.3 |
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 447.7 | 428.6 | 270.2 |
CO₂ emissions, total (MtCO₂) 0.6 | 685 | 219 |
GHG net emissions/removals by LUCF (MtCO₂e) .. |
Methane (CH₄) emissions, total (MtCO₂e) .. | 590 | 436 |
Nitrous oxide (N₂O) emissions, total (MtCO₂e) .. | 334 | 209 |
Other GHG emissions, total (MtCO₂e) .. |
Energy use per capita (kilograms of oil equivalent) 689 | 365 |
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 308.4 | 303.9 |

National-Level Actions
Latest UNFCCC national communication .. |
Annex-I emissions reduction target n/a |
NAMA submission .. |
NAPA submission Yes |
Renewable energy target .. |

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 1 |
Issued Certified Emission Reductions (CERs) from CDM (thousands) 0 |
Hosted Joint Implementation (JI) projects n/a |
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a |
**Exposure to Impacts**

| Country         | Middle East & N. Africa | Upper middle income |
|-----------------|-------------------------|---------------------|
| Population below 5m (% of total) | 14 / 29 | 1.9 to 2.4 |
| Population in urban agglomerations > 1 million (%) | 2.0 / 2.4 | 2.0 to 2.4 |
| Urban pop. growth (avg. annual %, 1990–2010) | 57 | 6.5 to 6.5 |
| Droughts, floods, extreme temps (°C pop. avg., 1990–2009) | -18 to 5 | -18 to 5 |
| Annual freshwater withdrawals (% of internal resources) | 718.0 / 121.9 | 121.9 to 121.9 |
| Agricultural land under irrigation (% of total ag. land) | .. .. | .. |
| Population living below $1.25 a day (% of total) | .. .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 17 / 20 | 17 to 20 |
| Under-five mortality rate (per 1,000) | 17 / 34 | 17 to 34 |
| Child malnutrition, underweight (% of under age five) | 5.6 / 6.8 | 5.6 to 6.8 |
| Malaria incidence rate (per 100,000 people) | .. .. | .. |

**Resilience**

| Country         | Middle East & N. Africa | Upper middle income |
|-----------------|-------------------------|---------------------|
| Access to improved sanitation (% of total pop.) | 97 / 84 | 84 to 84 |
| Access to improved water source (% of total pop.) | 54 / 87 | 87 to 87 |
| Cereal yield (kg. per hectare) | 569 / 2,512 | 2,512 to 2,512 |
| Access to electricity (% of total population) | 99.8 / 92.9 | 92.9 to 92.9 |
| Paved roads (% of total roads) | 57.2 / 74.3 | 74.3 to 74.3 |
| Health workers (per 1,000 people) | 8.7 / 3.6 | 3.6 to 3.6 |
| Foreign direct investment, net inflows (% of GDP) | 2.7 / 5,854 | 2.7 to 5,854 |
| Invest. in infrastructure w/private participation ($ millions) | 26,166 / .. | 26,166 to .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 88 / 98 | 88 to 98 |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 105 / 93 | 93 to 93 |
| Primary completion rate, total (% of relevant age group) | 105 / 93 | 93 to 93 |
| Ratio of girls to boys in primary & secondary school (%) | 105 / 93 | 93 to 93 |

**GHG Emissions and Energy Use**

| Country         | Middle East & N. Africa | Upper middle income |
|-----------------|-------------------------|---------------------|
| CO₂ emissions per capita (metric tons) | 9.5 / 3.8 | 3.8 to 3.8 |
| CO₂ emissions per units of GDP (kg/$1.000 of 2005 PPP $) | 619.1 / 604.6 | 604.6 to 604.6 |
| CO₂ emissions, total (MtCO₂) | 58.3 / 1,230 | 1,230 to 1,230 |
| GHG net emissions/removals by LUCF (MtCO₂) | .. .. | .. |
| Methane (CH₄) emissions, total (MtCO₂) | 14.7 / 287 | 287 to 287 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂) | 1.3 / 74 | 74 to 74 |
| Other GHG emissions, total (MtCO₂) | 0.3 / 7 | 7 to 7 |
| Energy use per capita (kilograms of oil equivalent) | 3,258 / 1,399 | 1,399 to 1,399 |
| Energy use per units of GDP (kg oil eq./$1.000 of 2005 PPP $) | 212.1 / 213.9 | 213.9 to 213.9 |

**National-Level Actions**

| Country         | Middle East & N. Africa | Upper middle income |
|-----------------|-------------------------|---------------------|
| Latest UNFCCC national communication | .. .. | .. |
| Annex-I emissions reduction target | n/a | n/a |
| NAMA submission | .. .. | .. |
| NAPA submission | n/a | n/a |
| Renewable energy target | Yes | Yes |

**Carbon Markets**

| Country         | Middle East & N. Africa | Upper middle income |
|-----------------|-------------------------|---------------------|
| Hosted Clean Development Mechanism (CDM) projects | 0 | 0 |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 | 0 |
| Hosted Joint Implementation (JI) projects | n/a | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | n/a |
Population (thousands) 36.0 GDP ($ billions) 4.8 Pop. growth (avg. ann. %, 1990–2010) 1.1 GNI per capita (Atlas $) 137,070

Climate
Average daily min/max temperature (1961–90, Celsius) 2 / 9
Projected annual temperature change (2045–65, Celsius) 1.7 to 2.8
Average annual precipitation (1961–90, mm) 1,539
Projected annual precipitation change (2045–65, mm) –66 to 32
Projected change in annual hot days/warm nights 3 / 5
Projected change in annual cool days/cold nights –1 / -1

Exposure to Impacts
Land area below 5m (% of land area) 0.0 2.2
Population below 5m (% of total) 0.0 7.7
Population in urban agglomerations > 1 million (%) .. ..
Urban pop. growth (avg. annual %, 1990–2010) 0.2 1.0
Droughts, floods, extreme temps (% pop. avg., 1990–2009) .. ..
Annual freshwater withdrawals (% of internal resources) .. 10.4
Agricultural land under irrigation (% of total ag. land) .. ..
Population living below $1.25 a day (% of total) 42.4 13.4
Under-five mortality rate (per 1,000) 2 6
Child malnutrition, underweight (% of under age five) .. ..
Malaria incidence rate (per 100,000 people) .. ..

Resilience
Access to improved sanitation (% of total pop.) .. 100
Access to improved water source (% of total pop.) .. 100
Cereal yield (kg. per hectare) .. 5,445
Access to electricity (% of total population) .. ..
Paved roads (% of total roads) .. 87.3
Health workers (per 1,000 people) .. 10.7
Foreign direct investment, net inflows (% of GDP) .. 1.8
Invest. in infrastructure w/private participation ($ millions) .. ..
Disaster risk reduction progress score (1–5 scale; 5 = best) .. ..
Ease of doing business (ranking 1–183; 1 = best) .. ..
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) .. ..
Primary completion rate, total (% of relevant age group) 107 97
Ratio of girls to boys in primary & secondary school (%) 93 100

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) .. 11.9
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) .. 354.4
CO₂ emissions, total (MtCO₂) .. 13,285
GHG net emissions/removals by LUCF (2009, MtCO₂e) .. 0.0
Methane (CH₄) emissions, total (MtCO₂e) .. 1,539
Nitrous oxide (N₂O) emissions, total (MtCO₂e) .. 813
Other GHG emissions, total (MtCO₂e) .. 460
Energy use per capita (kilograms of oil equivalent) .. 4,944
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) .. 147.0

National-Level Actions
Latest UNFCCC national communication 1/25/2010 (5th)
Annex-I emissions reduction target (base year: 1990) 20% / 30%
NAMA submission n/a
NAPA submission n/a
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects n/a
Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a
Hosted Joint Implementation (JI) projects ..
Issued Emission Reduction Units (ERUs) from JI (thousands) ..
## Lithuania

| Population (millions) | 3.3 | GDP ($ billions) | 36.3 |
|-----------------------|-----|-----------------|------|
| Pop. growth (avg. ann. %, 1990–2010) | -0.5 | GNI per capita (Atlas $) | 11,390 |

### Climate
- Average daily min/max temperature (1961–90, Celsius): 2 / 10
- Projected annual temperature change (2045–65, Celsius): 2.0 to 3.0
- Average annual precipitation (1961–90, mm): 656
- Projected annual precipitation change (2045–65, mm): 22 to 83
- Projected change in annual hot days/warm nights: 2 / 5
- Projected change in annual cool days/cold nights: -2 / -2

### Exposure to Impacts

| Country data | Europe & Central Asia | Upper middle income |
|--------------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 1.9 | 2.5 | 1.8 |
| Population below 5m (% of total) | 4.0 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 18 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | -0.6 | 0.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 17.7 | 6.5 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 4.5 | 7.5 | 13.6 |
| Under-five mortality rate (per 1,000) | 7 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | .. | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | .. | 80 |

### Resilience
- Access to improved sanitation (% of total pop.) | .. | 89 | 68 |
- Access to improved water source (% of total pop.) | .. | 95 | 92 |
- Cereal yield (kg. per hectare) | 3,450 | 2,475 | 3,690 |
- Access to electricity (% of total population) | .. | .. | 98.0 |
- Paved roads (% of total roads) | 28.6 | 85.8 | 50.5 |
- Health workers (per 1,000 people) | 11.0 | 9.9 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | 1.7 | 2.8 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 104 | 22,652 | 26,166 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1–183; 1 = best) | 27 | .. | .. |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. | .. |
- Primary completion rate, total (% of relevant age group) | 96 | 95 | 98 |
- Ratio of girls to boys in primary & secondary school (%) | 99 | 97 | 103 |

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 4.5 | 7.7 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 255.8 | 708.0 | 659.4 |
- CO₂ emissions, total (MtCO₂) | 15.1 | 3,110 | 12,860 |
- GHG net emissions/removals by LUCF (2009, MtCO₂e) | -3.7 | .. | .. |
- Methane (CH₄) emissions, total (MtCO₂e) | 5.5 | 937 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 2.5 | 214 | 1,144 |
- Other GHG emissions, total (MtCO₂e) | 0.7 | 76 | 243 |
- Energy use per capita (kilograms of oil equivalent) | 2,512 | 2,833 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 166.3 | 276.8 | 227.1 |

### National-Level Actions
- Latest UNFCCC national communication | 2/22/2010 (5th) | .. | .. |
- Annex-I emissions reduction target (base year: 1990) | 20% / 30% (EU) | .. | .. |
- NAMA submission | .. | .. | .. |
- NAPA submission | .. | .. | .. |
- Renewable energy target | Yes | .. | .. |

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | n/a | .. | .. |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a | .. | .. |
- Hosted Joint Implementation (JI) projects | 12 | .. | .. |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | 2,408 | .. | .. |
### Luxembourg

| Population (thousands) | GDP ($ billions) | GNI per capita (Atlas $) |
|------------------------|-----------------|--------------------------|
| 505.8                  | 1.4             | 55.1                     |

#### Climate
- Average daily min/max temperature (1961–90, Celsius): 4 / 13
- Projected annual temperature change (2045–65, Celsius): 1.5 to 2.5
- Average annual precipitation (1961–90, mm): 934
- Projected annual precipitation change (2045–65, mm): -86 to 26
- Projected change in annual hot days/warm nights: 3 / 5
- Projected change in annual cool days/cold nights: -1 / -1

#### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 0.0 | 2.2 |
| Population below 5m (% of total) | 0.0 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.5 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | 19.8 | 13.4 |
| Under-five mortality rate (per 1,000) | 3 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malana incidence rate (per 100,000 people) | .. | .. |

#### Resilience

| Country data | High income |
|--------------|-------------|
| Access to improved sanitation (% of total pop.) | 100 | 100 |
| Access to improved water source (% of total pop.) | 100 | 100 |
| Cereal yield (kg. per hectare) | 6,202 | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 100.0 | 87.3 |
| Health workers (per 1,000 people) | 2.9 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 279.2 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 50 | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 84 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 102 | 100 |

#### GHG Emissions and Energy Use

| Country data | High income |
|--------------|-------------|
| CO₂ emissions per capita (metric tons) | 21.5 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 291.0 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 10.5 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -0.3 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 1.1 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 0.5 | 813 |
| Other GHG emissions, total (MtCO₂e) | 0.1 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 8,313 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 116.8 | 147.0 |

#### National-Level Actions

| Country data | High income |
|--------------|-------------|
| Latest UNFCCC national communication | 2/14/2010 (5th) | .. |
| Annex-I emissions reduction target (base year: 1990) | 20% / 30% (EU) | .. |
| NAMA submission | n/a | .. |
| NAPA submission | n/a | .. |
| Renewable energy target | Yes | .. |

#### Carbon Markets

| Country data | High income |
|--------------|-------------|
| Hosted Clean Development Mechanism (CDM) projects | n/a | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a | .. |
| Hosted Joint Implementation (JI) projects | .. | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | .. | .. |
### Macao SAR, China

| Population (thousands) | GDP ($ billions) | GNI per capita (Atlas $) |
|------------------------|-----------------|-------------------------|
| 543.7                  | 21.7            | 40,030                  |

#### Climate

- Average daily min/max temperature (1961-90, Celsius) **20 / 26**
- Projected annual temperature change (2045-65, Celsius) **1.4 to 1.9**
- Average annual precipitation (1961-90, mm) **2,219**
- Projected annual precipitation change (2045-65, mm) **-83 to 73**
- Projected change in annual hot days/warm nights **7 / 10**
- Projected change in annual cool days/cold nights **-1 / -1**

#### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 35.4 | 2.2 |
| Population below 5m (% of total) | 79.9 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 2.1 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | .. | 13.4 |
| Under-five mortality rate (per 1,000) | .. | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

#### Resilience

| Access to improved sanitation (% of total pop.) | .. | 100 |
| Access to improved water source (% of total pop.) | .. | 100 |
| Cereal yield (kg, per hectare) | .. | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Pavd roads (% of total roads) | 100.0 | 87.3 |
| Health workers (per 1,000 people) | .. | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 8.3 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1-183; 1 = best) | .. | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 99 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 95 | 100 |

#### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 2.6 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 46.0 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 1.3 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 813 |
| Other GHG emissions, total (MtCO₂e) | .. | 460 |
| Energy use per capita (kilograms of oil equivalent) | .. | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 147.0 |

#### National-Level Actions

- Latest UNFCCC national communication: n/a
- Annex-I emissions reduction target: n/a
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: ..

#### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
### Macedonia, FYR

| Population (millions) | 2.1 | GDP ($ billions) | 9.1 |
|----------------------|-----|-----------------|-----|
| Pop. growth (avg. ann. %, 1990–2010) | 0.4 | GNI per capita (Atlas $) | 4,520 |

#### Climate

- **Average daily min/max temperature (1961–90, Celsius)**: 5 / 15
- **Projected annual temperature change (2045–65, Celsius)**: 1.9 to 3.0
- **Average annual precipitation (1961–90, mm)**: 619
- **Projected annual precipitation change (2045–65, mm)**: -150 to -43
- **Projected change in annual hot days/warm nights**: 3 / 6
- **Projected change in annual cool days/cold nights**: -1 / -1

#### Exposure to Impacts

| Country data | Europe & Central Asia | Upper middle income |
|--------------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 0.0 | 2.5 | 1.8 |
| Population below 5m (% of total) | 0.0 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 18 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.2 | 0.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.3 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 28.8 | 6.5 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 7.3 | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 4.8 | 7.5 | 13.6 |
| Under-five mortality rate (per 1,000) | 12 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 1.8 | .. | 4.1 |
| Malanum incidence rate (per 100,000 people) | .. | .. | 80 |

#### Resilience

- **Access to improved sanitation (% of total pop.)**: 89
- **Access to improved water source (% of total pop.)**: 100
- **Cereal yield (kg. per hectare)**: 3,373
- **Access to electricity (% of total population)**: 95
- **Paved roads (% of total roads)**: 56.5
- **Health workers (per 1,000 people)**: 6.9
- **Foreign direct investment, net inflows (% of GDP)**: 3.2
- **Invest. in infrastructure w/private participation ($ millions)**: 86
- **Disaster risk reduction progress score (1–5 scale; 5 = best)**: 3.3
- **Ease of doing business (ranking 1–183; 1 = best)**: 22
- **Public sector mgmt & institutions avg. (1–6 scale; 6 = best)**: ..
- **Primary completion rate, total (% of relevant age group)**: 92
- **Ratio of girls to boys in primary & secondary school (%)**: 99

#### GHG Emissions and Energy Use

- **CO₂ emissions per capita (metric tons)**: 5.8
- **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)**: 655.2
- **CO₂ emissions, total (MtCO₂)**: 11.8
- **GHG net emissions/removals by LUCF (2002, MtCO₂e)**: -2.6
- **Methane (CH₄) emissions, total (MtCO₂e)**: 1.4
- **Nitrous oxide (N₂O) emissions, total (MtCO₂e)**: 0.6
- **Other GHG emissions, total (MtCO₂e)**: 0.1
- **Energy use per capita (kilograms of oil equivalent)**: 1,352
- **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)**: 155.6

#### National-Level Actions

- **Latest UNFCCC national communication**: 1/15/2009 (2nd)
- **Annex-I emissions reduction target**: n/a
- **NAMA submission**: Yes
- **NAPA submission**: n/a
- **Renewable energy target**: ..

#### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: 1
- Issued Certified Emission Reductions (CERs) from CDM (thousands): 0
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
### Climate

- Average daily min/max temperature (1961–90, Celsius): 18 / 27
- Projected annual temperature change (2045–65, Celsius): 1.7 to 2.1
- Average annual precipitation (1961–90, mm): 1,513
- Projected annual precipitation change (2045–65, mm): -104 to 56
- Projected change in annual hot days/warm nights: 8 / 16
- Projected change in annual cool days/cold nights: -3 / -3

### Exposure to Impacts

| Country | Sub-Saharan Africa | Low income |
|---------|-------------------|------------|
| Land area below 5m (% of land area) | 1.3 | 0.4 | 0.7 |
| Population below 5m (% of total) | 2.0 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | 9 | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.3 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.9 | | |
| Annual freshwater withdrawals (% of internal resources) | 4.4 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | | | |
| Population living below $1.25 a day (% of total) | 67.8 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 2.9 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 62 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 36.8 | 24.6 | 28.3 |
| Malnutrition incidence rate (per 100,000 people) | 3,735 | 20,113 | 16,859 |

### Resilience

- Access to improved sanitation (% of total pop.) | 11 | 31 | 35 |
- Access to improved water source (% of total pop.) | 41 | 60 | 63 |
- Cereal yield (kg, per hectare) | 2,582 | 1,297 | 2,047 |
- Access to electricity (% of total population) | 19.0 | 32.5 | 23.0 |
- Paved roads (% of total roads) | 11.6 | 18.3 | 14.1 |
- Health workers (per 1,000 people) | 0.2 | 1.2 | 0.7 |
- Foreign direct investment, net inflows (% of GDP) | 9.9 | 3.6 | 3.2 |
- Invest. in infrastructure w/private participation ($ millions) | 132 | 11,957 | 4,471 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.8 | | |
- Ease of doing business (ranking 1–183; 1 = best) | 137 | | |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 3.0 | | |
- Primary completion rate, total (% of relevant age group) | 79 | 67 | 65 |
- Ratio of girls to boys in primary & secondary school (%) | 97 | 89 | 91 |

### GHG Emissions and Energy Use

- CO2 emissions per capita (metric tons) | 0.1 | 0.8 | 0.3 |
- CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 102.9 | 428.6 | 270.2 |
- CO2 emissions, total (MtCO2) | 1.9 | 685 | 219 |
- GHG net emissions/removals by LUCF (2000, MtCO2e) | -233.3 | | |
- Methane (CH4) emissions, total (MtCO2e) | .. | 590 | 436 |
- Nitrous oxide (N2O) emissions, total (MtCO2e) | .. | 334 | 209 |
- Other GHG emissions, total (MtCO2e) | .. | .. | .. |
- Energy use per capita (kilograms of oil equivalent) | .. | 689 | 365 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 308.4 | 303.9 |

### National-Level Actions

- Latest UNFCCC national communication | 12/7/2010 (2nd) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | Yes |
- NAPA submission | Yes |
- Renewable energy target | Yes |

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects | 1 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
Population (millions) 14.9 GDP ($ billions) 5.1
Pop. growth (avg. ann. %, 1990–2010) 2.3 GNI per capita (Atlas $) 330

Climate
Average daily min/max temperature (1961–90, Celsius) 17 / 27
Projected annual temperature change (2045–65, Celsius) 2.0 to 2.5
Average annual precipitation (1961–90, mm) 1,181
Projected annual precipitation change (2045–65, mm) -53 to 91
Projected change in annual hot days/warm nights 4 / 16
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts

| Country data | Sub-Saharan Africa | Low income |
|--------------|-------------------|------------|
| Land area below 5m (% of land area) | 0.0 | 0.4 | 0.7 |
| Population below 5m (% of total) | 0.0 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | .. | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 5.0 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 8.8 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 6.0 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | 0.5 | .. | .. |
| Population living below $1.25 a day (% of total) | 73.9 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 15.0 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 92 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 15.5 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 33,773 | 26,113 | 16,859 |

Resilience

Access to improved sanitation (% of total pop.) 56 31 35
Access to improved water source (% of total pop.) 80 60 63
Cereal yield (kg, per hectare) 2,163 1,297 2,047
Access to electricity (% of total population) 9.0 32.5 23.0
Paved roads (% of total roads) 45.0 18.3 14.1
Health workers (per 1,000 people) 0.3 1.2 0.7
Foreign direct investment, net inflows (% of GDP) 2.7 3.6 3.2
Invest. in infrastructure w/private participation ($ millions) 116 11,957 4,471
Disaster risk reduction progress score (1–5 scale; 5 = best) 1.8
Ease of doing business (ranking 1–183; 1 = best) 145
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) 3.4
Primary completion rate, total (% of relevant age group) 59 67 65
Ratio of girls to boys in primary & secondary school (%) 100 89 91

GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.1 | 0.8 | 0.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 120.1 | 428.6 | 270.2 |
| CO₂ emissions, total (MtCO₂) | 1.2 | 685 | 219 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | 17.5 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 590 | 436 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 334 | 209 |
| Other GHG emissions, total (MtCO₂e) | .. | .. | .. |
| Energy use per capita (kilograms of oil equivalent) | .. | 689 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 308.4 | 303.9 |

National-Level Actions

Latest UNFCCC national communication 12/2/2003 (1st)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission Yes
Renewable energy target Yes

Carbon Markets

Hosted Clean Development Mechanism (CDM) projects ..
Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
Malaysia

Population (millions) 28.4 GDP ($ billions) 237.8
Pop. growth (avg. ann. %, 1990–2010) 2.2 GNI per capita (Atlas $) 7,760

Climate
Average daily min/max temperature (1961–90, Celsius) 21 / 30
Projected annual temperature change (2045–65, Celsius) 1.6 to 1.9
Average annual precipitation (1961–90, mm) 2,875
Projected annual precipitation change (2045–65, mm) -160 to 117
Projected change in annual hot days/warm nights 13 / 26
Projected change in annual cool days/cold nights -2 / -3

Exposure to Impacts

| Country data | East Asia & Pacific | Upper middle income |
|--------------|------------------|-------------------|
| Land area below 5m (% of land area) | 3.0 | 2.5 | 1.8 |
| Population below 5m (% of total) | 9.5 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 9 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.1 | 3.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.1 |
| Annual freshwater withdrawals (% of internal resources) | 2.1 | 10.8 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 17.9 | 14.9 | 13.6 |
| Under-five mortality rate (per 1,000) | 6 | 24 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | 9.0 | 4.1 |
| Malaria incidence rate (per 100,000 people) | 75 | 525 | 80 |

Resilience
Access to improved sanitation (% of total pop.) 96 59 68
Access to improved water source (% of total pop.) 100 88 92
Cereal yield (kg. per hectare) 3,750 4,860 3,690
Access to electricity (% of total population) 99.4 90.8 98.0
Paved roads (% of total roads) 82.8 15.9 50.5
Health workers (per 1,000 people) 3.7 2.8 4.5
Foreign direct investment, net inflows (% of GDP) 3.8 3.0 2.7
Invest. in infrastructure w/private participation ($ millions) 1,201 14,638 26,166
Disaster risk reduction progress score (1–5 scale; 5 = best) 3.8
Ease of doing business (ranking 1–183; 1 = best) 18
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) ..
Primary completion rate, total (% of relevant age group) 97 97 98
Ratio of girls to boys in primary & secondary school (%) 103 103 103

GHG Emissions and Energy Use

| GHG emissions per capita (metric tons) | CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | CO₂ emissions, total (MtCO₂) | GHG net emissions/removals by LUCF (2000, MtCO₂e) | Methane (CH₄) emissions, total (MtCO₂e) | Nitrous oxide (N₂O) emissions, total (MtCO₂e) | Other GHG emissions, total (MtCO₂e) | Energy use per capita (kilograms of oil equivalent) | Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) |
|--------------------------------------|----------------------------------------------------------|-----------------------------|-----------------------------------------------|------------------------------------------|---------------------------------------------|---------------------------------|-----------------------------------------------|--------------------------------------------------|
| 7.6 | 585.7 | 208.3 | -220.2 | 46.5 | 15.1 | 1.0 | 2,391 | 191.2 |
| 6.3 | 827.1 | 8,259 | 12,860 | 1,928 | 707 | 243 | 1,436 | 259.5 |
| 5.3 | 659.4 | 12,860 | 2,875 | 3,455 | 1,144 | 227.1 |

National-Level Actions
Latest UNFCCC national communication 4/14/2011 (2nd)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission n/a
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 101
Issued Certified Emission Reductions (CERs) from CDM (thousands) 1,475
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
Maldives

| Population (thousands) | 315.9 | GDP ($ billions) | 1.5 |
|------------------------|-------|-----------------|-----|
| Pop. growth (avg. ann. %, 1990-2010) | 1.8 | GNI per capita (Atlas $) | 4,240 |

**Climate**

- Average daily min/max temperature (1961-90, Celsius): 25 / 31
- Projected annual temperature change (2045-65, Celsius): 1.5 to 1.8
- Average annual precipitation (1961-90, mm): 1,972
- Projected annual precipitation change (2045-65, mm): -2 to 319
- Projected change in annual hot days/warm nights: 22 / 27
- Projected change in annual cool days/cold nights: -3 / -3

### Exposure to Impacts

| Country | South Asia | Upper middle income |
|---------|------------|---------------------|
| Land area below 5m (% of land area) | 100.0 | 1.5 | 1.8 |
| Population below 5m (% of total) | 100.0 | 4.5 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 13 | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | 4.1 | 2.7 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 50.6 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 40.3 | .. |
| Nationally terrestrial protected areas (% of total land area) | .. | 6.1 | 13.6 |
| Under-five mortality rate (per 1,000) | 15 | 67 | 20 |
| Child malnutrition, underweight (% of under age five) | 25.7 | 42.5 | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | 1,127 | 80 |

### Resilience

| Country | South Asia | Upper middle income |
|---------|------------|---------------------|
| Access to improved sanitation (% of total pop.) | 98 | 36 | 68 |
| Access to improved water source (% of total pop.) | 91 | 87 | 92 |
| Cereal yield (kg. per hectare) | 2,042 | 2,728 | 3,690 |
| Access to electricity (% of total population) | .. | 62.1 | 98.0 |
| Paved roads (% of total roads) | 100.0 | 58.9 | 50.5 |
| Health workers (per 1,000 people) | 6.0 | 1.7 | 4.5 |
| Foreign direct investment, net inflows (% of GDP) | 11.1 | 1.3 | 2.7 |
| Invest. in infrastructure w/private participation ($ millions) | 490 | 73,548 | 26,166 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 2.3 | .. | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 79 | .. | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 3.5 | .. | .. |
| Primary completion rate, total (% of relevant age group) | 119 | 86 | 98 |
| Ratio of girls to boys in primary & secondary school (%) | 98 | 92 | 103 |

### GHG Emissions and Energy Use

| Country | South Asia | Upper middle income |
|---------|------------|---------------------|
| CO₂ emissions per capita (metric tons) | 3.0 | 1.3 | 5.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 580.8 | 504.6 | 659.4 |
| CO₂ emissions, total (MtCO₂) | 0.9 | 1,970 | 12,860 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 846 | 3,455 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 268 | 1,144 |
| Other GHG emissions, total (MtCO₂e) | .. | 9 | 243 |
| Energy use per capita (kilograms of oil equivalent) | 985 | 532 | 1,848 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 200.3 | 193.5 | 227.1 |

### National-Level Actions

- Latest UNFCCC national communication | 11/5/2001 (1st)
- Annex-I emissions reduction target | n/a
- NAMA submission | Yes, with Goal
- NAPA submission | Yes
- Renewable energy target | ..

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects | ..
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | ..
- Hosted Joint Implementation (JI) projects | n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a
| Country data | Sub-Saharan Africa | Low income |
|-------------|-------------------|------------|
| Population (millions) | 15.4 | 15.4 |
| GDP ($ billions) | 9.3 | 9.3 |
| Pop. growth (avg. ann. %, 1990-2010) | 2.9 | 2.9 |
| GNI per capita (Atlas $) | 600 | 600 |

### Climate
- **Average daily min/max temperature (1961-90, Celsius)**: 21 / 36
- **Projected annual temperature change (2045-65, Celsius)**: 2.5 to 3.1
- **Average annual precipitation (1961-90, mm)**: 282
- **Projected annual precipitation change (2045-65, mm)**: -142 to 43
- **Projected change in annual hot days/warm nights**: 5 / 13
- **Projected change in annual cool days/cold nights**: -2 / -2

### Exposure to Impacts

| Metric                                                                                 | Mali |
|----------------------------------------------------------------------------------------|------|
| Land area below 5m (% of land area)                                                    | 0.0  |
| Population below 5m (% of total)                                                        | 0.0  |
| Population in urban agglomerations > 1 million (%)                                      | 11   |
| Urban pop. growth (avg. annual %, 1990–2010)                                            | 4.6  |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009)                               | 0.7  |
| Annual freshwater withdrawals (% of internal resources)                                | 10.9 |
| Agricultural land under irrigation (% of total ag. land)                               | ..   |
| Population living below $1.25 a day (% of total)                                        | 51.4 |
| Nationally terrestrial protected areas (% of total land area)                           | 2.4  |
| Under-five mortality rate (per 1,000)                                                   | 178  |
| Child malnutrition, underweight (% of under age five)                                  | 27.9 |
| Malaria incidence rate (per 100,000 people)                                            | 25,366 |

### Resilience

| Metric                                                                                 | Mali |
|----------------------------------------------------------------------------------------|------|
| Access to improved sanitation (% of total pop.)                                        | 36   |
| Access to improved water source (% of total pop.)                                      | 56   |
| Cereal yield (kg. per hectare)                                                         | 1,588|
| Access to electricity (% of total population)                                          | ..   |
| Paved roads (% of total roads)                                                          | 19.0 |
| Health workers (per 1,000 people)                                                      | 0.3  |
| Foreign direct investment, net inflows (% of GDP)                                      | 1.6  |
| Invest. in infrastructure w/private participation ($ millions)                         | 254  |
| Disaster risk reduction progress score (1–5 scale; 5 = best)                           | ..   |
| Ease of doing business (ranking 1–183; 1 = best)                                       | 146  |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best)                           | 3.4  |
| Primary completion rate, total (% of relevant age group)                               | 64   |
| Ratio of girls to boys in primary & secondary school (%)                               | 80   |

### GHG Emissions and Energy Use

| Metric                                                                                 | Mali |
|----------------------------------------------------------------------------------------|------|
| CO₂ emissions per capita (metric tons)                                                | 0.0  |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)                               | 44.2 |
| CO₂ emissions, total (MtCO₂)                                                          | 0.6  |
| GHG net emissions/removals by LUCF (1995, MtCO₂e)                                      | -9.7 |
| Methane (CH₄) emissions, total (MtCO₂e)                                                | ..   |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e)                                          | ..   |
| Other GHG emissions, total (MtCO₂e)                                                    | ..   |
| Energy use per capita (kilograms of oil equivalent)                                    | 0.8  |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)                          | 308.4|

### National-Level Actions

| Metric                                                                                 | Mali |
|----------------------------------------------------------------------------------------|------|
| Latest UNFCCC national communication                                                  | 11/13/2000 (1st) |
| Annex-I emissions reduction target                                                    | n/a  |
| NAMA submission                                                                       | ..   |
| NAPA submission                                                                       | Yes  |
| Renewable energy target                                                               | Yes  |

### Carbon Markets

| Metric                                                                                 | Mali |
|----------------------------------------------------------------------------------------|------|
| Hosted Clean Development Mechanism (CDM) projects                                      | 1    |
| Issued Certified Emission Reductions (CERs) from CDM (thousands)                        | 0    |
| Hosted Joint Implementation (JI) projects                                              | n/a  |
| Issued Emission Reduction Units (ERUs) from JI (thousands)                             | n/a  |
## Malta

| Population (thousands) | 413.0 | GDP ($ billions) | 8.0 |
|------------------------|-------|-----------------|-----|
| Pop. growth (avg. ann. %, 1990–2010) | 0.7 | GNI per capita (Atlas $) | 18,430 |

### Climate
- **Average daily min/max temperature (1961–90, Celsius):** 15 / 23
- **Projected annual temperature change (2045–65, Celsius):** 1.7 to 2.1
- **Average annual precipitation (1961–90, mm):** 383
- **Projected annual precipitation change (2045–65, mm):** -67 to -28
- **Projected change in annual hot days/warm nights:** 5 / 7
- **Projected change in annual cool days/cold nights:** -2 / -2

### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 19.4 | 2.2 |
| Population below 5m (% of total) | 21.8 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.9 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 53.5 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 22.2 | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 17.2 | 13.4 |
| Under-five mortality rate (per 1,000) | 6 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malanar incidence rate (per 100,000 people) | .. | .. |

### Resilience

- **Access to improved sanitation (% of total pop.):** 100
- **Access to improved water source (% of total pop.):** 100
- **Cereal yield (kg. per hectare):** 4,431
- **Access to electricity (% of total population):** 100
- **Paved roads (% of total roads):** 87.5
- **Health workers (per 1,000 people):** 9.7
- **Foreign direct investment, net inflows (% of GDP):** 9.4
- **Invest. in infrastructure w/private participation ($ millions):** ..
- **Disaster risk reduction progress score (1–5 scale; 5 = best):** ..
- **Public sector mgmt & institutions avg. (1–6 scale; 6 = best):** ..
- **Primary completion rate, total (% of relevant age group):** 100
- **Ratio of girls to boys in primary & secondary school (%):** 99

### GHG Emissions and Energy Use

| Country data | High income |
|--------------|-------------|
| CO₂ emissions per capita (metric tons) | 6.2 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 274.3 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 2.6 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -0.1 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 0.2 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 0.1 | 813 |
| Other GHG emissions, total (MtCO₂e) | 0.1 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 1,935 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 87.5 | 147.0 |

### National-Level Actions

- **Latest UNFCCC national communication:** 7/27/2010 (2nd)
- **Annex-I emissions reduction target (base year: 1990):** 20% / 30% (EU)
- **NAMA submission:** n/a
- **NAPA submission:** n/a
- **Renewable energy target:** Yes

### Carbon Markets

- **Hosted Clean Development Mechanism (CDM) projects:** ..
- **Issued Certified Emission Reductions (CERS) from CDM (thousands):** ..
- **Hosted Joint Implementation (JI) projects:** ..
- **Issued Emission Reduction Units (ERUs) from JI (thousands):** ..

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## Marshall Islands

| Population (thousands) | GDP ($ millions) | GNI per capita (Atlas $) |
|------------------------|------------------|--------------------------|
| 54.0                   | 155.8            | 3,450                    |

### Climate

|                          | Country data | East Asia & Pacific | Lower middle income |
|--------------------------|--------------|---------------------|---------------------|
| Average daily min/max temperature (1961-90, Celsius) | 25 / 30      |                     |                     |
| Projected annual temperature change (2045-65, Celsius) | 1.4 to 1.8   |                     |                     |
| Average annual precipitation (1961-90, mm) | 2,705        |                     |                     |
| Projected annual precipitation change (2045-65, mm) | 8 to 240    |                     |                     |
| Projected change in annual hot days/warm nights | 21 / 27     |                     |                     |
| Projected change in annual cool days/cold nights | -3 / -3     |                     |                     |

### Exposure to Impacts

|                          | Country data | East Asia & Pacific | Lower middle income |
|--------------------------|--------------|---------------------|---------------------|
| Land area below 5m (% of land area) | 99.0         | 2.5                 | 1.7                 |
| Population below 5m (% of total) | 99.4         | 10.3                | 6.5                 |
| Population in urban agglomerations > 1 million (%) | ..           | ..                  | 14                  |
| Urban pop. growth (avg. annual %, 1990-2010) | 1.2          | 3.3                 | 2.8                 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.1         |                     |                     |
| Annual freshwater withdrawals (% of internal resources) | ..           | 10.8                | 18.7                |
| Agricultural land under irrigation (% of total ag. land) | ..           | ..                  | ..                  |
| Population living below $1.25 a day (% of total) | ..           | 16.8                | ..                  |
| Nationally terrestrial protected areas (% of total land area) | 3.1          | 14.9                | 9.5                 |
| Under-five mortality rate (per 1,000) | 26           | 24                  | 69                  |
| Child malnutrition, underweight (% of under age five) | ..           | 9.0                 | 31.7                |
| Malaria incidence rate (per 100,000 people) | ..           | 525                 | 4,874               |

### Resilience

|                          | Country data | East Asia & Pacific | Lower middle income |
|--------------------------|--------------|---------------------|---------------------|
| Access to improved sanitation (% of total pop.) | 73           | 59                  | 45                  |
| Access to improved water source (% of total pop.) | 94           | 88                  | 84                  |
| Cereal yield (kg. per hectare) | ..           | 4,860               | 2,754               |
| Access to electricity (% of total population) | ..           | 90.8                | 67.3                |
| Paved roads (% of total roads) | ..           | 15.9                | 29.3                |
| Health workers (per 1,000 people) | 3.1          | 2.8                 | 2.6                 |
| Foreign direct investment, net inflows (% of GDP) | ..           | 14,638              | 81,789              |
| Invest. in infrastructure w/private participation ($ millions) | ..           |                     |                     |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | ..           | 1.8                 |                     |
| Ease of doing business (ranking 1-183; 1 = best) | ..           |                     |                     |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | ..           |                     |                     |
| Primary completion rate, total (% of relevant age group) | 94           | 97                  | 88                  |
| Ratio of girls to boys in primary & secondary school (%) | 101          | 103                 | 93                  |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 1.9          | 4.3                  | 1.6                  |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | ..           | 827.1                | 523.9                |
| CO₂ emissions, total (MtCO₂) | 0.1          | 8,259                | 3,744                |
| GHG net emissions/removals by LUCF (MtCO₂e) | ..           |                     |                     |
| Methane (CH₄) emissions, total (MtCO₂e) | ..           | 1,928                | 1,705                |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | ..           | 707                  | 687                  |
| Other GHG emissions, total (MtCO₂e) | ..           |                     | 17                   |
| Energy use per capita (kilograms of oil equivalent) | 610          | 1,436                | 680                  |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | ..           | 259.5                | 217.9                |

### National-Level Actions

| Latest UNFCCC national communication | 11/24/2000 (1st) |                      |
| Annex I emissions reduction target | .. | n/a                  |
| NAMA submission | Yes, with Goal | n/a                  |
| NAPA submission | n/a | n/a                  |
| Renewable energy target | .. | n/a                  |

### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | .. | n/a                  |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | n/a                  |
| Hosted Joint Implementation (JI) projects | .. | n/a                  |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | .. | n/a                  |
### Exposure to Impacts

| Country data                | Sub-Saharan Africa | Lower middle income |
|-----------------------------|--------------------|---------------------|
| Land area below 5m (% of land area) | 1.0                | 0.4                 | 1.7 |
| Population below 5m (% of total) | 20.4               | 2.0                 | 6.5 |
| Population in urban agglomerations > 1 million (%) | ..                | 14                  | 14  |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.0                | 4.0                 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 3.1                |                     |     |
| Annual freshwater withdrawals (% of internal resources) | 399.8              | 3.2                 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | ..                 | ..                  |     |
| Population living below $1.25 a day (% of total) | 21.2               | 50.9                | ..  |
| Nationally terrestrial protected areas (% of total land area) | 0.5                | 11.7                | 9.5 |
| Under-five mortality rate (per 1,000) | 111                | 121                 | 69  |
| Child malnutrition, underweight (% of under age five) | 16.7               | 24.6                | 31.7 |
| Malaria incidence rate (per 100,000 people) | 17,325             | 26,113              | 4,874 |

### Resilience

| Country data                | Sub-Saharan Africa | Lower middle income |
|-----------------------------|--------------------|---------------------|
| Access to improved sanitation (% of total pop.) | 26                 | 31                  | 45  |
| Access to improved water source (% of total pop.) | 49                | 60                  | 84  |
| Cereal yield (kg. per hectare) | 876               | 1,297               | 2,754 |
| Access to electricity (% of total population) | ..                | 32.5                | 67.3 |
| Paved roads (% of total roads) | 26.8              | 18.3                | 29.3 |
| Health workers (per 1,000 people) | 0.8               | 1.2                 | 2.6  |
| Foreign direct investment, net inflows (% of GDP) | 0.4               | 3.6                 | 2.4  |
| Invest. in infrastructure w/private participation ($ millions) | 133              | 11,957              | 81,789 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | ..                | ..                  |     |
| Ease of doing business (ranking 1–183; 1 = best) | 159               |                     |     |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 3.0               |                     |     |
| Primary completion rate, total (% of relevant age group) | 64                | 67                  | 88  |
| Ratio of girls to boys in primary & secondary school (%) | 103               | 89                  | 93  |

### GHG Emissions and Energy Use

| Country data                | Sub-Saharan Africa | Lower middle income |
|-----------------------------|--------------------|---------------------|
| CO₂ emissions per capita (metric tons) | 0.6               | 0.8                 | 1.6  |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 343.6             | 428.6               | 523.9 |
| CO₂ emissions, total (MtCO₂) | 2.0                | 685                 | 3,744 |
| GHG net emissions/removals by LUCF (2000, MtCO₂e) | -1.3              |                     |     |
| Methane (CH₄) emissions, total (MtCO₂e) | ..               | 590                 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | ..              | 334                 | 687  |
| Other GHG emissions, total (MtCO₂e) | ..               | ..                  | 17   |
| Energy use per capita (kilograms of oil equivalent) | ..               | 689                 | 680  |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | ..              | 308.4               | 217.9 |

### National-Level Actions

| Country data                | Sub-Saharan Africa | Lower middle income |
|-----------------------------|--------------------|---------------------|
| Latest UNFCCC national communication | 12/6/2008 (2nd)    |                     |     |
| Annex-I emissions reduction target | n/a               |                     |     |
| NAMA submission | Yes               |                     |     |
| NAPA submission | Yes               |                     |     |
| Renewable energy target | ..                |                     |     |

### Carbon Markets

| Country data                | Sub-Saharan Africa | Lower middle income |
|-----------------------------|--------------------|---------------------|
| Hosted Clean Development Mechanism (CDM) projects | ..                |                     |     |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | ..            |                     |     |
| Hosted Joint Implementation (JI) projects | n/a              |                     |     |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a            |                     |     |
### Population (millions)
- 1.3

### GDP ($ billions)
- 9.7

### Pop. growth (avg. ann. %, 1990-2010)
- 1.0

### GNI per capita (Atlas $)
- 7,750

### Climate

- **Average daily min/max temperature (1961-90, Celsius)**: 19 / 26
- **Projected annual temperature change (2045-65, Celsius)**: 1.3 to 1.7
- **Average annual precipitation (1961-90, mm)**: 2,041
- **Projected annual precipitation change (2045-65, mm)**: -165 to 67
- **Projected change in annual hot days/warm nights**: 8 / 14
- **Projected change in annual cool days/cold nights**: -3 / -3

### Exposure to Impacts

| Country data | Sub-Saharan Africa | Upper middle income |
|--------------|--------------------|---------------------|
| Land area below 5m (% of land area) | 7.1 | 0.4 | 1.8 |
| Population below 5m (% of total) | 5.6 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 14 | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.8 | 4.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 26.4 | 3.2 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 21.4 | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 4.5 | 11.7 | 13.6 |
| Under-five mortality rate (per 1,000) | 15 | 121 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | 24.6 | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | 26,113 | 80 |

### Resilience

- **Access to improved sanitation (% of total pop.)**: 91
- **Access to improved water source (% of total pop.)**: 99
- **Cereal yield (kg. per hectare)**: 8,307
- **Access to electricity (% of total population)**: 99.4
- **Paved roads (% of total roads)**: 98.0
- **Health workers (per 1,000 people)**: 4.8
- **Foreign direct investment, net inflows (% of GDP)**: 4.4
- **Invest. in infrastructure w/private participation ($ millions)**: 26
- **Disaster risk reduction progress score (1-5 scale; 5 = best)**: 3.5
- **Ease of doing business (ranking 1-183; 1 = best)**: 23
- **Public sector mgmt & institutions avg. (1-6 scale; 6 = best)**: ..
- **Primary completion rate, total (% of relevant age group)**: 89
- **Ratio of girls to boys in primary & secondary school (%)**: 101

### GHG Emissions and Energy Use

- **CO₂ emissions per capita (metric tons)**: 3.1
- **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)**: 269.6
- **CO₂ emissions, total (MtCO₂)**: 4.0
- **GHG net emissions/removals by LUCF (1995, MtCO₂e)**: -0.2
- **Methane (CH₄) emissions, total (MtCO₂e)**: ..
- **Nitrous oxide (N₂O) emissions, total (MtCO₂e)**: ..
- **Other GHG emissions, total (MtCO₂e)**: ..
- **Energy use per capita (kilograms of oil equivalent)**: 947
- **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)**: 85.9

### National-Level Actions

- **Latest UNFCCC national communication**: 5/28/1999 (1st)
- **Annex-I emissions reduction target**: n/a
- **NAMA submission**: Yes
- **NAPA submission**: n/a
- **Renewable energy target**: Yes

### Carbon Markets

- **Hosted Clean Development Mechanism (CDM) projects**: 0
- **Issued Certified Emission Reductions (CERs) from CDM (thousands)**: 0
- **Hosted Joint Implementation (JI) projects**: n/a
- **Issued Emission Reduction Units (ERUs) from JI (thousands)**: n/a
Mayotte

Population (thousands) 204.1  GDP ($ millions) ..
Pop. growth (avg. ann. %, 1990–2010) 4.0  GNI per capita (Atlas $) ..

Climate
Average daily min/max temperature (1961–90, Celsius) ..
Projected annual temperature change (2045–65, Celsius) 1.5 to 1.8
Average annual precipitation (1961–90, mm) ..
Projected annual precipitation change (2045–65, mm) -24 to 112
Projected change in annual hot days/warm nights 13 / 20
Projected change in annual cool days/cold nights -3 / -3

Exposure to Impacts

| Country data | Sub-Saharan Africa | Upper middle income |
|--------------|--------------------|---------------------|
| Land area below 5m (% of land area) | 21.6 | 0.4 | 1.8 |
| Population below 5m (% of total) | 21.6 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 14 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | .. | 4.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 3.2 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 2.2 | 11.7 | 13.6 |
| Under-five mortality rate (per 1,000) | .. | 121 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | 24.6 | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | 26,113 | 80 |

Resilience
Access to improved sanitation (% of total pop.) .. 31 68
Access to improved water source (% of total pop.) .. 60 92
Cereal yield (kg. per hectare) .. 1,297 3,690
Access to electricity (% of total population) .. 32.5 98.0
Paved roads (% of total roads) .. 18.3 50.5
Health workers (per 1,000 people) .. 1.2 4.5
Foreign direct investment, net inflows (% of GDP) .. 3.6 2.7
Invest. in infrastructure w/private participation ($ millions) .. 11,957 26,166
Disaster risk reduction progress score (1–5 scale; 5 = best) .. ..
Ease of doing business (ranking 1–183; 1 = best) .. ..
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) .. ..
Primary completion rate, total (% of relevant age group) .. 67 98
Ratio of girls to boys in primary & secondary school (%) .. 89 103

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) .. 0.8 5.3
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) .. 428.6 659.4
CO₂ emissions, total (MtCO₂) .. 685 12,860
GHG net emissions/removals by LUCF (MtCO₂e) .. ..
Methane (CH₄) emissions, total (MtCO₂e) .. 590 3,455
Nitrous oxide (N₂O) emissions, total (MtCO₂e) .. 334 1,144
Other GHG emissions, total (MtCO₂e) .. .. 243
Energy use per capita (kilograms of oil equivalent) .. 689 1,848
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) .. 308.4 227.1

National-Level Actions
Latest UNFCCC national communication n/a
Annex-I emissions reduction target n/a
NAMA submission n/a
NAPA submission n/a
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects n/a
Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Mexico

| Population (millions) | GDP ($ billions) | GNI per capita (Atlas $) |
|-----------------------|------------------|--------------------------|
| 113.4                 | 1,039.7          | 8,930                    |

#### Climate
- Average daily min/max temperature (1961-90, Celsius): 14 / 29
- Projected annual temperature change (2045-65, Celsius): 1.7 to 2.8
- Average annual precipitation (1961-90, mm): 752
- Projected annual precipitation change (2045-65, mm): -178 to 10
- Projected change in annual hot days/warm nights: 6 / 12
- Projected change in annual cool days/cold nights: -2 / -2

#### Exposure to Impacts

| Country | Latin America & the Carib. | Upper middle income |
|---------|-----------------------------|---------------------|
| Land area below 5m (% of land area) | 2.9 | 1.5 | 1.8 |
| Population below 5m (% of total) | 2.7 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 35 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.9 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.1 |
| Annual freshwater withdrawals (% of internal resources) | 19.3 | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 5.5 |
| Population living below $1.25 a day (% of total) | <2 | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 11.1 | 20.8 | 13.6 |
| Under-five mortality rate (per 1,000) | 17 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 3.4 | 3.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | 3 | 206 | 80 |

#### Resilience
- Access to improved sanitation (% of total pop.) | 85 | 79 | 68 |
- Access to improved water source (% of total pop.) | 94 | 93 | 92 |
- Cereal yield (kg. per hectare) | 3,434 | 3,337 | 3,690 |
- Access to electricity (% of total population) | .. | 93.4 | 98.0 |
- Paved roads (% of total roads) | 35.3 | 28.1 | 50.5 |
- Health workers (per 1,000 people) | 6.9 | 6.9 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | 1.8 | 2.3 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 6,360 | 33,064 | 26,166 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | 4.3 |
- Ease of doing business (ranking 1–183; 1 = best) | 53 |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. |
- Primary completion rate, total (% of relevant age group) | 104 | 102 | 98 |
- Ratio of girls to boys in primary & secondary school (%) | 102 | 102 | 103 |

#### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 4.3 | 2.8 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 332.6 | 285.6 | 659.4 |
- CO₂ emissions, total (MtCO₂) | 475.8 | 1,584 | 12,860 |
- GHG net emissions/removals by LUCF (2006, MtCO₂e) | 70.2 |
- Methane (CH₄) emissions, total (MtCO₂e) | 128.2 | 1,009 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 42.5 | 442 | 1,144 |
- Other GHG emissions, total (MtCO₂e) | 4.6 | 21 | 243 |
- Energy use per capita (kilograms of oil equivalent) | 1,497 | 1,245 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 119.8 | 130.6 | 227.1 |

#### National-Level Actions
- Latest UNFCCC national communication | 4/20/2010 (4th) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | Yes, with Goal |
- NAPA submission | n/a |
- Renewable energy target | .. |

#### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | 132 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 10,122 |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
## Micronesia, Fed. Sts.

| Population (thousands) | GDP ($ millions) | GNI per capita (Atlas $) |
|------------------------|------------------|---------------------------|
| 111.1                  | 287.4            | 2,700                     |

### Climate
- **Average daily min/max temperature (1961–90, Celsius)**: ..
- **Projected annual temperature change (2045–65, Celsius)**: 1.4 to 1.7
- **Average annual precipitation (1961–90, mm)**: ..
- **Projected annual precipitation change (2045–65, mm)**: –85 to 411
- **Projected change in annual hot days/warm nights**: 26 / 27
- **Projected change in annual cool days/cold nights**: –3 / –3

### Exposure to Impacts

| Country data | East Asia & Pacific | Lower middle income |
|--------------|---------------------|---------------------|
| Land area below 5m (% of land area) | 33.4 | 2.5 | 1.7 |
| Population below 5m (% of total) | 54.9 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | .. | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.1 | 3.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 1.3 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.8 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 31.2 | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 4.0 | 14.9 | 9.5 |
| Under-five mortality rate (per 1,000) | 42 | 24 | 69 |
| Child malnutrition, underweight (% of under age five) | .. | 9.0 | 31.7 |
| Malaria incidence rate (per 100,000 people) | .. | 525 | 4,874 |

### Resilience
- **Access to improved sanitation (% of total pop.)**: 27 / 59 / 45
- **Access to improved water source (% of total pop.)**: 94 / 88 / 84
- **Cereal yield (kg. per hectare)**: 1,450 / 4,860 / 2,754
- **Access to electricity (% of total population)**: .. / 90.8 / 67.3
- **Paved roads (% of total roads)**: 17.5 / 15.9 / 29.3
- **Health workers (per 1,000 people)**: 2.8 / 2.8 / 2.6
- **Foreign direct investment, net inflows (% of GDP)**: 3.5 / 3.0 / 2.4
- **Invest. in infrastructure w/private participation ($ millions)**: .. / 14,638 / 81,789
- **Disaster risk reduction progress score (1–5 scale; 5 = best)**: 140
- **Public sector mgmt & institutions avg. (1–6 scale; 6 = best)**: ..
- **Primary completion rate, total (% of relevant age group)**: .. / 97 / 88
- **Ratio of girls to boys in primary & secondary school (%)**: 102 / 103 / 93

### GHG Emissions and Energy Use
- **CO₂ emissions per capita (metric tons)**: 0.6 / 4.3 / 1.6
- **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)**: 196.8 / 827.1 / 523.9
- **CO₂ emissions, total (MtCO₂)**: 0.1 / 8,259 / 3,744
- **GHG net emissions/removals by LUCF (MtCO₂e)**: ..
- **Methane (CH₄) emissions, total (MtCO₂e)**: .. / 1,928 / 1,705
- **Nitrous oxide (N₂O) emissions, total (MtCO₂e)**: .. / 707 / 687
- **Other GHG emissions, total (MtCO₂e)**: .. / 17
- **Energy use per capita (kilograms of oil equivalent)**: .. / 1,436 / 680
- **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)**: 259.5 / 217.9

### National-Level Actions
- **Latest UNFCCC national communication**: 10/30/1999 (1st)
- **Annex-I emissions reduction target**: n/a
- **NAMA submission**: n/a
- **NAPA submission**: n/a
- **Renewable energy target**: ..

### Carbon Markets
- **Hosted Clean Development Mechanism (CDM) projects**: ..
- **Issued Certified Emission Reductions (CERs) from CDM (thousands)**: ..
- **Hosted Joint Implementation (JI) projects**: n/a
- **Issued Emission Reduction Units (ERUs) from JI (thousands)**: n/a
### Moldova

| Population (millions) | 3.6 | GDP ($ billions) | 5.8 |
|-----------------------|-----|-----------------|-----|
| Pop. growth (avg. ann. %, 1990-2010) | -0.2 | GNI per capita (Atlas $) | 1,810 |

#### Climate

- Average daily min/max temperature (1961-90, Celsius) | 5 / 14
- Projected annual temperature change (2045-65, Celsius) | 2.0 to 3.3
- Average annual precipitation (1961-90, mm) | 553
- Projected annual precipitation change (2045-65, mm) | -72 to 11
- Projected change in annual hot days/warm nights | 3 / 5
- Projected change in annual cool days/cold nights | -1 / -2

#### Exposure to Impacts

| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 1.3 | 2.5 | 1.7 |
| Population below 5m (% of total) | 0.9 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 18 | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | -0.8 | 0.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.3 | |
| Annual freshwater withdrawals (% of internal resources) | 191.5 | 6.5 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | 9.2 | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 1.4 | 7.5 | 9.5 |
| Under-five mortality rate (per 1,000) | 19 | 23 | 69 |
| Child malnutrition, underweight (% of under age five) | 3.2 | .. | 31.7 |
| Malaria incidence rate (per 100,000 people) | .. | .. | 4,874 |

#### Resilience

- Access to improved sanitation (% of total pop.) | 79 | 89 | 45 |
- Access to improved water source (% of total pop.) | 90 | 95 | 84 |
- Cereal yield (kg. per hectare) | 2,340 | 2,475 | 2,754 |
- Access to electricity (% of total population) | .. | .. | 67.3 |
- Paved roads (% of total roads) | 85.8 | 85.8 | 29.3 |
- Health workers (per 1,000 people) | 9.3 | 9.9 | 2.6 |
- Foreign direct investment, net inflows (% of GDP) | 3.3 | 2.8 | 2.4 |
- Invest. in infrastructure w/private participation ($ millions) | 35 | 22,652 | 81,789 |
- Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) | 81 | |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 3.4 | |
- Primary completion rate, total (% of relevant age group) | 93 | 95 | 88 |
- Ratio of girls to boys in primary & secondary school (%) | 101 | 97 | 93 |

#### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons) | 1.3 | 7.7 | 1.6 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 483.1 | 708.0 | 523.9 |
- CO₂ emissions, total (MtCO₂) | 4.8 | 3,110 | 3,744 |
- GHG net emissions/removals by LUCF (2005, MtCO₂e) | -1.4 | | |
- Methane (CH₄) emissions, total (MtCO₂e) | 3.4 | 937 | 1,705 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 0.8 | 214 | 687 |
- Other GHG emissions, total (MtCO₂e) | 0.0 | 76 | 17 |
- Energy use per capita (kilograms of oil equivalent) | 687 | 2,833 | 680 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 263.6 | 276.8 | 217.9 |

#### National-Level Actions

- Latest UNFCCC national communication | 1/27/2010 (2nd) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | Yes, with Goal |
- NAPA submission | n/a |
- Renewable energy target | Yes |

#### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects | 4 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
Monaco

Population (thousands) 35.4 GDP ($ billions) 6.1
Pop. growth (avg. ann. %, 1990–2010) 0.7 GNI per capita (Atlas $) 183,150

Climate
Average daily min/max temperature (1961–90, Celsius) 10 / 17
Projected annual temperature change (2045–65, Celsius) 1.8 to 2.7
Average annual precipitation (1961–90, mm) 894
Projected annual precipitation change (2045–65, mm) -114 to 1
Projected change in annual hot days/warm nights 4 / 7
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts
Land area below 5m (% of land area)
Population below 5m (% of total)
Population in urban agglomerations > 1 million (%)
Urban pop. growth (avg. annual %, 1990–2010)
Droughts, floods, extreme temps (% pop. avg., 1990–2009)
Annual freshwater withdrawals (% of internal resources)
Agricultural land under irrigation (% of total ag. land)
Population living below $1.25 a day (% of total)
Nationally terrestrial protected areas (% of total land area)
Under-five mortality rate (per 1,000)
Child malnutrition, underweight (% of under age five)
Malaria incidence rate (per 100,000 people)

Resilience
Access to improved sanitation (% of total pop.)
Access to improved water source (% of total pop.)
Cereal yield (kg. per hectare)
Access to electricity (% of total population)
Paved roads (% of total roads)
Health workers (per 1,000 people)
Foreign direct investment, net inflows (% of GDP)
Invest. in infrastructure w/private participation ($ millions)
Disaster risk reduction progress score (1–5 scale; 5 = best)
Ease of doing business (ranking 1–183; 1 = best)
Public sector mgmt & institutions avg. (1–6 scale; 6 = best)
Primary completion rate, total (% of relevant age group)
Ratio of girls to boys in primary & secondary school (%)

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons)
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)
CO₂ emissions, total (MtCO₂)
GHG net emissions/removals by LUCF (2009, MtCO₂e)
Methane (CH₄) emissions, total (MtCO₂e)
Nitrous oxide (N₂O) emissions, total (MtCO₂e)
Other GHG emissions, total (MtCO₂e)
Energy use per capita (kilograms of oil equivalent)
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)

National-Level Actions
Latest UNFCCC national communication 3/25/2011 (5th)
Annex-I emissions reduction target (base year: 1990) 30%
NAMA submission n/a
NAPA submission n/a
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects n/a
Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a
Hosted Joint Implementation (JI) projects ..
Issued Emission Reduction Units (ERUs) from JI (thousands) ..
## Mongolia

### Climate

- **Average daily min/max temperature (1961-90, Celsius)**: -8 / 6
- **Projected annual temperature change (2045–65, Celsius)**: 2.3 to 3.1
- **Average annual precipitation (1961-90, mm)**: 241
- **Projected annual precipitation change (2045–65, mm)**: 1 to 50
- **Projected change in annual hot days/warm nights**: 2 / 4
- **Projected change in annual cool days/cold nights**: -1 / -1

| Country | East Asia & Pacific | Lower middle income |
|---------|---------------------|---------------------|
| Mongolia | 2.5 | 1.7 |

### Exposure to Impacts

- **Land area below 5m (% of land area)**: 0.0
- **Population below 5m (% of total)**: 0.0
- **Population in urban agglomerations > 1 million (%)**: ..
- **Droughts, floods, extreme temps (% pop., avg., 1990-2009)**: 2.6
- **Annual freshwater withdrawals (% of internal resources)**: 1.4
- **Agricultural land under irrigation (% of total ag. land)**: 22.4
- **Urban pop. growth (avg. annual %, 1990–2010)**: 1.2
- **Population living below $1.25 a day (% of total)**: 13.4
- **Nationally terrestrial protected areas (% of total land area)**: 10.3
- **Under-five mortality rate (per 1,000)**: 34.9
- **Child malnutrition, underweight (% of under age five)**: 19.1
- **Malaria incidence rate (per 100,000 people)**: 43.6
- **Resilience**
  - Access to improved sanitation (% of total pop.): 50
  - Access to improved water source (% of total pop.): 76
  - Cereal yield (kg. per hectare): 1,552
  - Access to electricity (% of total population): 67.0
  - Paved roads (% of total roads): 3.5
  - Health workers (per 1,000 people): 6.3
  - Foreign direct investment, net inflows (% of GDP): 23.9
  - Invest. in infrastructure w/private participation ($ millions): 2
  - Disaster risk reduction progress score (1–5 scale; 5 = best): 2.8
  - Ease of doing business (ranking 1–183; 1 = best): 86
  - Public sector mgmt & institutions avg. (1–6 scale; 6 = best): 3.4
  - Primary completion rate, total (% of relevant age group): 93
  - Ratio of girls to boys in primary & secondary school (%): 103

### GHG Emissions and Energy Use

- **CO₂ emissions per capita (metric tons)**: 4.1
- **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)**: 4.3
- **CO₂ emissions, total (MtCO₂)**: 109,476
- **GHG net emissions/removals by LUCF (2006, MtCO₂e)**: -2.1
- **Methane (CH₄) emissions, total (MtCO₂e)**: 6.1
- **Nitrous oxide (N₂O) emissions, total (MtCO₂e)**: 3.5
- **Other GHG emissions, total (MtCO₂e)**: 0.0
- **Energy use per capita (kilograms of oil equivalent)**: 1,194
- **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)**: 345.1

### National-Level Actions

- **Latest UNFCCC national communication**: 12/10/2010 (2nd)
- **Annex-I emissions reduction target**: n/a
- **NAMA submission**: Yes
- **NAPA submission**: n/a
- **Renewable energy target**: Yes

### Carbon Markets

- **Hosted Clean Development Mechanism (CDM) projects**: 3
- **Issued Certified Emission Reductions (CERs) from CDM (thousands)**: 15
- **Hosted Joint Implementation (JI) projects**: n/a
- **Issued Emission Reduction Units (ERUs) from JI (thousands)**: n/a
Montenegro

Population (thousands) 631.5 GDP ($ billions) 4.0
Pop. growth (avg. ann. %, 1990–2010) 0.2 GNI per capita (Atlas $) 6,620

Climate
Average daily min/max temperature (1961–90, Celsius) ..
Projected annual temperature change (2045–65, Celsius) 1.9 to 2.9
Average annual precipitation (1961–90, mm) ..
Projected annual precipitation change (2045–65, mm) -138 to -27
Projected change in annual hot days/warm nights 3 / 6
Projected change in annual cool days/cold nights -2 / -1

Exposure to Impacts
| Country | Europe & Central Asia | Upper middle income |
|---------|-----------------------|---------------------|
| Land area below 5m (% of land area) | .. | 2.5 | 1.8 |
| Population below 5m (% of total) | .. | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 18 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.3 | 0.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 6.5 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 13.3 | 7.5 | 13.6 |
| Under-five mortality rate (per 1,000) | 8 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 2.2 | .. | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | .. | 80 |

Resilience
Access to improved sanitation (% of total pop.) 92 89 68
Access to improved water source (% of total pop.) 98 95 92
Cereal yield (kg. per hectare) 3,464 2,475 3,690
Access to electricity (% of total population) .. 98.0 ..
Paved roads (% of total roads) .. 85.8 50.5
Health workers (per 1,000 people) 7.5 9.9 4.5
Foreign direct investment, net inflows (% of GDP) 19.0 2.8 2.7
Invest. in infrastructure w/private participation ($ millions) 6 22,652 26,166
Disaster risk reduction progress score (1–5 scale; 5 = best) .. ..
Ease of doing business (ranking 1–183; 1 = best) 56 .. ..
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) .. 95 98
Ratio of girls to boys in primary & secondary school (%) 100 97 103

GHG Emissions and Energy Use
| | Country | Europe & Central Asia | Upper middle income |
| | | | |
| CO₂ emissions per capita (metric tons) | 3.1 | 7.7 | 5.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 293.7 | 708.0 | 659.4 |
| CO₂ emissions, total (MtCO₂) | 2.0 | 3,110 | 12,860 |
| GHG net emissions/removals by LUCF (2003, MtCO₂e) | -0.9 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 937 | 3,455 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 214 | 1,144 |
| Other GHG emissions, total (MtCO₂e) | .. | 76 | 243 |
| Energy use per capita (kilograms of oil equivalent) | 1,384 | 2,833 | 1,848 |
| Energy use per units of GDP (kg eq./$1,000 of 2005 PPP $) | 139.9 | 276.8 | 227.1 |

National-Level Actions
Latest UNFCCC national communication 10/12/2010 (1st)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission n/a
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects ..
Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
## Morocco

### Population (millions)
- 32.0

### GDP ($ billions)
- 91.2

### Pop. growth (avg. ann. %, 1990–2010)
- 1.3

### GNI per capita (Atlas $)
- 2,900

## Climate

### Average daily min/max temperature (1961–90, Celsius)
- Middle East & N. Africa 11 / 23
- Lower middle income 11 / 23

### Projected annual temperature change (2045–65, Celsius)
- Middle East & N. Africa 2.1 to 3.0
- Lower middle income 2.1 to 3.0

### Average annual precipitation (1961–90, mm)
- Middle East & N. Africa 346
- Lower middle income 346

### Projected annual precipitation change (2045–65, mm)
- Middle East & N. Africa –62 to –5
- Lower middle income –62 to –5

### Projected change in annual hot days/warm nights
- Middle East & N. Africa 4 / 8
- Lower middle income 4 / 8

### Projected change in annual cool days/cold nights
- Middle East & N. Africa –2 / –2
- Lower middle income –2 / –2

## Exposure to Impacts

| Country data   | Middle East & N. Africa | Lower middle income |
|----------------|-------------------------|---------------------|
| Population below 5m (% of land area) | 0.7 | 1.4 | 1.7 |
| Population below 5m (% of total) | 3.8 | 9.7 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 19 | 20 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.1 | 2.5 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.1 |     |     |
| Annual freshwater withdrawals (% of internal resources) | 43.4 | 121.9 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | 4.6 |     |     |
| Population living below $1.25 a day (% of total) | 2.5 | 3.6 |     |
| Nationally terrestrial protected areas (% of total land area) | 1.5 | 4.0 | 9.5 |
| Under-five mortality rate (per 1,000) | 36 | 34 | 69 |
| Child malnutrition, underweight (% of under age five) | 9.9 | 6.8 | 31.7 |
| Malaria incidence rate (per 100,000 people) |     |     | 4,874 |

## Resilience

| Country data   | Middle East & N. Africa | Lower middle income |
|----------------|-------------------------|---------------------|
| Access to improved sanitation (% of total pop.) | 69 | 84 | 45 |
| Access to improved water source (% of total pop.) | 81 | 87 | 84 |
| Cereal yield (kg. per hectare) | 1,911 | 2,512 | 2,754 |
| Access to electricity (% of total population) | 97.0 | 92.9 | 67.3 |
| Paved roads (% of total roads) | 67.8 | 74.3 | 29.3 |
| Health workers (per 1,000 people) | 1.5 | 3.6 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 1.4 | 2.9 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 1,124 | 5,854 | 81,789 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.0 |     |     |
| Ease of doing business (ranking 1–183; 1 = best) | 94 |     |     |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) |     |     |     |
| Primary completion rate, total (% of relevant age group) | 80 | 88 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 88 | 93 | 93 |

## GHG Emissions and Energy Use

### CO₂ emissions per capita (metric tons)
- Middle East & N. Africa 1.5
- Lower middle income 1.5

### CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)
- Middle East & N. Africa 379.0
- Lower middle income 379.0

### CO₂ emissions, total (MtCO₂)
- Middle East & N. Africa 47.9
- Lower middle income 47.9

### GHG net emissions/removals by LUCF (2000, MtCO₂e)
- Middle East & N. Africa 3.6
- Lower middle income 3.6

### Methane (CH₄) emissions, total (MtCO₂e)
- Middle East & N. Africa 10.6
- Lower middle income 10.6

### Nitrous oxide (N₂O) emissions, total (MtCO₂e)
- Middle East & N. Africa 5.8
- Lower middle income 5.8

### Other GHG emissions, total (MtCO₂e)
- Middle East & N. Africa 0.0
- Lower middle income 0.0

### Energy use per capita (kilograms of oil equivalent)
- Middle East & N. Africa 477
- Lower middle income 477

### Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)
- Middle East & N. Africa 113.7
- Lower middle income 113.7

## National-Level Actions

| Country data   | Middle East & N. Africa | Lower middle income |
|----------------|-------------------------|---------------------|
| Latest UNFCCC national communication | 11/3/2010 (2nd) |     |     |
| Annex-I emissions reduction target | n/a |     |     |
| NAMA submission | Yes |     |     |
| NAPA submission | n/a |     |     |
| Renewable energy target | Yes |     |     |

## Carbon Markets

| Country data   | Middle East & N. Africa | Lower middle income |
|----------------|-------------------------|---------------------|
| Hosted Clean Development Mechanism (CDM) projects | 6 |     |     |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 330 |     |     |
| Hosted Joint Implementation (JI) projects | n/a |     |     |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |     |     |

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## Mozambique

| Country data | Sub-Saharan Africa | Low income |
|--------------|-------------------|------------|
| Population (millions) | 23.4 | GDP ($ billions) | 9.6 |
| Pop. growth (avg. ann. %, 1990–2010) | 2.7 | GNI per capita (Atlas $) | 440 |

### Climate

- Average daily min/max temperature (1961–90, Celsius): 19 / 29
- Projected annual temperature change (2045–65, Celsius): 1.9 to 2.4
- Average annual precipitation (1961–90, mm): 1,031
- Projected annual precipitation change (2045–65, mm): -69 to 61
- Projected change in annual hot days/warm nights: 5 / 15
- Projected change in annual cool days/cold nights: -2 / -3

### Exposure to Impacts

| Land area below 5m (% of land area) | 1.8 | 0.4 | 0.7 |
| Population below 5m (% of total) | 6.5 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | 7 | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 5.7 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 3.7 |
| Annual freshwater withdrawals (% of internal resources) | 0.7 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 59.6 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 15.8 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 135 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 21.2 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 32,555 | 26,113 | 16,859 |

### Resilience

| Access to improved sanitation (% of total pop.) | 17 | 31 | 35 |
| Access to improved water source (% of total pop.) | 47 | 60 | 63 |
| Cereal yield (kg. per hectare) | 877 | 1,297 | 2,047 |
| Access to electricity (% of total population) | 11.7 | 32.5 | 23.0 |
| Paved roads (% of total roads) | 20.8 | 18.3 | 14.1 |
| Health workers (per 1,000 people) | 0.3 | 1.2 | 0.7 |
| Foreign direct investment, net inflows (% of GDP) | 8.2 | 3.6 | 3.2 |
| Invest. in infrastructure w/private participation ($ millions) | 80 | 11,957 | 4,471 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 4.0 |
| Ease of doing business (ranking 1–183; 1 = best) | 139 |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 3.4 |
| Primary completion rate, total (% of relevant age group) | 61 | 67 | 65 |
| Ratio of girls to boys in primary & secondary school (%) | 89 | 89 | 91 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.1 | 0.8 | 0.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 133.6 | 428.6 | 270.2 |
| CO₂ emissions, total (MtCO₂) | 2.3 | 685 | 219 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | 7.7 |
| Methane (CH₄) emissions, total (MtCO₂e) | 12.8 | 590 | 436 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 9.5 | 334 | 209 |
| Other GHG emissions, total (MtCO₂e) | 0.3 | .. | .. |
| Energy use per capita (kilograms of oil equivalent) | 427 | 689 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 529.7 | 308.4 | 303.9 |

### National-Level Actions

- Latest UNFCCC national communication: 6/2/2006 (1st)
- Annex-I emissions reduction target: n/a
- NAMA submission: ..
- NAPA submission: Yes
- Renewable energy target: ..

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: 0
- Issued Certified Emission Reductions (CERs) from CDM (thousands): 0
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
## Myanmar

| Population (millions) | 48.0 | GDP ($ millions) | .. |
|----------------------|------|-----------------|----|
| Pop. growth (avg. ann. %, 1990-2010) | 1.0 | GNI per capita (Atlas $) | .. |

## Climate

| Metric | Value |
|--------|-------|
| Average daily min/max temperature (1961-90, Celsius) | 18 / 8 |
| Projected annual temperature change (2045-65, Celsius) | 1.7 to 2.3 |
| Average annual precipitation (1961-90, mm) | 2,091 |
| Projected annual precipitation change (2045-65, mm) | -84 to 97 |
| Projected change in annual hot days/warm nights | 4 / 14 |
| Projected change in annual cool days/cold nights | -2 / -2 |

## Exposure to Impacts

| Metric                                      | East Asia & Pacific | Low income |
|---------------------------------------------|--------------------|------------|
| Land area below 5m (% of land area)        | 4.6                | 2.5        | 0.7        |
| Population below 5m (% of total)           | 14.0               | 10.3       | 5.1        |
| Population in urban agglomerations > 1 million (%) | ..                | ..         | ..         |
| Urban pop. growth (avg. annual %, 1990-2010) | 2.5                | 3.3        | 3.7        |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.1               | ..         | ..         |
| Annual freshwater withdrawals (% of internal resources) | 3.3               | 10.8       | 3.7        |
| Agricultural land under irrigation (% of total ag. land) | 24.8              | ..         | ..         |
| Population living below $1.25 a day (% of total) | ..                | 16.8       | ..         |
| Nationally terrestrial protected areas (% of total land area) | 6.3               | 14.9       | 10.6       |
| Under-five mortality rate (per 1,000)       | 66                 | 24         | 108        |
| Child malnutrition, underweight (% of under age five) | 29.6              | 9.0        | 28.3       |
| Malaria incidence rate (per 100,000 people) | 7,943              | 525        | 16,859     |

## Resilience

| Metric                                      | East Asia & Pacific | Low income |
|---------------------------------------------|--------------------|------------|
| Access to improved sanitation (% of total pop.) | 81                | 59         | 35         |
| Access to improved water source (% of total pop.) | 71                | 88         | 63         |
| Cereal yield (kg. per hectare)              | 3,949              | 4,860      | 2,047      |
| Access to electricity (% of total population) | 13.0              | 90.8       | 23.0       |
| Paved roads (% of total roads)              | 11.9               | 15.9       | 14.1       |
| Health workers (per 1,000 people)          | 1.3                | 2.8        | 0.7        |
| Foreign direct investment, net inflows (% of GDP) | ..                | 3.0        | 3.2        |
| Invest. in infrastructure w/private participation ($ millions) | 556               | 14,638     | 4,471      |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | ..               | ..         | ..         |
| Ease of doing business (ranking 1-183; 1 = best) | ..               | ..         | ..         |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | ..               | ..         | ..         |
| Primary completion rate, total (% of relevant age group) | 99                | 97         | 65         |
| Ratio of girls to boys in primary & secondary school (%) | 100               | 103        | 91         |

## GHG Emissions and Energy Use

| Metric                                      | East Asia & Pacific | Low income |
|---------------------------------------------|--------------------|------------|
| CO₂ emissions per capita (metric tons)      | 0.3                | 4.3        | 0.3        |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | ..                | 827.1      | 270.2      |
| CO₂ emissions, total (MtCO₂)               | 12.8               | 8,259      | 219        |
| GHG net emissions/removals by LUCF (MtCO₂e) | ..                | ..         | ..         |
| Methane (CH₄) emissions, total (MtCO₂e)     | 77.2               | 1,928      | 436        |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 30.9             | 707        | 209        |
| Other GHG emissions, total (MtCO₂e)        | 0.0                | ..         | ..         |
| Energy use per capita (kilograms of oil equivalent) | 316               | 1,436      | 365        |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | ..                | 259.5      | 303.9      |

## National-Level Actions

| Metric | Value |
|--------|-------|
| Latest UNFCCC national communication | .. |
| Annex-I emissions reduction target | n/a |
| NAMA submission | .. |
| NAPA submission | .. |
| Renewable energy target | .. |

## Carbon Markets

| Metric | Value |
|--------|-------|
| Hosted Clean Development Mechanism (CDM) projects | 0 |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 |
| Hosted Joint Implementation (II) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### Namibia

| Country data | Sub-Saharan Africa | Upper middle income |
|--------------|--------------------|---------------------|
| Population (millions) | 2.3 | GDP ($ billions) | 12.2 |
| Pop. growth (avg. ann. %, 1990–2010) | 2.4 | GNI per capita (Atlas $) | 4,500 |

### Climate
- Average daily min/max temperature (1961–90, Celsius): 13 / 27
- Projected annual temperature change (2045–65, Celsius): 2.2 to 2.9
- Average annual precipitation (1961–90, mm): 285
- Projected annual precipitation change (2045–65, mm): -67 to 23
- Projected change in annual hot days/warm nights: 6 / 13
- Projected change in annual cool days/cold nights: -2 / -2

### Exposure to Impacts

#### Land area below 5m (% of land area)
- Country data: 0.3
- Sub-Saharan Africa: 0.4
- Upper middle income: 1.8

#### Population below 5m (% of total)
- Country data: 2.9
- Sub-Saharan Africa: 2.0
- Upper middle income: 6.5

#### Population in urban agglomerations > 1 million (%)
- Country data: ..
- Sub-Saharan Africa: 14
- Upper middle income: 22

#### Urban pop. growth (avg. annual %, 1990–2010)
- Country data: 4.0
- Sub-Saharan Africa: 4.0
- Upper middle income: 2.3

#### Droughts, floods, extreme temps (% pop. avg., 1990–2009)
- Country data: 3.4

#### Annual freshwater withdrawals (% of internal resources)
- Country data: 4.9
- Sub-Saharan Africa: 3.2
- Upper middle income: 5.6

#### Agricultural land under irrigation (% of total ag. land)
- Country data: 4.9

#### Population living below $1.25 a day (% of total)
- Country data: 14.5
- Sub-Saharan Africa: 17.5
- Upper middle income: 24.6

#### Nationally terrestrial protected areas (% of total land area)
- Country data: 40
- Sub-Saharan Africa: 40
- Upper middle income: 121

#### Under-five mortality rate (per 1,000)
- Country data: 40
- Sub-Saharan Africa: 40
- Upper middle income: 121

#### Child malnutrition, underweight (% of under age five)
- Country data: 17.5
- Sub-Saharan Africa: 17.5
- Upper middle income: 24.6

#### Malaria incidence rate (per 100,000 people)
- Country data: 4,589
- Sub-Saharan Africa: 26,113
- Upper middle income: 80

### Resilience

#### Access to improved sanitation (% of total pop.)
- Country data: 33
- Sub-Saharan Africa: 31
- Upper middle income: 68

#### Access to improved water source (% of total pop.)
- Country data: 92
- Sub-Saharan Africa: 60
- Upper middle income: 92

#### Cereal yield (kg. per hectare)
- Country data: 365
- Sub-Saharan Africa: 1,297
- Upper middle income: 3,690

#### Access to electricity (% of total population)
- Country data: 34.0
- Sub-Saharan Africa: 32.5
- Upper middle income: 98.0

#### Pavement (% of total roads)
- Country data: 12.8
- Sub-Saharan Africa: 18.3
- Upper middle income: 50.5

#### Health workers (per 1,000 people)
- Country data: 3.2
- Sub-Saharan Africa: 1.2
- Upper middle income: 4.5

#### Foreign direct investment, net inflows (% of GDP)
- Country data: 7.0
- Sub-Saharan Africa: 3.6
- Upper middle income: 2.7

#### Invest. in infrastructure w/private participation ($ millions)
- Country data: 11,957
- Sub-Saharan Africa: 26,166

#### Disaster risk reduction progress score (1–5 scale; 5 = best)
- Country data: ..

#### Ease of doing business (ranking 1–183; 1 = best)
- Country data: 78

#### Public sector mgmt & institutions avg. (1–6 scale; 6 = best)
- Country data: ..

#### Primary completion rate, total (% of relevant age group)
- Country data: 87
- Sub-Saharan Africa: 67
- Upper middle income: 98

#### Ratio of girls to boys in primary & secondary school (%)
- Country data: 104
- Sub-Saharan Africa: 89
- Upper middle income: 103

### GHG Emissions and Energy Use

#### CO₂ emissions per capita (metric tons)
- Country data: 1.8
- Sub-Saharan Africa: 0.8
- Upper middle income: 5.3

#### CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)
- Country data: 311.4
- Sub-Saharan Africa: 428.6
- Upper middle income: 659.4

#### CO₂ emissions, total (MtCO₂)
- Country data: 4.0
- Sub-Saharan Africa: 685
- Upper middle income: 12,860

#### GHG net emissions/removals by LUCF (1994, MtCO₂e)
- Country data: -5.7

#### Methane (CH₄) emissions, total (MtCO₂e)
- Country data: 5.1
- Sub-Saharan Africa: 590
- Upper middle income: 3,455

#### Nitrous oxide (N₂O) emissions, total (MtCO₂e)
- Country data: 3.8
- Sub-Saharan Africa: 334
- Upper middle income: 1,144

#### Other GHG emissions, total (MtCO₂e)
- Country data: 0.0

#### Energy use per capita (kilograms of oil equivalent)
- Country data: 764
- Sub-Saharan Africa: 689
- Upper middle income: 1,848

#### Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)
- Country data: 135.4
- Sub-Saharan Africa: 308.4
- Upper middle income: 227.1

### National-Level Actions

#### Latest UNFCCC national communication
- Country data: 10/7/2002 (1st)

#### Annex-I emissions reduction target
- Country data: n/a

#### NAMA submission
- Country data: ..

#### NAPA submission
- Country data: n/a

#### Renewable energy target
- Country data: ..

### Carbon Markets

#### Hosted Clean Development Mechanism (CDM) projects
- Country data: ..

#### Issued Certified Emission Reductions (CERs) from CDM (thousands)
- Country data: ..

#### Hosted Joint Implementation (JI) projects
- Country data: n/a

#### Issued Emission Reduction Units (ERUs) from JI (thousands)
- Country data: n/a
### Exposure to Impacts

| Country data | East Asia & Pacific | Upper middle income |
|--------------|---------------------|---------------------|
| Population below 5m (% of total) | 40.4 | 2.5 | 1.8 |
| Population below 5m (% of land area) | 40.4 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | .. | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | .. | 3.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.8 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | .. | 14.9 | 13.6 |
| Under-five mortality rate (per 1,000) | 40 | 24 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | 9.0 | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | 525 | 80 |

### Resilience

| Data | East Asia & Pacific | Upper middle income |
|------|---------------------|---------------------|
| Access to improved sanitation (% of total pop.) | 50 | 59 | 68 |
| Access to improved water source (% of total pop.) | 90 | 88 | 92 |
| Cereal yield (kg. per hectare) | .. | 4,860 | 3,690 |
| Access to electricity (% of total population) | .. | 90.8 | 98.0 |
| Paved roads (% of total roads) | .. | 15.9 | 50.5 |
| Health workers (per 1,000 people) | .. | 5.6 | 2.8 |
| Foreign direct investment, net inflows (% of GDP) | .. | 3.0 | 2.7 |
| Invest. in infrastructure w/private participation ($ millions) | .. | 14,638 | 26,166 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1-183; 1 = best) | .. | .. | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. | .. |
| Primary completion rate, total (% of relevant age group) | 97 | 97 | 98 |
| Ratio of girls to boys in primary & secondary school (%) | 112 | 103 | 103 |

### GHG Emissions and Energy Use

| Data | East Asia & Pacific | Upper middle income |
|------|---------------------|---------------------|
| CO₂ emissions per capita (metric tons) | 13.9 | 4.3 | 5.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 827.1 | 659.4 |
| CO₂ emissions, total (MtCO₂) | 0.1 | 8,259 | 12,860 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | .. | -0.0 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,928 | 3,455 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 707 | 1,144 |
| Other GHG emissions, total (MtCO₂e) | .. | .. | 243 |
| Energy use per capita (kilograms of oil equivalent) | .. | 1,436 | 1,848 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 259.5 | 227.1 |

### National-Level Actions

| Data | East Asia & Pacific | Upper middle income |
|------|---------------------|---------------------|
| Latest UNFCCC national communication | 10/30/1999 (1st) | .. | .. |
| Annex-I emissions reduction target | .. | .. | .. |
| NAMA submission | .. | .. | .. |
| NAPA submission | .. | .. | .. |
| Renewable energy target | .. | .. | .. |

### Carbon Markets

| Data | East Asia & Pacific | Upper middle income |
|------|---------------------|---------------------|
| Hosted Clean Development Mechanism (CDM) projects | .. | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | .. | .. |
| Hosted Joint Implementation (JI) projects | .. | .. | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | .. | .. | .. |
### Nepal

| Country data | South Asia | Low income |
|--------------|------------|------------|
| Population (millions) | 30.0 | GDP ($ billions) | 15.7 |
| Pop. growth (avg. ann. %, 1990-2010) | 2.3 | GNI per capita (Atlas $) | 480 |

#### Climate

- Average daily min/max temperature (1961-90, Celsius) 2 / 15
- Projected annual temperature change (2045-65, Celsius) 2.2 to 3.4
- Average annual precipitation (1961-90, mm) 1,321
- Projected annual precipitation change (2045-65, mm) -116 to 231
- Projected change in annual hot days/warm nights 3 / 8
- Projected change in annual cool days/cold nights -2 / -2

#### Exposure to Impacts

|                       | Country data | South Asia | Low income |
|-----------------------|--------------|------------|------------|
| Land area below 5m (% of land area) | 0.0 | 1.5 | 0.7 |
| Population below 5m (% of total) | 0.0 | 4.4 | 5.1 |
| Population in urban agglomerations > 1 million (%) | .. | 13 | 11 |
| Urban pop. growth (avg. annual %, 1990-2010) | 5.8 | 2.7 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.7 | 50.6 | 3.7 |
| Annual freshwater withdrawals (% of internal resources) | 5.1 | .. | .. |
| Agricultural land under irrigation (% of total ag. land) | 27.7 | 40.3 | 108 |
| Population living below $1.25 a day (% of total) | 55.1 | 42.5 | 28.3 |
| Nationally terrestrial protected areas (% of total land area) | 17.0 | 6.1 | 10.6 |
| Under-five mortality rate (per 1,000) | 50 | 67 | 108 |
| Child malnutrition, underweight (% of under age five) | 38.8 | 42.5 | 28.3 |
| Malara incidence rate (per 100,000 people) | 103 | 1,127 | 16,859 |

#### Resilience

| Access to improved sanitation (% of total pop.) | 31 | 36 | 35 |
| Access to improved water source (% of total pop.) | 88 | 87 | 63 |
| Cereal yield (kg. per hectare) | 2,374 | 2,728 | 2,047 |
| Access to electricity (% of total population) | 43.6 | 62.1 | 23.0 |
| Paved roads (% of total roads) | 55.9 | 58.9 | 14.1 |
| Health workers (per 1,000 people) | 0.7 | 1.7 | 0.7 |
| Foreign direct investment, net inflows (% of GDP) | 0.6 | 1.3 | 3.2 |
| Invest. in infrastructure w/private participation ($ millions) | 34 | 73,548 | 4,471 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 2.8 | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 107 |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 2.8 | .. | .. |
| Primary completion rate, total (% of relevant age group) | 70 | 86 | 65 |
| Ratio of girls to boys in primary & secondary school (%) | 82 | 92 | 91 |

#### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.1 | 1.3 | 0.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 120.0 | 504.6 | 270.2 |
| CO₂ emissions, total (MtCO₂) | 3.5 | 1,970 | 219 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | 8.1 |
| Methane (CH₄) emissions, total (MtCO₂e) | 22.1 | 846 | 436 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 4.5 | 268 | 209 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | 9 | .. |
| Energy use per capita (kilograms of oil equivalent) | 338 | 532 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 323.2 | 193.5 | 303.9 |

#### National-Level Actions

- Latest UNFCCC national communication 9/1/2004 (1st)
- Annex-I emissions reduction target n/a
- NAMA submission n/a
- NAPA submission Yes
- Renewable energy target n/a

#### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects 4
- Issued Certified Emission Reductions (CERs) from CDM (thousands) 92
- Hosted Joint Implementation (JI) projects n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
## Netherlands

Population (millions) | 16.6 | GDP ($ billions) | 783.4 | GNI per capita (Atlas $) | 49,750
---|---|---|---|---|---
Pop. growth (avg. ann. %, 1990–2010) | 0.5 |

### Climate

- Average daily min/max temperature (1961–90, Celsius): 6 / 13
- Projected annual temperature change (2045–65, Celsius): 1.4 to 2.3
- Average annual precipitation (1961–90, mm): 778
- Projected annual precipitation change (2045–65, mm): -18 to 50
- Projected change in annual hot days/warm nights: 3 / 5
- Projected change in annual cool days/cold nights: -2 / -2

### Exposure to Impacts

| Country data | High income |
|---|---|
| Land area below 5m (% of land area) | 58.5 | 2.2 |
| Population below 5m (% of total) | 61.3 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 12 | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.5 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 105.1 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 10.6 | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 12.4 | 13.4 |
| Under-five mortality rate (per 1,000) | 4 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

### Resilience

- Access to improved sanitation (% of total pop.): 100
- Access to improved water source (% of total pop.): 100
- Cereal yield (kg, per hectare): 9,032
- Access to electricity (% of total population): 100
- Paved roads (% of total roads): 87.3
- Health workers (per 1,000 people): 10.7
- Foreign direct investment, net inflows (% of GDP): -2.3
- Invest. in infrastructure w/private participation ($ millions): ..
- Disaster risk reduction progress score (1–5 scale; 5 = best): 31
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best): 100
- Primary completion rate, total (% of relevant age group): 97
- Ratio of girls to boys in primary & secondary school (%): 99

### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons): 10.6
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $): 277.0
- CO₂ emissions, total (MtCO₂): 173.7
- GHG net emissions/removals by LUCF (2009, MtCO₂e): 2.5
- Methane (CH₄) emissions, total (MtCO₂e): 21.3
- Nitrous oxide (N₂O) emissions, total (MtCO₂e): 14.6
- Other GHG emissions, total (MtCO₂e): 3.8
- Energy use per capita (kilograms of oil equivalent): 5,016
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $): 135.9

### National-Level Actions

- Latest UNFCCC national communication: 12/19/2009 (5th)
- Annex-I emissions reduction target (base year: 1990): 20% / 30% (EU)
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: Yes

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: ..
- Issued Emission Reduction Units (ERUs) from JI (thousands): ..

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### New Caledonia

| Population (thousands) | 254.0 | GDP ($ millions) | .. |
| Pop. growth (avg. ann. %, 1990–2010) | 2.1 | GNI per capita (Atlas $) | .. |

#### Climate

| Average daily min/max temperature (1961–90, Celsius) | 19 / 25 |
| Projected annual temperature change (2045–65, Celsius) | 1.4 to 1.7 |
| Average annual precipitation (1961–90, mm) | 1,498 |
| Projected annual precipitation change (2045–65, mm) | -122 to 118 |
| Projected change in annual hot days/warm nights | 7 / 12 |
| Projected change in annual cool days/cold nights | -3 / -3 |

#### Exposure to Impacts

| Land area below 5m (% of land area) | 8.0 | 2.2 |
| Population below 5m (% of total) | 34.3 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.5 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 5.5 | 13.4 |
| Under-five mortality rate (per 1,000) | .. | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

#### Resilience

| Access to improved sanitation (% of total pop.) | .. | 100 |
| Access to improved water source (% of total pop.) | .. | 100 |
| Cereal yield (kg. per hectare) | 3,391 | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | .. | 87.3 |
| Health workers (per 1,000 people) | .. | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | .. | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | .. | 97 |
| Ratio of girls to boys in primary & secondary school (%) | .. | 100 |

#### GHG Emissions and Energy Use

| CO2 emissions per capita (metric tons) | 12.8 | 11.9 |
| CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 354.4 |
| CO2 emissions, total (MtCO2) | 3.1 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO2e) | .. | 1,539 |
| Methane (CH4) emissions, total (MtCO2e) | .. | 813 |
| Nitrous oxide (N2O) emissions, total (MtCO2e) | .. | 460 |
| Other GHG emissions, total (MtCO2e) | .. | 4,944 |
| Energy use per capita (kilograms of oil equivalent) | .. | 147.0 |

#### National-Level Actions

| Latest UNFCCC national communication | n/a |
| Annex-I emissions reduction target | n/a |
| NAMA submission | n/a |
| NAPA submission | n/a |
| Renewable energy target | .. |

#### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
| Hosted Joint Implementation (JI) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### New Zealand

| Data Point | 2011 Value | 2010 Value |
|------------|------------|------------|
| Population (millions) | 4.4 | 4.4 |
| GDP ($ billions) | 126.7 | 125.3 |
| Pop. growth (avg. ann. %, 1990-2010) | 1.2 | 1.2 |
| GNI per capita (Atlas $) | 29,050 | 28,872 |

#### Climate
- **Average daily min/max temperature (1961-90, Celsius)**: 6.0 / 15.8
- **Projected annual temperature change (2045-65, Celsius)**: 1.1 to 1.7
- **Average annual precipitation (1961-90, mm)**: 1,732
- **Projected annual precipitation change (2045-65, mm)**: -44 to 53
- **Projected change in annual hot days/warm nights**: 4 / 8
- **Projected change in annual cool days/cold nights**: -2 / -2

#### Exposure to Impacts

| Indicator | High Income | Country Data |
|-----------|-------------|--------------|
| Land area below 5m (% of land area) | 2.7 | 2.2 |
| Population below 5m (% of total) | 12.6 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 32 | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 1.3 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 0.6 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 3.2 | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 25.8 | 13.4 |
| Under-five mortality rate (per 1,000) | 6 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

#### Resilience

| Indicator | High Income | Country Data |
|-----------|-------------|--------------|
| Access to improved sanitation (% of total pop.) | .. | 100 |
| Access to improved water source (% of total pop.) | 100 | 100 |
| Cereal yield (kg, per hectare) | 6,924 | 5,445 |
| Access to electricity (% of total population) | 100 | 100 |
| Paved roads (% of total roads) | 65.9 | 87.3 |
| Health workers (per 1,000 people) | 13.3 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | -1.0 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 3.8 | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 3 | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 102 | 100 |

#### GHG Emissions and Energy Use

| Indicator | 2011 Value | 2010 Value |
|-----------|------------|------------|
| CO₂ emissions per capita (metric tons) | 7.8 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 304.1 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 33.1 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -26.7 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 27.6 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 12.9 | 813 |
| Other GHG emissions, total (MtCO₂e) | 1.0 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 4,193 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 162.9 | 147.0 |

#### National-Level Actions

| Action | Year | Target |
|--------|------|--------|
| Latest UNFCCC national communication | 12/23/2009 | (5th) |
| Annex-I emissions reduction target (base year: 1990) | 10% | 20% |
| NAMA submission | n/a | |
| NAPA submission | n/a | |
| Renewable energy target | Yes | |

#### Carbon Markets

| Program | 2011 Value |
|---------|------------|
| Hosted Clean Development Mechanism (CDM) projects | n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
| Hosted Joint Implementation (JI) projects | 7 |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | 1,898 |
## Nicaragua

### Climate

| Country data | Latin America & the Carib. | Lower middle income |
|--------------|----------------------------|---------------------|
| Population (millions) | 5.8 | GDP ($ billions) | 6.6 |
| Pop. growth (avg. ann. %, 1990-2010) | 1.7 | GNI per capita (Atlas $) | 1,090 |

### Exposure to Impacts

| Land area below 5m (% of land area) | 3.6 | 1.5 | 1.7 |
| Population below 5m (% of total) | 1.5 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 23 | 35 | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 2.2 | 2.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.8 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 0.7 | 2.0 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 15.8 | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 36.7 | 20.8 | 9.5 |
| Under-five mortality rate (per 1,000) | 27 | 23 | 69 |
| Child malnutrition, underweight (% of under age five) | 4.3 | 3.8 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 26 | 206 | 4,874 |

### Resilience

| Access to improved sanitation (% of total pop.) | 52 | 79 | 45 |
| Access to improved water source (% of total pop.) | 85 | 93 | 84 |
| Cereal yield (kg. per hectare) | 2,077 | 3,337 | 2,754 |
| Access to electricity (% of total population) | 72.1 | 93.4 | 67.3 |
| Paved roads (% of total roads) | 12.0 | 28.1 | 29.3 |
| Health workers (per 1,000 people) | 1.4 | 6.9 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 7.8 | 2.3 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 547 | 33,064 | 81,789 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 3.8 | .. | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 118 | .. | .. |
| Public sector mgt & institutions avg. (1-6 scale; 6 = best) | 3.2 | .. | .. |
| Primary completion rate, total (% of relevant age group) | 75 | 102 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 102 | 102 | 93 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.8 | 2.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 308.2 | 285.6 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 4.3 | 1,584 | 3,744 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | -13.1 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 6.0 | 1,009 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 3.3 | 442 | 687 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | 21 | 17 |
| Energy use per capita (kilograms of oil equivalent) | 540 | 1,245 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 222.8 | 130.6 | 217.9 |

### National-Level Actions

| Latest UNFCCC national communication | 6/22/2011 (2nd) | Annex-I emissions reduction target | n/a |
| NAMA submission | .. | NAPA submission | .. |
| Renewable energy target | Yes | |

### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | 5 | Issued Certified Emission Reductions (CERs) from CDM (thousands) | 602 |
| Hosted Joint Implementation (JI) projects | n/a | Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
Country data

Sub-Saharan Africa

Low income

Population (millions) 15.5 GDP ($ billions) 5.5
Pop. growth (avg. ann. %, 1990–2010) 3.4 GNI per capita (Atlas $) 370

Climate
Average daily min/max temperature (1961–90, Celsius) 19 / 35
Projected annual temperature change (2045–65, Celsius) 2.4 to 2.8
Average annual precipitation (1961–90, mm) 151
Projected annual precipitation change (2045–65, mm) –71 to 36
Projected change in annual hot days/warm nights 5 / 12
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts
Land area below 5m (% of land area) 0.0 0.4 0.7
Population below 5m (% of total) 0.0 2.0 5.1
Population in urban agglomerations > 1 million (%) 7 14 11
Urban pop. growth (avg. annual %, 1990–2010) 3.9 4.0 3.7
Droughts, floods, extreme temps (% pop. avg., 1990–2009) 7.5
Annual freshwater withdrawals (% of internal resources) 67.5 3.2 3.7
Agricultural land under irrigation (% of total ag. land) .. .. ..
Population living below $1.25 a day (% of total) 43.1 50.9 ..
Nationally terrestrial protected areas (% of total land area) 6.8 11.7 10.6
Under-five mortality rate (per 1,000) 143 121 108
Child malnutrition, underweight (% of under age five) 39.9 24.6 28.3
Malaria incidence rate (per 100,000 people) 37,958 26,113 16,859

Resilience
Access to improved sanitation (% of total pop.) 9 31 35
Access to improved water source (% of total pop.) 48 60 63
Cereal yield (kg., per hectare) 380 1,297 2,047
Access to electricity (% of total population) .. 32.5 23.0
Paved roads (% of total roads) 20.7 18.3 14.1
Health workers (per 1,000 people) 0.2 1.2 0.7
Foreign direct investment, net inflows (% of GDP) 17.1 3.6 3.2
Invest. in infrastructure w/private participation ($ millions) 107 11,957 4,471
Disaster risk reduction progress score (1–5 scale; 5 = best) .. .. ..
Ease of doing business (ranking 1–183; 1 = best) 173
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) 3.2
Primary completion rate, total (% of relevant age group) 41 67 65
Ratio of girls to boys in primary & secondary school (%) 78 89 91

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 0.1 0.8 0.3
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 90.3 428.6 270.2
CO₂ emissions, total (MtCO₂) 0.9 685 219
GHG net emissions/removals by LUCF (2000, MtCO₂e) −16.8
Methane (CH₄) emissions, total (MtCO₂e) .. 590 436
Nitrous oxide (N₂O) emissions, total (MtCO₂e) .. 334 209
Other GHG emissions, total (MtCO₂e) .. .. ..
Energy use per capita (kilograms of oil equivalent) .. 689 365
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) .. 308.4 303.9

National-Level Actions
Latest UNFCCC national communication 12/9/2009 (2nd)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission Yes
Renewable energy target Yes

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects ..
Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
Nigeria

| Population (millions) | GDP ($ billions) | GNI per capita (Atlas $) |
|----------------------|-----------------|--------------------------|
| 158.4                | 193.7           | 1,180                    |

**Climate**

- Average daily min/max temperature (1961–90, Celsius) 21 / 33
- Projected annual temperature change (2045–65, Celsius) 2.0 to 2.5
- Average annual precipitation (1961–90, mm) 1,150
- Projected annual precipitation change (2045–65, mm) -128 to 89
- Projected change in annual hot days/warm nights 6 / 19
- Projected change in annual cool days/cold nights -2 / -2

**Exposure to Impacts**

| Country data       | Sub-Saharan Africa | Lower middle income |
|--------------------|--------------------|---------------------|
| Land area below 5m (% of land area) | 0.5 | 0.4 | 1.7 |
| Population below 5m (% of total) | 3.0 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 15 | 14 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.1 | 4.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.1 | 0.1 | 0.1 |
| Annual freshwater withdrawals (% of internal resources) | 4.7 | 3.2 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 64.4 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 12.8 | 11.7 | 9.5 |
| Under-five mortality rate (per 1,000) | 143 | 121 | 69 |
| Child malnutrition, underweight (% of under age five) | 26.7 | 24.6 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 38,259 | 26,113 | 4,874 |

**Resilience**

| Access to improved sanitation (% of total pop.) | 32 | 31 | 45 |
| Access to improved water source (% of total pop.) | 58 | 60 | 84 |
| Cereal yield (kg. per hectare) | 1,528 | 1,297 | 2,754 |
| Access to electricity (% of total population) | 50.6 | 32.5 | 67.3 |
| Paved roads (% of total roads) | 15.0 | 18.3 | 29.3 |
| Health workers (per 1,000 people) | 2.0 | 1.2 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 3.1 | 3.6 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 3,036 | 11,957 | 81,789 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 4.0 | 4.0 | 4.0 |
| Ease of doing business (ranking 1–183; 1 = best) | 133 | 133 | 133 |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 2.9 | 2.9 | 2.9 |
| Primary completion rate, total (% of relevant age group) | 79 | 67 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 85 | 89 | 93 |

**GHG Emissions and Energy Use**

| CO₂ emissions per capita (metric tons) | 0.6 | 0.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 326.6 | 428.6 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 95.8 | 685 | 3,744 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | 105.0 | 105.0 | 105.0 |
| Methane (CH₄) emissions, total (MtCO₂e) | 130.3 | 590 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 21.6 | 334 | 687 |
| Other GHG emissions, total (MtCO₂e) | 0.7 | .. | 17 |
| Energy use per capita (kilograms of oil equivalent) | 701 | 689 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 345.1 | 308.4 | 217.9 |

**National-Level Actions**

| Latest UNFCCC national communication | 11/17/2003 (1st) | n/a |
| Annex-I emissions reduction target | n/a | n/a |
| NAMA submission | .. | .. |
| NAPA submission | n/a | n/a |
| Renewable energy target | Yes | Yes |

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects | 5 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 312 |
- Hosted Joint Implementation (JI) projects | n/a | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | n/a |
### Climate
- Average daily min/max temperature (1961-90, Celsius): 22 / 27
- Projected annual temperature change (2045-65, Celsius): 1.3 to 1.7
- Average annual precipitation (1961-90, mm): 2,210
- Projected annual precipitation change (2045-65, mm): -9 to 153
- Projected change in annual hot days/warm nights: 9 / 15
- Projected change in annual cool days/cold nights: -3 / -3

### Exposure to Impacts

| Country data | East Asia & Pacific | Upper middle income |
|--------------|---------------------|---------------------|
| Land area below 5m (% of land area) | 10.4 | 2.5 | 1.8 |
| Population below 5m (% of total) | 10.4 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | .. | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | .. | 3.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.8 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 22.2 | 14.9 | 13.6 |
| Under-five mortality rate (per 1,000) | 22 | 24 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | 9.0 | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | 525 | 80 |

### Resilience
- Access to improved sanitation (% of total pop.) | 100 | 59 | 68 |
- Access to improved water source (% of total pop.) | 100 | 88 | 92 |
- Cereal yield (kg, per hectare) | .. | 4,860 | 3,690 |
- Access to electricity (% of total population) | .. | 90.8 | 98.0 |
- Paved roads (% of total roads) | .. | 15.9 | 50.5 |
- Health workers (per 1,000 people) | 19.0 | 2.8 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | .. | 3.0 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | .. | 14,638 | 26,166 |
- Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) | .. | .. | .. |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. | .. |
- Primary completion rate, total (% of relevant age group) | 126 | 97 | 98 |
- Ratio of girls to boys in primary & secondary school (%) | 129 | 103 | 103 |

### GHG Emissions and Energy Use
- CO2 emissions per capita (metric tons) | 2.5 | 4.3 | 5.3 |
- CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 827.1 | 659.4 |
- CO2 emissions, total (MtCO2) | 0.0 | 8,259 | 12,860 |
- GHG net emissions/removals by LUCF (1994, MtCO2e) | 0.1 | .. | .. |
- Methane (CH4) emissions, total (MtCO2e) | .. | 1,928 | 3,455 |
- Nitrous oxide (N2O) emissions, total (MtCO2e) | .. | 707 | 1,144 |
- Other GHG emissions, total (MtCO2e) | .. | .. | 243 |
- Energy use per capita (kilograms of oil equivalent) | .. | 1,436 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 259.5 | 227.1 |

### National-Level Actions
- Latest UNFCCC national communication | 10/2/2001 (1st) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | .. |
- NAPA submission | n/a |
- Renewable energy target | .. |

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | .. |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### Northern Mariana Islands

| Population (thousands) | GDP ($ millions) | GNI per capita (Atlas $) |
|------------------------|------------------|--------------------------|
| 60.9                   | ..               | ..                       |

**Climate**

- Average daily min/max temperature (1961–90, Celsius): 24 / 30
- Projected annual temperature change (2045–65, Celsius): 1.4 to 1.8
- Average annual precipitation (1961–90, mm): 7,369
- Projected annual precipitation change (2045–65, mm): 1 to 197
- Projected change in annual hot days/warm nights: 17 / 26
- Projected change in annual cool days/cold nights: -3 / -3

### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 28.1 | 2.2 |
| Population below 5m (% of total) | 39.3 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.7 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 1.1 | 13.4 |
| Under-five mortality rate (per 1,000) | .. | 6.0 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

### Resilience

- Access to improved sanitation (% of total pop.): 94 / 100
- Access to improved water source (% of total pop.): 98 / 100
- Cereal yield (kg. per hectare): .. / 5,445
- Access to electricity (% of total population): .. / ..
- Paved roads (% of total roads): .. / 87.3
- Health workers (per 1,000 people): .. / 10.7
- Foreign direct investment, net inflows (% of GDP): .. / 1.8
- Invest. in infrastructure w/private participation ($ millions): .. / ..
- Disaster risk reduction progress score (1–5 scale; 5 = best): .. / ..
- Ease of doing business (ranking 1–183; 1 = best): .. / ..
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best): .. / ..
- Primary completion rate, total (% of relevant age group): .. / 97
- Ratio of girls to boys in primary & secondary school (%): .. / 100

### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons): .. / 11.9
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $): .. / 354.4
- CO₂ emissions, total (MtCO₂): .. / 13,285
- GHG net emissions/removals by LUCF (MtCO₂e): .. / 1,539
- Methane (CH₄) emissions, total (MtCO₂e): .. / 813
- Nitrous oxide (N₂O) emissions, total (MtCO₂e): .. / 460
- Other GHG emissions, total (MtCO₂e): .. / 4,944
- Energy use per capita (kilograms of oil equivalent): .. / 147.0
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $): .. / 147.0

### National-Level Actions

- Latest UNFCCC national communication: n/a
- Annex-I emissions reduction target: n/a
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: ..

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
### Exposure to Impacts

| Category | High Income | Country Data |
|----------|-------------|--------------|
| Land area below 5m (% of land area) | 4.9 | 2.2 |
| Population below 5m (% of total) | 9.3 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. ann. %, 1990–2010) | 1.1 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 0.5 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 5.4 | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 14.4 | 13.4 |
| Under-five mortality rate (per 1,000) | 3 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malawi incidence rate (per 100,000 people) | .. | .. |

### Resilience

| Category | High Income | Country Data |
|----------|-------------|--------------|
| Access to improved sanitation (% of total pop.) | 100 | 100 |
| Access to improved water source (% of total pop.) | 100 | 100 |
| Cereal yield (kg. per hectare) | 3,105 | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 80.5 | 87.3 |
| Health workers (per 1,000 people) | 18.8 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 2.8 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.8 | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 6 | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 100 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 99 | 100 |

### GHG Emissions and Energy Use

| Category | High Income | Country Data |
|----------|-------------|--------------|
| CO₂ emissions per capita (metric tons) | 10.5 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 215.9 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 50.0 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -25.3 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 16.9 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 4.7 | 813 |
| Other GHG emissions, total (MtCO₂e) | 5.2 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 6,332 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 134.9 | 147.0 |

### National-Level Actions

| Category | High Income | Country Data |
|----------|-------------|--------------|
| Latest UNFCCC national communication | 1/22/2010 (5th) | .. |
| Annex-I emissions reduction target (base year: 1990) | 30% / 40% | .. |
| NAMA submission | n/a | .. |
| NAPA submission | n/a | .. |
| Renewable energy target | .. | .. |

### Carbon Markets

| Category | High Income | Country Data |
|----------|-------------|--------------|
| Hosted Clean Development Mechanism (CDM) projects | n/a | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a | .. |
| Hosted Joint Implementation (JI) projects | .. | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | .. | .. |
## Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 1.1 | 2.2 |
| Population below 5m (% of total) | 5.5 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.4 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 94.7 | 104.4 |
| Agricultural land under irrigation (% of total ag. land) | 4.0 | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 10.7 | 13.7 |
| Under-five mortality rate (per 1,000) | 9 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

## Resilience

| Country data | High income |
|--------------|-------------|
| Access to improved sanitation (% of total pop.) | 87 | 100 |
| Access to improved water source (% of total pop.) | 88 | 100 |
| Cereal yield (kg, per hectare) | 3,473 | 5,445 |
| Access to electricity (% of total population) | 98.0 | .. |
| Paved roads (% of total roads) | 43.5 | 87.3 |
| Health workers (per 1,000 people) | 6.0 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 3.2 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 49 | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 80 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 97 | 100 |

## GHG Emissions and Energy Use

| Country data | High income |
|--------------|-------------|
| CO₂ emissions per capita (metric tons) | 17.3 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 703.9 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 45.7 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 17.8 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 0.6 | 813 |
| Other GHG emissions, total (MtCO₂e) | 0.2 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 5,554 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 229.3 | 147.0 |

## National-Level Actions

| Country data | High income |
|--------------|-------------|
| Latest UNFCCC national communication | .. | .. |
| Annex-I emissions reduction target | n/a | .. |
| NAMA submission | .. | .. |
| NAPA submission | n/a | .. |
| Renewable energy target | .. | .. |

## Carbon Markets

| Country data | High income |
|--------------|-------------|
| Hosted Clean Development Mechanism (CDM) projects | 0 | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 | .. |
| Hosted Joint Implementation (JI) projects | n/a | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. |

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Oman
### Population
- **(millions)**: 173.6
- **GDP ($ billions)**: 174.8
- **Pop. growth (avg. ann. %, 1990-2010)**: 2.2
- **GNI per capita (Atlas $)**: 1,050

### Climate
- Average daily min/max temperature (1961-90, Celsius): 13 / 27
- Projected annual temperature change (2045-65, Celsius): 2.4 to 3.4
- Average annual precipitation (1961-90, mm): 305
- Projected annual precipitation change (2045-65, mm): -60 to 36
- Projected change in annual hot days/warm nights: 3 / 8
- Projected change in annual cool days/cold nights: -2 / -2

### Exposure to Impacts

| Country data | South Asia | Lower middle income |
|--------------|------------|---------------------|
| Land area below 5m (% of land area) | 1.4 | 1.5 | 1.7 |
| Population below 5m (% of total) | 1.3 | 4.4 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 18 | 13 | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 3.1 | 2.7 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 1.1 |
| Annual freshwater withdrawals (% of internal resources) | 313.8 | 50.6 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | 73.9 |
| Population living below $1.25 a day (% of total) | 22.6 | 40.3 |
| Nationally terrestrial protected areas (% of total land area) | 10.3 | 6.1 | 9.5 |
| Under-five mortality rate (per 1,000) | 87 | 67 | 69 |
| Child malnutrition, underweight (% of under age five) | 31.3 | 42.5 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 881 | 1,127 | 4,874 |

### Resilience
- Access to improved sanitation (% of total pop.) | 45 | 36 | 45 |
- Access to improved water source (% of total pop.) | 90 | 87 | 84 |
- Cereal yield (kg. per hectare) | 2,790 | 2,728 | 2,754 |
- Access to electricity (% of total population) | 62.4 | 62.1 | 67.3 |
- Pavement (% of total roads) | 65.4 | 58.9 | 29.3 |
- Health workers (per 1,000 people) | 1.4 | 1.7 | 2.6 |
- Foreign direct investment, net inflows (% of GDP) | 1.2 | 1.3 | 2.4 |
- Invest. in infrastructure w/private participation ($ millions) | 437 | 73,548 | 81,789 |
- Disaster risk reduction progress score (1-5 scale; 5 = best) | 3.5 |
- Ease of doing business (ranking 1-183; 1 = best) | 105 |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 3.1 |
- Primary completion rate, total (% of relevant age group) | 61 | 86 | 88 |
- Ratio of girls to boys in primary & secondary school (%) | 82 | 92 | 93 |

### GHG Emissions and Energy Use
- CO2 emissions per capita (metric tons) | 1.0 | 1.3 | 1.6 |
- CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 420.7 | 504.6 | 523.9 |
- CO2 emissions, total (MtCO2) | 163.2 | 1,970 | 3,744 |
- GHG net emissions/removals by LUCF (1994, MtCO2e) | 6.5 |
- Methane (CH4) emissions, total (MtCO2e) | 137.4 | 846 | 1,705 |
- Nitrous oxide (N2O) emissions, total (MtCO2e) | 26.8 | 268 | 687 |
- Other GHG emissions, total (MtCO2e) | 0.8 | 9 | 17 |
- Energy use per capita (kilograms of oil equivalent) | 502 | 532 | 680 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 212.7 | 193.5 | 217.9 |

### National-Level Actions
- Latest UNFCCC national communication | 11/15/2003 (1st) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | .. |
- NAPA submission | n/a |
- Renewable energy target | Yes |

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | 12 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 2,983 |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### Exposure to Impacts

| Medium | Country data | East Asia & Pacific | Upper middle income |
|--------|--------------|---------------------|---------------------|
| Land area below 5m (% of land area) | 21.4 | 2.5 | 1.8 |
| Population below 5m (% of total) | 55.6 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | .. | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.4 | 3.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.8 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 2.0 | 14.9 | 13.6 |
| Under-five mortality rate (per 1,000) | 19 | 24 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | 9.0 | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | 525 | 80 |

### Resilience

- Access to improved sanitation (% of total pop.) 83
- Access to improved water source (% of total pop.) 84
- Cereal yield (kg. per hectare) 4,860
- Access to electricity (% of total population) 90.8
- Paved roads (% of total roads) 15.9
- Health workers (per 1,000 people) 7.2
- Foreign direct investment, net inflows (% of GDP) 1.4
- Invest. in infrastructure w/private participation ($ millions) 14,638
- Disaster risk reduction progress score (1–5 scale; 5 = best) 166
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) 104
- Ratio of girls to boys in primary & secondary school (%) 100

### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons) 10.5
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 827.5
- CO₂ emissions, total (MtCO₂) 8,259
- GHG net emissions/removals by LUCF (MtCO₂e) ..
- Methane (CH₄) emissions, total (MtCO₂e) 1,928
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) 707
- Other GHG emissions, total (MtCO₂e) ..
- Energy use per capita (kilograms of oil equivalent) 1,436
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 259.5

### National-Level Actions

- Latest UNFCCC national communication 6/18/2003 (1st)
- Annex-I emissions reduction target n/a
- NAMA submission ..
- NAPA submission n/a
- Renewable energy target ..

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects ..
- Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
- Hosted Joint Implementation (JI) projects n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
Panama

Population (millions) 3.5 GDP ($ billions) 26.8
Pop. growth (avg. ann. %, 1990–2010) 1.9 GNI per capita (Atlas $) 6,980

Climate
Average daily min/max temperature (1961-90, Celsius) 21 / 30
Projected annual temperature change (2045–65, Celsius) 1.6 to 2.2
Average annual precipitation (1961-90, mm) 2,692
Projected annual precipitation change (2045–65, mm) –228 to 107
Projected change in annual hot days/warm nights 14 / 27
Projected change in annual cool days/cold nights –3 / –3

Exposure to Impacts
Country data Latin America & the Carib. Upper middle income
Land area below 5m (% of land area) 3.7 1.5 1.8
Population below 5m (% of total) 4.0 3.8 6.5
Population in urban agglomerations > 1 million (%) 39 35 22
Urban pop. growth (avg. annual %, 1990–2010) 3.5 2.0 2.3
Droughts, floods, extreme temps (% pop. avg., 1990–2009) 0.2
Annual freshwater withdrawals (% of internal resources) 0.3 2.0 5.6
Agricultural land under irrigation (% of total ag. land) .. .. ..
Population living below $1.25 a day (% of total) 2.4 8.1 ..
Nationally terrestrial protected areas (% of total land area) 18.7 20.8 13.6
Under-five mortality rate (per 1,000) 20 23 20
Child malnutrition, underweight (% of under age five) .. 3.8 4.1
Malaria incidence rate (per 100,000 people) 35 206 80

Resilience
Access to improved sanitation (% of total pop.) 69 79 68
Access to improved water source (% of total pop.) 93 93 92
Cereal yield (kg. per hectare) 2,019 3,337 3,690
Access to electricity (% of total population) 88.1 93.4 98.0
Paved roads (% of total roads) 38.1 28.1 50.5
Health workers (per 1,000 people) 4.3 6.9 4.5
Foreign direct investment, net inflows (% of GDP) 8.8 2.3 2.7
Invest. in infrastructure w/private participation ($ millions) 339 33,064 26,166
Disaster risk reduction progress score (1–5 scale; 5 = best) 3.0
Ease of doing business (ranking 1–183; 1 = best) 61
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) ..
Primary completion rate, total (% of relevant age group) 102 102 98
Ratio of girls to boys in primary & secondary school (%) 101 102 103

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 2.0 2.8 5.3
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 173.8 285.6 659.4
CO₂ emissions, total (MtCO₂) 6.9 1,584 12,860
GHG net emissions/removals by LUCF (1994, MtCO₂e) 23.7
Methane (CH₄) emissions, total (MtCO₂e) 3.2 1,009 3,455
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 1.2 442 1,144
Other GHG emissions, total (MtCO₂e) 0.0 21 243
Energy use per capita (kilograms of oil equivalent) 896 1,245 1,848
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 75.5 130.6 227.1

National-Level Actions
Latest UNFCCC national communication 7/20/2001 (1st)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission ..
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 7
Issued Certified Emission Reductions (CERs) from CDM (thousands) 138
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Papua New Guinea

| Population (millions) | GDP ($ billions) | GNI per capita (Atlas $) |
|-----------------------|-----------------|--------------------------|
| 6.9                   | 9.5             | 1,300                    |

#### Climate
- Average daily min/max temperature (1961–90, Celsius): 20 / 30
- Projected annual temperature change (2045–65, Celsius): 1.4 to 1.8
- Average annual precipitation (1961–90, mm): 3,142
- Projected annual precipitation change (2045–65, mm): -163 to 421
- Projected change in annual hot days/warm nights: 16 / 26
- Projected change in annual cool days/cold nights: -3 / -3

#### Exposure to Impacts
| Land area below 5m (% of land area) | East Asia & Pacific | Lower middle income |
|------------------------------------|---------------------|--------------------|
| 1.8                                | 2.5                 | 1.7                |
| Population below 5m (% of total)    |                     |                    |
| 2.0                                | 10.3                | 6.5                |
| Population in urban agglomerations > 1 million (%) | .. | .. | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.6 | 3.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.7 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 0.0 | 10.8 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 35.8 | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 3.1 | 14.9 | 9.5 |
| Under-five mortality rate (per 1,000) | 61 | 24 | 69 |
| Child malnutrition, underweight (% of under age five) | 18.1 | 9.0 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 18,012 | 525 | 4,874 |

#### Resilience
- Access to improved sanitation (% of total pop.) | 45 | 59 | 45 |
- Access to improved water source (% of total pop.) | 40 | 88 | 84 |
- Cereal yield (kg, per hectare) | 4,415 | 4,860 | 2,754 |
- Access to electricity (% of total population) | .. | 90.8 | 67.3 |
- Paved roads (% of total roads) | 3.5 | 15.9 | 29.3 |
- Health workers (per 1,000 people) | 0.6 | 2.8 | 2.6 |
- Foreign direct investment, net inflows (% of GDP) | 0.3 | 3.0 | 2.4 |
- Invest in infrastructure w/private participation ($ millions) | 150 | 14,638 | 81,789 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1–183; 1 = best) | 101 | .. | .. |
- Public sector mgt & institutions avg. (1–6 scale; 6 = best) | 2.9 | .. | .. |
- Primary completion rate, total (% of relevant age group) | 53 | 97 | 88 |
- Ratio of girls to boys in primary & secondary school (%) | .. | 103 | 93 |

#### GHG Emissions and Energy Use
| CO₂ emissions per capita (metric tons) | 0.3 | 4.3 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 158.0 | 827.1 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 2.1 | 8,259 | 3,744 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | -0.4 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,928 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 707 | 687 |
| Other GHG emissions, total (MtCO₂e) | .. | .. | .. |
| Energy use per capita (kilograms of oil equivalent) | .. | 1,436 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 259.5 | 217.9 |

#### National-Level Actions
- Latest UNFCCC national communication | 2/27/2002 (1st) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | Yes |
- NAPA submission | n/a |
- Renewable energy target | .. |

#### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | 1 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 215 |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |

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*2011 The Little Data Book on Climate Change*
## Exposure to Impacts

| Country | Latin America & the Carib. | Lower middle income |
|---------|---------------------------|---------------------|
| Land area below 5m (% of land area) | 0.0 | 1.5 | 1.7 |
| Population below 5m (% of total) | 0.0 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 31 | 35 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.3 | 2.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.7 | | |
| Annual freshwater withdrawals (% of internal resources) | 0.5 | 2.0 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | | | |
| Population living below $1.25 a day (% of total) | 5.1 | 8.1 | |
| Nationally terrestrial protected areas (% of total land area) | 5.4 | 20.8 | 9.5 |
| Under-five mortality rate (per 1,000) | 25 | 23 | 69 |
| Child malnutrition, underweight (% of under age five) | .. | 3.8 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 16 | 206 | 4,874 |

## Resilience

| Access to improved sanitation (% of total pop.) | 70 | 79 | 45 |
| Access to improved water source (% of total pop.) | 86 | 93 | 84 |
| Cereal yield (kg. per hectare) | 2,358 | 3,337 | 2,754 |
| Access to electricity (% of total population) | 96.7 | 93.4 | 67.3 |
| Paved roads (% of total roads) | 50.8 | 28.1 | 29.3 |
| Health workers (per 1,000 people) | 2.9 | 6.9 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 2.3 | 2.3 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 45 | 33,064 | 81,789 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.8 | | |
| Ease of doing business (ranking 1–183; 1 = best) | 102 | | |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | | |
| Primary completion rate, total (% of relevant age group) | 93 | 102 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 100 | 102 | 93 |

## GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.7 | 2.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 151.9 | 285.6 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 4.1 | 1,584 | 3,744 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | 19.5 | | |
| Methane (CH₄) emissions, total (MtCO₂e) | 15.4 | 1,009 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 9.1 | 442 | 687 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | 21 | 17 |
| Energy use per capita (kilograms of oil equivalent) | 749 | 2,145 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 182.3 | 130.6 | 217.9 |

## National-Level Actions

| Latest UNFCCC national communication | 4/10/2002 (1st) |
| Annex-I emissions reduction target | n/a |
| NAMA submission | .. |
| NAPA submission | n/a |
| Renewable energy target | .. |

## Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | 2 |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 |
| Hosted Joint Implementation (JI) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
Peru

Population (millions) 29.1 GDP ($ billions) 153.8
Pop. growth (avg. ann. %, 1990–2010) 1.5 GNI per capita (Atlas $) 4,780

Climate
Average daily min/max temperature (1961–90, Celsius) 14 / 26
Projected annual temperature change (2045–65, Celsius) 2.1 to 2.7
Average annual precipitation (1961–90, mm) 1,493
Projected annual precipitation change (2045–65, mm) -57 to 181
Projected change in annual hot days/warm nights 8 / 23
Projected change in annual cool days/cold nights -3 / -3

Exposure to Impacts
| Country data | Latin America & the Carib. | Upper middle income |
|--------------|---------------------------|---------------------|
| Land area below 5m (% of land area) | 0.4 | 1.5 | 1.8 |
| Population below 5m (% of total) | 1.7 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 31 | 35 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.7 | 2.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 2.0 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 1.2 | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 5.9 | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 13.6 | 20.8 | 13.6 |
| Under-five mortality rate (per 1,000) | 19 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 5.4 | 3.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | 478 | 206 | 80 |

Resilience
Access to improved sanitation (% of total pop.) 68 Access to improved water source (% of total pop.) 82 Cereal yield (kg. per hectare) 3,910 Access to electricity (% of total population) 85.7 Paved roads (% of total roads) 13.9 Health workers (per 1,000 people) 2.2 Foreign direct investment, net inflows (% of GDP) 4.8 Invest. in infrastructure w/private participation ($ millions) 1,663 Disaster risk reduction progress score (1–5 scale; 5 = best) 3.0 Ease of doing business (ranking 1–183; 1 = best) 41 Public sector mgmt & institutions avg. (1–6 scale; 6 = best) .. Primary completion rate, total (% of relevant age group) 101 Ratio of girls to boys in primary & secondary school (%) 99

GHH Emissions and Energy Use
CO₂ emissions per capita (metric tons) 1.4 CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 178.7 CO₂ emissions, total (MtCO₂) 40.5 GHG net emissions/removals by LUCF (2000, MtCO₂e) 56.8 Methane (CH₄) emissions, total (MtCO₂e) 17.2 Nitrous oxide (N₂O) emissions, total (MtCO₂e) 7.6 Other GHG emissions, total (MtCO₂e) 0.3 Energy use per capita (kilograms of oil equivalent) 550 Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 69.2

National-Level Actions
Latest UNFCCC national communication 9/28/2010 (2nd) Annex-I emissions reduction target n/a NAMA submission Yes, with Goal NAPA submission n/a Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 25 Issued Certified Emission Reductions (CERs) from CDM (thousands) 620 Hosted Joint Implementation (JI) projects n/a Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
Philippines

Population (millions) 93.3  GDP ($ billions) 199.6  
Pop. growth (avg. ann. %, 1990–2010) 2.1  GNI per capita (Atlas $) 2,060

Climate
Average daily min/max temperature (1961–90, Celsius) 22 / 30
Projected annual temperature change (2045–65, Celsius) 1.4 to 1.8
Average annual precipitation (1961–90, mm) 2,348
Projected annual precipitation change (2045–65, mm) -136 to 140
Projected change in annual hot days/warm nights 13 / 24
Projected change in annual cool days/cold nights -2 / -3

Exposure to Impacts

| Country data | East Asia & Pacific | Lower middle income |
|--------------|---------------------|---------------------|
| Land area below 5m (% of land area) | 6.0 | 2.5 | 1.7 |
| Population below 5m (% of total) | 10.5 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 14 | .. | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.6 | 3.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.8 | | |
| Annual freshwater withdrawals (% of internal resources) | 16.5 | 10.8 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 22.6 | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 10.9 | 14.9 | 9.5 |
| Under-five mortality rate (per 1,000) | 29 | 24 | 69 |
| Child malnutrition, underweight (% of under age five) | 20.7 | 9.0 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 96 | 525 | 4,874 |

Resilience
Access to improved sanitation (% of total pop.) 76 | 59 | 45
Access to improved water source (% of total pop.) 91 | 88 | 84
Cereal yield (kg. per hectare) 3,229 | 4,860 | 2,754
Access to electricity (% of total population) 89.7 | 90.8 | 67.3
Paved roads (% of total roads) 9.9 | 15.9 | 29.3
Health workers (per 1,000 people) 7.2 | 2.8 | 2.6
Foreign direct investment, net inflows (% of GDP) 0.9 | 3.0 | 2.4
Invest. in infrastructure w/private participation ($ millions) 2,817 | 14,638 | 81,789
Disaster risk reduction progress score (1–5 scale; 5 = best) .. | .. | ..
Ease of doing business (ranking 1–183; 1 = best) 136
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) .. | .. | ..
Primary completion rate, total (% of relevant age group) 94 | 97 | 88
Ratio of girls to boys in primary & secondary school (%) 102 | 103 | 93

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 0.9 | 4.3 | 1.6
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 272.6 | 827.1 | 523.9
CO₂ emissions, total (MtCO₂) 83.2 | 8,259 | 3,744
GHG net emissions/removals by LUCF (1994, MtCO₂e) -0.1
Methane (CH₄) emissions, total (MtCO₂e) 51.9 | 1,928 | 1,705
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 13.0 | 707 | 687
Other GHG emissions, total (MtCO₂e) 0.4 | .. | 17
Energy use per capita (kilograms of oil equivalent) 424 | 1,436 | 680
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 125.9 | 259.5 | 217.9

National-Level Actions
Latest UNFCCC national communication 5/19/2000 (1st)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission n/a
Renewable energy target Yes

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 57
Issued Certified Emission Reductions (CERs) from CDM (thousands) 245
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
## Poland

| Population (millions) | 38.2 | GDP ($ billions) | 468.6 |
|-----------------------|------|-----------------|-------|
| Pop. growth (avg. ann. %, 1990-2010) | 0.0 | GNI per capita (Atlas $) | 12,410 |

### Climate
- Average daily min/max temperature (1961-90, Celsius): 4 / 12
- Projected annual temperature change (2045-65, Celsius): 1.9 to 2.8
- Average annual precipitation (1961-90, mm): 600
- Projected annual precipitation change (2045-65, mm): -12 to 64
- Projected change in annual hot days/warm nights: 2 / 5
- Projected change in annual cool days/cold nights: -2 / -2

### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 1.7 | 2.2 |
| Population below 5m (% of total) | 2.5 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 4 | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.0 | 1.0 |
| Droughts, floods, extreme temps (% popul. avg., 1990-2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 24.5 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 0.4 | .. |
| Population living below $1.25 a day (% of total) | <2 | .. |
| Nationally terrestrial protected areas (% of total land area) | 21.8 | 13.4 |
| Under-five mortality rate (per 1,000) | 6 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

### Resilience

| Country data | High income |
|--------------|-------------|
| Access to improved sanitation (% of total pop.) | 90 | 100 |
| Access to improved water source (% of total pop.) | 100 | 100 |
| Cereal yield (kg. per hectare) | 3,475 | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | 68.2 | 87.3 |
| Health workers (per 1,000 people) | 7.9 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 1.9 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | 4,638 | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 3.3 | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 62 | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 95 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 100 | 100 |

### GHG Emissions and Energy Use

| Country data | High income |
|--------------|-------------|
| CO₂ emissions per capita (metric tons) | 8.3 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 503.8 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 316.1 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -37.2 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 70.0 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 30.2 | 813 |
| Other GHG emissions, total (MtCO₂e) | 2.5 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 2,663 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 153.6 | 147.0 |

### National-Level Actions

- Latest UNFCCC national communication: 3/12/2010 (5th)
- Annex-I emissions reduction target (base year: 1990): 20% / 30% (EU)
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: Yes

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: 17
- Issued Emission Reduction Units (ERUs) from JI (thousands): 0
Portugal

| Population (millions) | 10.6 | GDP ($ billions) | 228.5 |
|-----------------------|------|-----------------|-------|
| Pop. growth (avg. ann. %, 1990-2010) | 0.4 | GNI per capita (Atlas $) | 21,850 |

**Climate**

- Average daily min/max temperature (1961-90, Celsius): 10 / 20
- Projected annual temperature change (2045-65, Celsius): 1.3 to 2.3
- Average annual precipitation (1961-90, mm): 855
- Projected annual precipitation change (2045-65, mm): -113 to -7
- Projected change in annual hot days/warm nights: 5 / 9
- Projected change in annual cool days/cold nights: -2 / -2

**Exposure to Impacts**

| Data | Country | High income |
|------|---------|-------------|
| Land area below 5m (% of land area) | 2.3 | 2.2 |
| Population below 5m (% of total) | 5.2 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 39 | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 1.5 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 31.3 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 11.4 | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 5.9 | 13.4 |
| Under-five mortality rate (per 1,000) | 4 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

**Resilience**

- Access to improved sanitation (% of total pop.): 100
- Access to improved water source (% of total pop.): 99
- Cereal yield (kg, per hectare): 3,455 / 5,445
- Access to electricity (% of total population): .. / ..
- Paved roads (% of total roads): 86.0 / 87.3
- Health workers (per 1,000 people): 3.8 / 10.7
- Foreign direct investment, net inflows (% of GDP): 0.6 / 1.8
- Invest. in infrastructure w/private participation ($ millions): .. / ..
- Disaster risk reduction progress score (1-5 scale; 5 = best): .. / ..
- Ease of doing business (ranking 1-183; 1 = best): 30
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best): .. / ..
- Primary completion rate, total (% of relevant age group): 103 / 97
- Ratio of girls to boys in primary & secondary school (%): 101 / 100

**GHG Emissions and Energy Use**

| Data | Country | High income |
|------|---------|-------------|
| CO₂ emissions per capita (metric tons) | 5.3 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 241.4 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 56.3 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -14.1 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 12.2 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 6.0 | 813 |
| Other GHG emissions, total (MtCO₂-e) | 0.8 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 2,210 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 102.0 | 147.0 |

**National-Level Actions**

- Latest UNFCCC national communication: 6/11/2010 (5th)
- Annex-I emissions reduction target (base year: 1990): 20% / 30% (EU)
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: Yes

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: ..
- Issued Emission Reduction Units (ERUs) from JI (thousands): ..
## Puerto Rico

| Country data | High income |
|--------------|-------------|
| Population (millions) | 4.0 |
| GDP ($ millions) | .. |
| Pop. growth (avg. ann. %, 1990–2010) | 0.6 |
| GNI per capita (Atlas $) | .. |

### Climate

| Average daily min/max temperature (1961–90, Celsius) | 21 / 29 |
| Projected annual temperature change (2045–65, Celsius) | 1.4 to 1.8 |
| Average annual precipitation (1961–90, mm) | 2,054 |
| Projected annual precipitation change (2045–65, mm) | -133 to 37 |
| Projected change in annual hot days/warm nights | 13 / 24 |
| Projected change in annual cool days/cold nights | -3 / -3 |

### Exposure to Impacts

| Land area below 5m (% of land area) | 7.7 |
| Population below 5m (% of total) | 11.3 |
| Population in urban agglomerations > 1 million (%) | 69 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.2 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 |
| Annual freshwater withdrawals (% of internal resources) | 14.0 |
| Agricultural land under irrigation (% of total ag. land) | 8.5 |
| Population living below $1.25 a day (% of total) | .. |
| Nationally terrestrial protected areas (% of total land area) | 10.1 |
| Under-five mortality rate (per 1,000) | .. |
| Child malnutrition, underweight (% of under age five) | .. |
| Malaria incidence rate (per 100,000 people) | .. |

### Resilience

| Access to improved sanitation (% of total pop.) | .. |
| Access to improved water source (% of total pop.) | .. |
| Cereal yield (kg. per hectare) | 1,878 |
| Health workers (per 1,000 people) | .. |
| Foreign direct investment, net inflows (% of GDP) | .. |
| Invest. in infrastructure w/private participation ($ millions) | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 43 |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. |
| Primary completion rate, total (% of relevant age group) | .. |
| Ratio of girls to boys in primary & secondary school (%) | 97 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | .. |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. |
| CO₂ emissions, total (MtCO₂) | .. |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. |
| Other GHG emissions, total (MtCO₂e) | .. |
| Energy use per capita (kilograms of oil equivalent) | .. |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. |

### National-Level Actions

| Latest UNFCCC national communication | n/a |
| Annex-I emissions reduction target | n/a |
| NAMA submission | n/a |
| NAPA submission | n/a |
| Renewable energy target | .. |

### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
| Hosted Joint Implementation (JI) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |

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| Country data | High income |
|--------------|-------------|
| Population (millions) | 1.8 | GDP ($ billions) | 98.3 |
| Pop. growth (avg. ann. %, 1990-2010) | 6.6 | GNI per capita (Atlas $) | .. |

**Climate**

Average daily min/max temperature (1961-90, Celsius) | 21 / 33 |
Projected annual temperature change (2045-65, Celsius) | 2.3 to 2.9 |
Average annual precipitation (1961-90, mm) | 74 |
Projected annual precipitation change (2045-65, mm) | -23 to 8 |
Projected change in annual hot days/warm nights | 5 / 9 |
Projected change in annual cool days/cold nights | -2 / -2 |

**Exposure to Impacts**

- Land area below 5m (% of land area) | 13.4 |
- Population below 5m (% of total) | 23.1 |
- Population in urban agglomerations > 1 million (%) | .. |
- Urban pop. growth (avg. annual %, 1990-2010) | 6.8 |
- Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. |
- Annual freshwater withdrawals (% of internal resources) | 471.4 |
- Agricultural land under irrigation (% of total ag. land) | .. |
- Population living below $1.25 a day (% of total) | 0.7 |
- Nationally terrestrial protected areas (% of total land area) | 8.7 |
- Under-five mortality rate (per 1,000) | 8 |
- Child malnutrition, underweight (% of under age five) | .. |
- Malaria incidence rate (per 100,000 people) | .. |

**Resilience**

- Access to improved sanitation (% of total pop.) | 100 |
- Access to improved water source (% of total pop.) | 100 |
- Cereal yield (kg. per hectare) | 4,746 |
- Access to electricity (% of total population) | 98.7 |
- Pavement roads (% of total roads) | 90.0 |
- Health workers (per 1,000 people) | 10.1 |
- Foreign direct investment, net inflows (% of GDP) | 8.3 |
- Invest. in infrastructure w/private participation ($ millions) | .. |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | 36 |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 108 |
- Primary completion rate, total (% of relevant age group) | 100 |
- Ratio of girls to boys in primary & secondary school (%) | 100 |

**GHG Emissions and Energy Use**

- CO₂ emissions per capita (metric tons) | 49.1 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 636.1 |
- CO₂ emissions, total (MtCO₂) | 68.5 |
- GHG net emissions/removals by LUCF (MtCO₂e) | .. |
- Methane (CH₄) emissions, total (MtCO₂e) | 15.7 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 0.2 |
- Other GHG emissions, total (MtCO₂e) | 0.0 |
- Energy use per capita (kilograms of oil equivalent) | 14,911 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 203.7 |

**National-Level Actions**

- Latest UNFCCC national communication | 6/20/2011 (1st) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | .. |
- NAPA submission | n/a |
- Renewable energy target | .. |

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects | 1 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### Romania

| Population (millions) | 21.4 | GDP ($ billions) | 161.6 |
|-----------------------|------|-----------------|-------|
| Pop. growth (avg. ann. %, 1990–2010) | -0.4 | GNI per capita (Atlas $) | 7,840 |

### Climate
- Average daily min/max temperature (1961–90, Celsius): 4 / 14
- Projected annual temperature change (2045–65, Celsius): 2.0 to 3.1
- Average annual precipitation (1961–90, mm): 637
- Projected annual precipitation change (2045–65, mm): -92 to 2
- Projected change in annual hot days/warm nights: 3 / 5
- Projected change in annual cool days/cold nights: -1 / -2

### Exposure to Impacts

| Country data | Europe & Central Asia | Upper middle income |
|--------------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 2.9 | 2.5 | 1.8 |
| Population below 5m (% of total) | 2.9 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 9 | 18 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | -0.3 | 0.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.1 | |
| Annual freshwater withdrawals (% of internal resources) | 21.7 | 6.5 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 2.2 | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 7.1 | 7.5 | 13.6 |
| Under-five mortality rate (per 1,000) | 14 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 3.5 | .. | 4.1 |
| Malanwa incidence rate (per 100,000 people) | .. | 80 |

### Resilience
- Access to improved sanitation (% of total pop.) | 72 | 89 | 68 |
- Access to improved water source (% of total pop.) | .. | 95 | 92 |
- Cereal yield (kg. per hectare) | 2.825 | 2,475 | 3,690 |
- Access to electricity (% of total population) | .. | .. | 98.0 |
- Paved roads (% of total roads) | 30.2 | 85.8 | 50.5 |
- Health workers (per 1,000 people) | 6.1 | 9.9 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | 2.1 | 2.8 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 680 | 22,652 | 26,166 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.3 | |
- Ease of doing business (ranking 1–183; 1 = best) | 72 | |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | |
- Primary completion rate, total (% of relevant age group) | 96 | 95 | 98 |
- Ratio of girls to boys in primary & secondary school (%) | 99 | 97 | 103 |

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 4.4 | 7.7 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 373.1 | 708.0 | 659.4 |
- CO₂ emissions, total (MtCO₂) | 94.7 | 3,110 | 12,860 |
- GHG net emissions/removals by LUCF (2009, MtCO₂e) | -36.5 | |
- Methane (CH₄) emissions, total (MtCO₂e) | 24.3 | 937 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 11.5 | 214 | 1,144 |
- Other GHG emissions, total (MtCO₂e) | 0.7 | 76 | 243 |
- Energy use per capita (kilograms of oil equivalent) | 1,602 | 2,833 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 148.2 | 276.8 | 227.1 |

### National-Level Actions
- Latest UNFCCC national communication | 2/15/2010 (5th) |
- Annex-I emissions reduction target (base year: 1990) | 20% / 30% (EU) |
- NAMA submission | n/a |
- NAPA submission | n/a |
- Renewable energy target | Yes |

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | n/a |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
- Hosted Joint Implementation (JI) projects | 15 |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | 2,405 |

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### Russian Federation

| Population (millions) | GDP ($) | GNI per capita ($) |
|-----------------------|---------|--------------------|
| 141.8                 | 1,479.8 | 9,910              |

**Climate**

- Average daily min/max temperature (1961–90, Celsius): -10 / 0
- Projected annual temperature change (2045–65, Celsius): 2.6 to 3.7
- Average annual precipitation (1961–90, mm): 460
- Projected annual precipitation change (2045–65, mm): 24 to 79
- Projected change in annual hot days/warm nights: 2 / 4
- Projected change in annual cool days/cold nights: -2 / -2

| Exposure to Impacts | Country data | Europe & Central Asia | Upper middle income |
|---------------------|--------------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 1.9 | 2.5 | 1.8 |
| Population below 5m (% of total) | 2.9 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 18 | 18 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | -0.3 | 0.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.1 | | |
| Annual freshwater withdrawals (% of internal resources) | 1.5 | 6.5 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 2.5 | | |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | |
| Nationally terrestrial protected areas (% of total land area) | 9.0 | 7.5 | 13.6 |
| Under-five mortality rate (per 1,000) | 12 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | 4.1 | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. | 80 |

**Resilience**

- Access to improved sanitation (% of total pop.): 87
- Access to improved water source (% of total pop.): 96
- Cereal yield (kg, per hectare): 2,281
- Access to electricity (% of total population): ..
- Paved roads (% of total roads): 80.1
- Health workers (per 1,000 people): 12.8
- Foreign direct investment, net inflows (% of GDP): 2.9
- Invest. in infrastructure w/private participation ($ millions): 16,097
- Disaster risk reduction progress score (1–5 scale; 5 = best): ..
- Ease of doing business (ranking 1–183; 1 = best): 120
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best): ..
- Ratio of girls to boys in primary & secondary school (%): 98
- GHG Emissions and Energy Use
  - CO2 emissions per capita (metric tons) | 12.0 | 7.7 | 5.3 |
  - CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 815.1 | 708.0 | 659.4 |
  - CO2 emissions, total (MtCO2) | 1,708.7 | 3,110 | 12,860 |
  - GHG net emissions/removals by LUCF (2009, MtCO2e) | -656.5 | | |
  - Methane (CH4) emissions, total (MtCO2e) | 562.8 | 937 | 3,455 |
  - Nitrous oxide (N2O) emissions, total (MtCO2e) | 76.1 | 214 | 1,144 |
  - Other GHG emissions, total (MtCO2e) | 59.7 | 76 | 243 |
  - Energy use per capita (kilograms of oil equivalent) | 4,561 | 2,833 | 1,848 |
  - Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 334.8 | 276.8 | 227.1 |

**National-Level Actions**

- Latest UNFCCC national communication: 3/16/2010 (5th)
- Annex-I emissions reduction target (base year: 1990): 15% / 25%
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: Yes

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: 25
- Issued Emission Reduction Units (ERUs) from JI (thousands): 7,211
Rwanda

Population (millions) 10.6 GDP ($ billions) 5.6
Pop. growth (avg. ann. %, 1990–2010) 2.0 GNI per capita (Atlas $) 520

Climate
Average daily min/max temperature (1961–90, Celsius) 12 / 24
Projected annual temperature change (2045–65, Celsius) 2.1 to 2.4
Average annual precipitation (1961–90, mm) 1,212
Projected annual precipitation change (2045–65, mm) -12 to 211
Projected change in annual hot days/warm nights 8 / 26
Projected change in annual cool days/cold nights -2 / -3

Exposure to Impacts

| Country data | Sub-Saharan Africa | Low income |
|--------------|-------------------|------------|
| Land area below 5m (% of land area) | 0.0 | 0.4 | 0.7 |
| Population below 5m (% of total) | 0.0 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | .. | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 8.3 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 1.3 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 1.6 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 76.8 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 10.0 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 91 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 18.0 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 11,429 | 26,113 | 16,659 |

Resilience

| Access to improved sanitation (% of total pop.) | 54 | 31 | 35 |
| Access to improved water source (% of total pop.) | 65 | 60 | 63 |
| Cereal yield (kg, per hectare) | 1,829 | 1,297 | 2,047 |
| Access to electricity (% of total population) | .. | 32.5 | 23.0 |
| Paved roads (% of total roads) | 19.0 | 18.3 | 14.1 |
| Health workers (per 1,000 people) | 0.5 | 1.2 | 0.7 |
| Foreign direct investment, net inflows (% of GDP) | 0.8 | 3.6 | 3.2 |
| Invest. in infrastructure w/private participation ($ millions) | 63 | 11,957 | 4,471 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 45 | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 3.7 | .. | .. |
| Primary completion rate, total (% of relevant age group) | 54 | 67 | 65 |
| Ratio of girls to boys in primary & secondary school (%) | 100 | 89 | 91 |

GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.1 | 0.8 | 0.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 71.1 | 428.6 | 270.2 |
| CO₂ emissions, total (MtCO₂) | 0.7 | 685 | 219 |
| GHG net emissions/removals by LUCF (2002, MtCO₂e) | .. | 590 | 436 |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | .. | .. |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 334 | 209 |
| Other GHG emissions, total (MtCO₂e) | .. | .. | .. |
| Energy use per capita (kilograms of oil equivalent) | .. | 689 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 308.4 | 303.9 |

National-Level Actions

| Latest UNFCCC national communication | 9/6/2005 (1st) | n/a | n/a |
| Annex-I emissions reduction target | .. | n/a | n/a |
| NAMA submission | .. | .. | .. |
| NAPA submission | Yes | Yes | Yes |
| Renewable energy target | Yes | Yes | Yes |

Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | 3 | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 | .. | .. |
| Hosted Joint Implementation (JI) projects | n/a | .. | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. | .. |
## Exposure to Impacts

| Country | East Asia & Pacific | Lower middle income |
|---------|---------------------|---------------------|
| Land area below 5m (% of land area) | 7.3 | 2.5 | 1.7 |
| Population below 5m (% of total) | 15.6 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | .. | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.1 | 3.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.8 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 3.4 | 14.9 | 9.5 |
| Under-five mortality rate (per 1,000) | 20 | 24 | 69 |
| Child malnutrition, underweight (% of under age five) | .. | 9.0 | 31.7 |
| Malaria incidence rate (per 100,000 people) | .. | 525 | 4,874 |

## Resilience

| Access to improved sanitation (% of total pop.) | 100 | 59 | 45 |
| Access to improved water source (% of total pop.) | 88 | 88 | 84 |
| Cereal yield (kg, per hectare) | .. | 4,860 | 2,754 |
| Access to electricity (% of total population) | .. | 90.8 | 67.3 |
| Paved roads (% of total roads) | 14.2 | 15.9 | 29.3 |
| Health workers (per 1,000 people) | 1.2 | 2.8 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 0.4 | 3.0 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | .. | 14,638 | 81,789 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.5 | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 60 | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 4.0 | .. | .. |
| Primary completion rate, total (% of relevant age group) | 93 | 97 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 105 | 103 | 93 |

## GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.9 | 4.3 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 213.0 | 827.1 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 0.2 | 8,259 | 3,744 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | -0.1 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,928 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 707 | 687 |
| Other GHG emissions, total (MtCO₂e) | .. | .. | 17 |
| Energy use per capita (kilograms of oil equivalent) | 320 | 1,436 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 80.4 | 259.5 | 217.9 |

## National-Level Actions

| Latest UNFCCC national communication | 6/14/2010 (2nd) | .. | .. |
| Annex-I emissions reduction target | n/a | .. | .. |
| NAMA submission | .. | Yes | .. |
| NAPA submission | .. | .. | .. |
| Renewable energy target | .. | .. | .. |

## Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | .. | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | .. | .. |
| Hosted Joint Implementation (JI) projects | n/a | .. | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. | .. |
## San Marino

**Population (thousands)** 31.5  
**GDP ($ billions)** 1.9  
**Pop. growth (avg. ann. %, 1990–2010)** 1.3  
**GNI per capita (Atlas $)** 50,400

### Climate

|                                | Country data | High income |
|--------------------------------|--------------|-------------|
| Average daily min/max temperature (1961–90, Celsius) | 8 / 16 |  |
| Projected annual temperature change (2045–65, Celsius) | 1.9 to 3.0 |  |
| Average annual precipitation (1961–90, mm) | 840 |  |
| Projected annual precipitation change (2045–65, mm) | -111 to 3 |  |
| Projected change in annual hot days/warm nights | 4 / 6 |  |
| Projected change in annual cool days/cold nights | -1 / -1 |  |

### Exposure to Impacts

|                                | Country data | High income |
|--------------------------------|--------------|-------------|
| Land area below 5m (% of land area) | 0.0 | 2.2 |
| Population below 5m (% of total) | 0.0 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.5 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | .. | 13.4 |
| Under-five mortality rate (per 1,000) | 2 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

### Resilience

|                                | Country data | High income |
|--------------------------------|--------------|-------------|
| Access to improved sanitation (% of total pop.) | .. | 100 |
| Access to improved water source (% of total pop.) | .. | 100 |
| Cereal yield (kg. per hectare) | .. | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | .. | 87.3 |
| Health workers (per 1,000 people) | .. | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | .. | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 92 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 103 | 100 |

### GHG Emissions and Energy Use

|                                | Country data | High income |
|--------------------------------|--------------|-------------|
| CO₂ emissions per capita (metric tons) | .. | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 354.4 |
| CO₂ emissions, total (MtCO₂) | .. | 13,285 |
| GHG net emissions/removals by LUCF (2007, MtCO₂e) | 0.0 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 813 |
| Other GHG emissions, total (MtCO₂e) | .. | 460 |
| Energy use per capita (kilograms of oil equivalent) | .. | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 147.0 |

### National-Level Actions

|                                | Country data | High income |
|--------------------------------|--------------|-------------|
| Latest UNFCCC national communication | 8/24/2009 (1st) | .. |
| Annex-I emissions reduction target | n/a | .. |
| NAMA submission | Yes | .. |
| NAPA submission | n/a | .. |
| Renewable energy target | .. | .. |

### Carbon Markets

|                                | Country data | High income |
|--------------------------------|--------------|-------------|
| Hosted Clean Development Mechanism (CDM) projects | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | .. |
| Hosted Joint Implementation (JI) projects | n/a | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. |
### São Tomé and Príncipe

| Country data | Sub-Saharan Africa | Lower middle income |
|--------------|-------------------|---------------------|
| Population (thousands) | 165.4 | GDP ($ millions) | 196.8 |
| Pop. growth (avg. ann. %, 1990-2010) | 1.8 | GNI per capita (Atlas $) | 1,200 |

#### Climate
- Average daily min/max temperature (1961-90, Celsius): 21 / 27
- Projected annual temperature change (2045-65, Celsius): 1.5 to 2.0
- Average annual precipitation (1961-90, mm): 2,169
- Projected annual precipitation change (2045-65, mm): -42 to 137
- Projected change in annual hot days/warm nights: 20 / 27
- Projected change in annual cool days/cold nights: -3 / -3

#### Exposure to Impacts

| Parameter | Country data | Sub-Saharan Africa | Lower middle income |
|-----------|--------------|-------------------|---------------------|
| Land area below 5m (% of land area) | 14.7 | 0.4 | 1.7 |
| Population below 5m (% of total) | 11.1 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 14 | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 3.5 | 4.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 0.3 | 3.2 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 29.7 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | .. | 11.7 | 9.5 |
| Under-five mortality rate (per 1,000) | 80 | 121 | 69 |
| Child malnutrition, underweight (% of under age five) | 13.1 | 24.6 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 1,961 | 26,113 | 4,874 |

#### Resilience

| Parameter | Country data | Sub-Saharan Africa | Lower middle income |
|-----------|--------------|-------------------|---------------------|
| Access to improved sanitation (% of total pop. | 26 | 31 | 45 |
| Access to improved water source (% of total pop.) | 89 | 60 | 84 |
| Cereal yield (kg. per hectare) | 4,056 | 1,297 | 2,754 |
| Access to electricity (% of total population) | .. | 32.5 | 67.3 |
| Paved roads (% of total roads) | 68.1 | 18.3 | 29.3 |
| Health workers (per 1,000 people) | 2.4 | 1.2 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 1.5 | 3.6 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 50 | 11,957 | 81,789 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 163 | .. | .. |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 3.1 | .. | .. |
| Primary completion rate, total (% of relevant age group) | 85 | 67 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 100 | 89 | 93 |

#### GHG Emissions and Energy Use

| Parameter | Country data | Sub-Saharan Africa | Lower middle income |
|-----------|--------------|-------------------|---------------------|
| CO₂ emissions per capita (metric tons) | 0.8 | 0.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 496.2 | 428.6 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 0.1 | 685 | 3,744 |
| GHG net emissions/removals by LUCF (1998, MtCO₂e) | -1.5 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 590 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 334 | 687 |
| Other GHG emissions, total (MtCO₂e) | .. | .. | 17 |
| Energy use per capita (kilograms of oil equivalent) | 280 | 689 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 180.0 | 308.4 | 217.9 |

#### National-Level Actions

| Parameter | Country data | Sub-Saharan Africa | Lower middle income |
|-----------|--------------|-------------------|---------------------|
| Latest UNFCCC national communication | 5/19/2005 (1st) | .. | .. |
| Annex-I emissions reduction target | n/a | .. | .. |
| NAMA submission | .. | .. | .. |
| NAPA submission | Yes | .. | .. |
| Renewable energy target | .. | .. | .. |

#### Carbon Markets

| Parameter | Country data | Sub-Saharan Africa | Lower middle income |
|-----------|--------------|-------------------|---------------------|
| Hosted Clean Development Mechanism (CDM) projects | .. | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | .. | .. |
| Hosted Joint Implementation (JI) projects | n/a | .. | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. | .. |
### Saudi Arabia

| Population (millions) | 27.4 | GDP ($ billions) | 434.7 |
|----------------------|------|-----------------|-------|
| Pop. growth (avg. ann. %, 1990-2010) | 2.7 | GNI per capita (Atlas $) | 16,190 |

#### Climate
- Average daily min/max temperature (1961-90, Celsius): 18 / 31
- Projected annual temperature change (2045-65, Celsius): 2.3 to 2.9
- Average annual precipitation (1961-90, mm): ..
- Projected annual precipitation change (2045-65, mm): -27 to 9
- Projected change in annual hot days/warm nights: 5 / 9
- Projected change in annual cool days/cold nights: -1 / -2

#### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 0.5 | 2.2 |
| Population below 5m (% of total) | 1.0 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 39 | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 3.1 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 943.3 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 31.3 | 13.4 |
| Under-five mortality rate (per 1,000) | 18 | 6 |
| Child malnutrition, underweight (% of under age five) | 5.3 | .. |
| Malaria incidence rate (per 100,000 people) | 7 | .. |

#### Resilience

| Access to improved sanitation (% of total pop.) | 99 | 100 |
| Access to improved water source (% of total pop.) | 96 | 100 |
| Cereal yield (kg. per hectare) | 4,161 | 5,445 |
| Access to electricity (% of total population) | 99.0 | .. |
| Paved roads (% of total roads) | 21.5 | 87.3 |
| Health workers (per 1,000 people) | 3.0 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 5.0 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 12 | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 88 | 97 |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 91 | 100 |
| Ratio of girls to boys in primary & secondary school (%) | .. | .. |

#### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 16.6 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 805.7 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 433.6 | 13,285 |
| GHG net emissions/removals by LUCF (1990, MtCO₂) | -15.2 | .. |
| Methane (CH₄) emissions, total (MtCO₂) | 48.2 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂) | 6.5 | 813 |
| Other GHG emissions, total (MtCO₂) | 2.2 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 5,888 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 292.9 | 147.0 |

#### National-Level Actions
- Latest UNFCCC national communication: 11/29/2005 (1st)
- Annex-I emissions reduction target: n/a
- NAMA submission: ..
- NAPA submission: n/a
- Renewable energy target: ..

#### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects: 0
- Issued Certified Emission Reductions (CERs) from CDM (thousands): 0
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
Senegal

Population (millions) 12.4 GDP ($ billions) 13.0
Pop. growth (avg. ann. %, 1990-2010) 2.7 GNI per capita (Atlas $) 1,090

Climate
Average daily min/max temperature (1961-90, Celsius) 21 / 35
Projected annual temperature change (2045-65, Celsius) 2.0 to 2.7
Average annual precipitation (1961-90, mm) 687
Projected annual precipitation change (2045-65, mm) -124 to 37
Projected change in annual hot days/warm nights 7 / 17
Projected change in annual cool days/cold nights -2 / -3

Exposure to Impacts

| Country data | Sub-Saharan Africa | Lower middle income |
|--------------|-------------------|---------------------|
| Land area below 5m (% of land area) | 4.5 | 0.4 | 1.7 |
| Population below 5m (% of total) | 14.8 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 23 | 14 | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 3.2 | 4.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.6 | 0.6 | 0.6 |
| Annual freshwater withdrawals (% of internal resources) | 8.6 | 3.2 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | 0.7 | .. | .. |
| Population living below $1.25 a day (% of total) | 33.5 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 24.1 | 11.7 | 9.5 |
| Under-five mortality rate (per 1,000) | 75 | 121 | 69 |
| Child malnutrition, underweight (% of under age five) | 14.5 | 24.6 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 7,077 | 26,113 | 4,874 |

Resilience

| Access to improved sanitation (% of total pop.) | 51 | 31 | 45 |
| Access to improved water source (% of total pop.) | 69 | 60 | 84 |
| Cereal yield (kg. per hectare) | 1,135 | 1,297 | 2,754 |
| Access to electricity (% of total population) | 42.0 | 32.5 | 67.3 |
| Paved roads (% of total roads) | 29.3 | 18.3 | 29.3 |
| Health workers (per 1,000 people) | 0.5 | 1.2 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 1.8 | 3.6 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 258 | 11,957 | 81,789 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 2.8 | 2.8 | 2.8 |
| Ease of doing business (ranking 1-183; 1 = best) | 154 | 154 | 154 |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 5.6 | 5.6 | 5.6 |
| Primary completion rate, total (% of relevant age group) | 57 | 67 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 95 | 89 | 93 |

GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.4 | 0.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 246.0 | 428.6 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 5.0 | 685 | 3,744 |
| GHG net emissions/removals by LUCF (2000, MtCO₂e) | -10.5 | -10.5 | -10.5 |
| Methane (CH₄) emissions, total (MtCO₂e) | 7.1 | 590 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 4.1 | 334 | 687 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | 0.0 | 0.0 |
| Energy use per capita (kilograms of oil equivalent) | 243 | 689 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 142.2 | 308.4 | 217.9 |

National-Level Actions

| Latest UNFCCC national communication | 9/16/2010 (2nd) | n/a |
| Annex-I emissions reduction target | n/a | n/a |
| NAMA submission | .. | n/a |
| NAPA submission | Yes | n/a |
| Renewable energy target | Yes | n/a |

Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | 1 | n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 | n/a |
| Hosted Joint Implementation (JI) projects | n/a | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | n/a |
Serbia

| Population (millions) | 7.3 | GDP ($ billions) | 39.1 |
|-----------------------|-----|-----------------|------|
| Pop. growth (avg. ann. %, 1990-2010) | -0.2 | GNI per capita (Atlas $) | 5,810 |

**Climate**
- Average daily min/max temperature (1961–90, Celsius)
- Projected annual temperature change (2045–65, Celsius) 2.0 to 3.1
- Average annual precipitation (1961–90, mm)
- Projected annual precipitation change (2045–65, mm) -125 to -15
- Projected change in annual hot days/warm nights 3 / 6
- Projected change in annual cool days/cold nights -1 / -1

**Exposure to Impacts**

| Country data | Europe & Central Asia | Upper middle income |
|---------------|----------------------|---------------------|
| Land area below 5m (% of land area) | 0.2 | 2.5 | 1.8 |
| Population below 5m (% of total) | 0.1 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 15 | 18 | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.0 | 0.3 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 |
| Annual freshwater withdrawals (% of internal resources) | .. | 6.5 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 0.6 | .. | .. |
| Population living below $1.25 a day (% of total) | <2 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 6.0 | 7.5 | 13.6 |
| Under-five mortality rate (per 1,000) | 7 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 1.8 | .. | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | .. | 80 |

**Resilience**
- Access to improved sanitation (% of total pop.) 92 | 89 | 68 |
- Access to improved water source (% of total pop.) 99 | 95 | 92 |
- Cereal yield (kg. per hectare) 4,623 | 2,475 | 3,690 |
- Access to electricity (% of total population) .. | .. | 98.0 |
- Paved roads (% of total roads) 47.7 | 85.8 | 50.5 |
- Health workers (per 1,000 people) 6.5 | 9.9 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) 3.4 | 2.8 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) 107 | 22,652 | 26,166 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) .. |
- Ease of doing business (ranking 1–183; 1 = best) 92 |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) 2.9 |
- Primary completion rate, total (% of relevant age group) 96 | 95 | 98 |
- Ratio of girls to boys in primary & secondary school (%) 101 | 97 | 103 |

**GHG Emissions and Energy Use**
- CO₂ emissions per capita (metric tons) 6.8 | 7.7 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 663.2 | 708.0 | 659.4 |
- CO₂ emissions, total (MtCO₂) 49.9 | 3,110 | 12,860 |
- GHG net emissions/removals by LUCF (1998, MtCO₂e) -8.7 |
- Methane (CH₄) emissions, total (MtCO₂e) 7.8 | 937 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) 4.6 | 214 | 1,144 |
- Other GHG emissions, total (MtCO₂e) 4.5 | 76 | 243 |
- Energy use per capita (kilograms of oil equivalent) 1,974 | 2,833 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 198.1 | 276.8 | 227.1 |

**National-Level Actions**
- Latest UNFCCC national communication 11/29/2010 (1st) |
- Annex-I emissions reduction target n/a |
- NAMA submission n/a |
- NAPA submission n/a |
- Renewable energy target n/a |

**Carbon Markets**
- Hosted Clean Development Mechanism (CDM) projects 0 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) 0 |
- Hosted Joint Implementation (JI) projects n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) n/a |
The Little Data Book on Climate Change 2011

Seychelles

Population (thousands) 86.5  GDP ($ millions) 936.6
Pop. growth (avg. ann. %, 1990-2010) 1.1  GNI per capita (Atlas $) 9,760

Climate
Average daily min/max temperature (1961-90, Celsius) 25 / 30
Projected annual temperature change (2045-65, Celsius) 1.5 to 1.8
Average annual precipitation (1961-90, mm) 1,970
Projected annual precipitation change (2045-65, mm) -75 to 226
Projected change in annual hot days/warm nights 18 / 25
Projected change in annual cool days/cold nights -3 / -3

Exposure to Impacts

|                                | Country data | Sub-Saharan Africa | Upper middle income |
|--------------------------------|--------------|--------------------|---------------------|
| Land area below 5m (% of land area) | 43.9         | 0.4                | 1.8                 |
| Population below 5m (% of total)   | 41.3         | 2.0                | 6.5                 |
| Population in urban agglomerations > 1 million (%) | ..          | 14                 | 22                  |
| Urban pop. growth (avg. annual %, 1990-2010) | 1.6         | 4.0                | 2.3                 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.1         |                    |                     |
| Annual freshwater withdrawals (% of internal resources) | ..          | 3.2                | 5.6                 |
| Agricultural land under irrigation (% of total ag. land) | ..          |                    |                     |
| Population living below $1.25 a day (% of total) | <2          | 50.9               | ..                  |
| Nationally terrestrial protected areas (% of total land area) | 42.0        | 11.7               | 13.6                |
| Under-five mortality rate (per 1,000) | 14          | 121                | 20                  |
| Child malnutrition, underweight (% of under age five) | ..          | 24.6               | 4.1                 |
| Malaria incidence rate (per 100,000 people) | ..          | 26,113             | 80                  |

Resilience
Access to improved sanitation (% of total pop.) .. 31 68
Access to improved water source (% of total pop.) .. 60 92
Cereal yield (kg. per hectare) .. 1,297 3,690
Access to electricity (% of total population) .. 32.5 98.0
Paved roads (% of total roads) 96.5 18.3 50.5
Health workers (per 1,000 people) 9.4 1.2 4.5
Foreign direct investment, net inflows (% of GDP) 39.4 3.6 2.7
Invest. in infrastructure w/private participation ($ millions) 15 11,957 26,166
Disaster risk reduction progress score (1–5 scale; 5 = best) ..
Ease of doing business (ranking 1–183; 1 = best) 103
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) ..
Primary completion rate, total (% of relevant age group) 105 67 98
Ratio of girls to boys in primary & secondary school (%) 103 89 103

GHG Emissions and Energy Use

|                                | Country data | Sub-Saharan Africa | Upper middle income |
|--------------------------------|--------------|--------------------|---------------------|
| CO₂ emissions per capita (metric tons) | 7.8          | 0.8                | 5.3                 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 404.4        | 428.6              | 659.4               |
| CO₂ emissions, total (MtCO₂) | 0.7         | 685                | 12,860              |
| GHG net emissions/removals by LUCF (1995, MtCO₂) | -0.8        |                    |                     |
| Methane (CH₄) emissions, total (MtCO₂) | ..          | 590                | 3,455               |
| Nitrous oxide (N₂O) emissions, total (MtCO₂) | ..          | 334                | 1,144               |
| Other GHG emissions, total (MtCO₂) | ..          |                    | 243                 |
| Energy use per capita (kilograms of oil equivalent) | 2,411        | 689                | 1,848               |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 120.0        | 308.4              | 227.1               |

National-Level Actions

|                                |                |
|--------------------------------|----------------|
| Latest UNFCCC national communication | 11/15/2020 (1st) |
| Annex-I emissions reduction target | n/a            |
| NAMA submission                  | n/a            |
| NAPA submission                  | n/a            |
| Renewable energy target          | n/a            |

Carbon Markets

|                                |                |
|--------------------------------|----------------|
| Hosted Clean Development Mechanism (CDM) projects | ..            |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | ..            |
| Hosted Joint Implementation (JI) projects | n/a            |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a            |
Sierra Leone

Population (millions) 5.9 GDP ($ billions) 1.9
Pop. growth (avg. ann. %, 1990–2010) 1.9 GNI per capita (Atlas $) 340

Climate
Average daily min/max temperature (1961–90, Celsius) 21 / 31
Projected annual temperature change (2045–65, Celsius) 1.8 to 2.3
Average annual precipitation (1961–90, mm) 2,526
Projected annual precipitation change (2045–65, mm) -96 to 128
Projected change in annual hot days/warm nights 9 / 24
Projected change in annual cool days/cold nights -3 / -3

Exposure to Impacts
| Country data | Sub-Saharan Africa | Low income |
|--------------|-------------------|-----------|
| Land area below 5m (% of land area) | 3.0 | 0.4 | 0.7 |
| Population below 5m (% of total) | 5.1 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | .. | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.7 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.2 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 0.3 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 53.4 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 5.0 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 174 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 21.3 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 36,141 | 26,113 | 16,859 |

Resilience
Access to improved sanitation (% of total pop.) 13 31 35
Access to improved water source (% of total pop.) 49 60 63
Cereal yield (kg. per hectare) 1,402 1,297 2,047
Access to electricity (% of total population) .. 32.5 23.0
Paved roads (% of total roads) 8.0 18.3 14.1
Health workers (per 1,000 people) 0.2 1.2 0.7
Foreign direct investment, net inflows (% of GDP) 4.5 3.6 3.2
Invest. in infrastructure w/private participation ($ millions) 168 11,957 4,471
Disaster risk reduction progress score (1–5 scale; 5 = best) 3.0
Ease of doing business (ranking 1–183; 1 = best) 141
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) 3.0
Primary completion rate, total (% of relevant age group) .. 67 65
Ratio of girls to boys in primary & secondary school (%) 68 89 91

GHG Emissions and Energy Use
| Country data | Sub-Saharan Africa | Low income |
|--------------|-------------------|-----------|
| CO₂ emissions per capita (metric tons) | 0.2 | 0.8 | 0.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 332.2 | 428.6 | 270.2 |
| CO₂ emissions, total (MtCO₂) | 1.3 | 685 | 219 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | 590 | 436 |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 334 | 209 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | .. | .. |
| Other GHG emissions, total (MtCO₂e) | .. | 308.4 | 303.9 |
| Energy use per capita (kilograms of oil equivalent) | .. | 689 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | .. | .. |

National-Level Actions
Latest UNFCCC national communication 1/8/2007 (1st)
Annex-I emissions reduction target n/a
NAMA submission Yes
NAPA submission Yes
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 0
Issued Certified Emission Reductions (CERs) from CDM (thousands) 0
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
## Singapore

| Population (millions) | 5.1 | GDP ($ billions) | 222.7 |
|-----------------------|-----|------------------|-------|
| Pop. growth (avg. ann. %, 1990–2010) | 2.6 | GNI per capita (Atlas $) | 41,430 |

### Climate

- Average daily min/max temperature (1961–90, Celsius): 23 / 30
- Projected annual temperature change (2045–65, Celsius): 1.5 to 1.8
- Average annual precipitation (1961–90, mm): 2,497
- Projected annual precipitation change (2045–65, mm): -134 to 49
- Projected change in annual hot days/warm nights: 12 / 26
- Projected change in annual cool days/cold nights: -3 / -3

### Exposure to Impacts

- Land area below 5m (% of land area): 8.1
- Population below 5m (% of total): 12.1
- Population in urban agglomerations > 1 million (%): 95
- Urban pop. growth (avg. annual %, 1990–2010): 2.6
- Droughts, floods, extreme temps (% pop. avg., 1990–2009): ..
- Annual freshwater withdrawals (% of internal resources): ..
- Agricultural land under irrigation (% of total ag. land): ..
- Population living below $1.25 a day (% of total): 5.4
- Under-five mortality rate (per 1,000): 3
- Child malnutrition, underweight (% of under age five): ..
- Malaria incidence rate (per 100,000 people): ..

### Resilience

- Access to improved sanitation (% of total pop.): Access to improved water source (% of total pop.): Access to improved sanitation (% of total pop.) to 100
- Access to improved water source (% of total pop.): 100
- Cereal yield (kg. per hectare): 5,445
- Access to electricity (% of total population): 100
- Paved roads (% of total roads): 87.3
- Health workers (per 1,000 people): 100
- Foreign direct investment, net inflows (% of GDP): 1.8
- Invest. in infrastructure w/private participation ($ millions): ..
- Disaster risk reduction progress score (1–5 scale; 5 = best): ..
- Ease of doing business (ranking 1–183; 1 = best): 97
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best): ..
- Primary completion rate, total (% of relevant age group): 100
- Ratio of girls to boys in primary & secondary school (%): 97

### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons): 6.7
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $): 139.0
- CO₂ emissions, total (MtCO₂): 32.3
- GHG net emissions/removals by LUCF (MtCO₂e): ..
- Methane (CH₄) emissions, total (MtCO₂e): 2.2
- Nitrous oxide (N₂O) emissions, total (MtCO₂e): 1.1
- Other GHG emissions, total (MtCO₂e): 2.5
- Energy use per capita (kilograms of oil equivalent): 3,704
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $): 80.2

### National-Level Actions

- Latest UNFCCC national communication: 11/12/2010 (2nd)
- Annex-I emissions reduction target: n/a
- NAMA submission: Yes, with Goal
- NAPA submission: n/a
- Renewable energy target: ..

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: 2
- Issued Certified Emission Reductions (CERs) from CDM (thousands): 0
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
## Sint Maarten (Dutch part)

| Population (thousands) | 37.9 | GDP ($ millions) | .. |
|------------------------|------|-----------------|----|
| Pop. growth (avg. ann. %, 1990-2010) | 1.6 | GNI per capita (Atlas $) | .. |

### Climate
- Average daily min/max temperature (1961-90, Celsius) ..
- Projected annual temperature change (2045-65, Celsius) ..
- Average annual precipitation (1961-90, mm) ..
- Projected annual precipitation change (2045-65, mm) ..
- Projected change in annual hot days/warm nights ..
- Projected change in annual cool days/cold nights ..

### Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | .. | 2.2 |
| Population below 5m (% of total) | .. | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | .. | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | .. | 13.4 |
| Under-five mortality rate (per 1,000) | .. | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

### Resilience
- Access to improved sanitation (% of total pop.) .. | 100 |
- Access to improved water source (% of total pop.) .. | 100 |
- Cereal yield (kg. per hectare) .. | 5,445 |
- Access to electricity (% of total population) .. | .. |
- Paved roads (% of total roads) .. | 87.3 |
- Health workers (per 1,000 people) .. | 10.7 |
- Foreign direct investment, net inflows (% of GDP) .. | 1.8 |
- Invest. in infrastructure w/private participation ($ millions) .. | .. |
- Disaster risk reduction progress score (1-5 scale; 5 = best) .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) .. | .. |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) .. | .. |
- Primary completion rate, total (% of relevant age group) .. | 97 |
- Ratio of girls to boys in primary & secondary school (%) .. | 100 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | .. | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 354.4 |
| CO₂ emissions, total (MtCO₂) | .. | 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂) | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂) | .. | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂) | .. | 813 |
| Other GHG emissions, total (MtCO₂) | .. | 460 |
| Energy use per capita (kilograms of oil equivalent) | .. | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 147.0 |

### National-Level Actions
- Latest UNFCCC national communication n/a
- Annex-I emissions reduction target n/a
- NAMA submission n/a
- NAPA submission n/a
- Renewable energy target ..

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a
- Hosted Joint Implementation (JI) projects n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Slovak Republic

| Country data | High income |
|--------------|-------------|
| Population (millions) | 5.4 | 5.4 |
| GDP ($ billions) | 89.0 | 16,210 |
| Pop. growth (avg. ann. %, 1990–2010) | 0.1 | 0.1 |

#### Climate

| Parameter                                                                 | Value          |
|---------------------------------------------------------------------------|----------------|
| Average daily min/max temperature (1961–90, Celsius)                       | 2 / 12         |
| Projected annual temperature change (2045–65, Celsius)                     | 2.0 to 2.9     |
| Average annual precipitation (1961–90, mm)                                | 824            |
| Projected annual precipitation change (2045–65, mm)                        | -44 to 45      |
| Projected change in annual hot days/warm nights                            | 3 / 5          |
| Projected change in annual cool days/cold nights                           | -1 / -2        |

#### Exposure to Impacts

| Parameter                                                                 | Value          |
|---------------------------------------------------------------------------|----------------|
| Land area below 5m (% of land area)                                       | 0.0            |
| Population below 5m (% of total)                                          | 0.0            |
| Population in urban agglomerations > 1 million (%)                        | ..             |
| Urban pop. growth (avg. ann. %, 1990–2010)                               | 0.2            |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009)                  | 0.0            |
| Annual freshwater withdrawals (% of internal resources)                   | ..             |
| Agricultural land under irrigation (% of total ag. land)                  | 1.0            |
| Population living below $1.25 a day (% of total)                          | <2             |
| Nationally terrestrial protected areas (% of total land area)             | 23.5           |
| Under-five mortality rate (per 1,000)                                     | 8              |
| Child malnutrition, underweight (% of under age five)                     | ..             |
| Malaria incidence rate (per 100,000 people)                              | ..             |

#### Resilience

| Parameter                                                                 | Value          |
|---------------------------------------------------------------------------|----------------|
| Access to improved sanitation (% of total pop.)                           | 100            |
| Access to improved water source (% of total pop.)                         | 100            |
| Cereal yield (kg, per hectare)                                            | 4,327          |
| Access to electricity (% of total population)                             | 87.0           |
| Paved roads (% of total roads)                                            | 87.3           |
| Health workers (per 1,000 people)                                        | 6.6            |
| Foreign direct investment, net inflows (% of GDP)                         | 0.6            |
| Invest. in infrastructure w/private participation ($ millions)            | ..             |
| Disaster risk reduction progress score (1–5 scale; 5 = best)              | ..             |
| Ease of doing business (ranking 1–183; 1 = best)                         | 48             |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best)              | ..             |
| Primary completion rate, total (% of relevant age group)                 | 97             |
| Ratio of girls to boys in primary & secondary school (%)                 | 101            |

#### GHG Emissions and Energy Use

| Parameter                                                                 | Value          |
|---------------------------------------------------------------------------|----------------|
| CO₂ emissions per capita (metric tons)                                    | 6.9            |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)                   | 338.6          |
| CO₂ emissions, total (MtCO₂)                                              | 37.6           |
| GHG net emissions/removals by LUCF (2009, MtCO₂e)                         | -3.4           |
| Methane (CH₄) emissions, total (MtCO₂e)                                   | 3.9            |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e)                            | 3.4            |
| Other GHG emissions, total (MtCO₂e)                                       | 0.4            |
| Energy use per capita (kilograms of oil equivalent)                       | 3,178          |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)             | 165.1          |

#### National-Level Actions

| Parameter                                                                 | Value          |
|---------------------------------------------------------------------------|----------------|
| Latest UNFCCC national communication                                      | 2/15/2010 (5th) |
| Annex-I emissions reduction target (base year: 1990)                      | 20% / 30% (EU)  |
| NAMA submission                                                           | n/a            |
| NAPA submission                                                           | n/a            |
| Renewable energy target                                                   | Yes            |

#### Carbon Markets

| Parameter                                                                 | Value          |
|---------------------------------------------------------------------------|----------------|
| Hosted Clean Development Mechanism (CDM) projects                         | n/a            |
| Issued Certified Emission Reductions (CERs) from CDM (thousands)          | n/a            |
| Hosted Joint Implementation (JI) projects                                 | 0              |
| Issued Emission Reduction Units (ERUs) from JI (thousands)                | 0              |
Slovenia

Population (millions) 2.1  GDP ($ billions) 47.8
Pop. growth (avg. ann. %, 1990–2010) 0.1  GNI per capita (Atlas $) 24,000

Climate
Average daily min/max temperature (1961–90, Celsius) 4 / 14
Projected annual temperature change (2045–65, Celsius) 2.0 to 3.0
Average annual precipitation (1961–90, mm) 1,161
Projected annual precipitation change (2045–65, mm) -93 to 5
Projected change in annual hot days/warm nights 3 / 6
Projected change in annual cool days/cold nights -1 / -1

Exposure to Impacts
Land area below 5m (% of land area) 0.2  2.2
Population below 5m (% of total) 1.3  7.7
Population in urban agglomerations > 1 million (%) .. ..
Urban pop. growth (avg. annual %, 1990–2010) -0.1  1.0
Droughts, floods, extreme temps (% pop. avg., 1990–2009) 0.0 ..
Annual freshwater withdrawals (% of internal resources) .. 10.4
Agricultural land under irrigation (% of total ag. land) 0.9 ..
Population living below $1.25 a day (% of total) <2 ..
Nationally terrestrial protected areas (% of total land area) 12.1 13.4
Under-five mortality rate (per 1,000) 3 6
Child malnutrition, underweight (% of under age five) .. ..
Malaria incidence rate (per 100,000 people) .. ..

Resilience
Access to improved sanitation (% of total pop.) 100 100
Access to improved water source (% of total pop.) 99 100
Cereal yield (kg. per hectare) 5,257 5,445
Access to electricity (% of total population) .. ..
Paved roads (% of total roads) 100.0 87.3
Health workers (per 1,000 people) 10.6 10.7
Foreign direct investment, net inflows (% of GDP) 0.8 1.8
Invest. in infrastructure w/private participation ($ millions) .. ..
Disaster risk reduction progress score (1–5 scale; 5 = best) ..
Ease of doing business (ranking 1–183; 1 = best) 37 ..
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) ..
Primary completion rate, total (% of relevant age group) 96 97
Ratio of girls to boys in primary & secondary school (%) 99 100

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 8.5 11.9
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 312.1 354.4
CO₂ emissions, total (MtCO₂) 17.2 13,285
GHG net emissions/removals by LUCF (2009, MtCO₂e) -8.5 ..
Methane (CH₄) emissions, total (MtCO₂e) 3.5 1,539
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 1.2 813
Other GHG emissions, total (MtCO₂e) 0.5 460
Energy use per capita (kilograms of oil equivalent) 3,455 4,944
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 138.3 147.0

National-Level Actions
Latest UNFCCC national communication 4/6/2010 (5th)
Annex-I emissions reduction target (base year: 1990) 20% / 30% (EU)
NAMA submission n/a
NAPA submission n/a
Renewable energy target Yes

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects n/a
Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a
Hosted Joint Implementation (JI) projects ..
Issued Emission Reduction Units (ERUs) from JI (thousands) ..
### Solomon Islands

| Population (thousands) | GDP ($ millions) | GNI per capita (Atlas $) |
|------------------------|------------------|--------------------------|
| 538.1                  | 678.6            | 1,030                    |

#### Climate
- Average daily min/max temperature (1961-90, Celsius): 22 / 30
- Projected annual temperature change (2045-65, Celsius): 1.4 to 1.7
- Average annual precipitation (1961-90, mm): 3,028
- Projected annual precipitation change (2045-65, mm): -107 to 314
- Projected change in annual hot days/warm nights: 22 / 27
- Projected change in annual cool days/cold nights: -3 / -3

#### Exposure to Impacts

| Country data | East Asia & Pacific | Lower middle income |
|--------------|---------------------|---------------------|
| Land area below 5m (% of land area) | 11.5 | 2.5 | 1.7 |
| Population below 5m (% of total) | 13.4 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | .. | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 4.3 | 3.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.1 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.8 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.1 | 14.9 | 9.5 |
| Under-five mortality rate (per 1,000) | 27 | 24 | 69 |
| Child malnutrition, underweight (% of under age five) | 11.5 | 9.0 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 13,718 | 525 | 4,874 |

#### Resilience
- Access to improved sanitation (% of total pop.) | 29 | 59 | 45 |
- Access to improved water source (% of total pop.) | 69 | 88 | 84 |
- Cereal yield (kg. per hectare) | 3,265 | 4,860 | 2,754 |
- Access to electricity (% of total population) | .. | 90.8 | 67.3 |
- Paved roads (% of total roads) | 2.4 | 15.9 | 29.3 |
- Health workers (per 1,000 people) | 1.6 | 2.8 | 2.6 |
- Foreign direct investment, net inflows (% of GDP) | 35.0 | 3.0 | 2.4 |
- Invest. in infrastructure w/private participation ($ millions) | 5 | 14,638 | 81,789 |
- Disaster risk reduction progress score (1-5 scale; 5 = best) | 2.0 | .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) | 74 | .. | .. |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 2.7 | .. | .. |
- Primary completion rate, total (% of relevant age group) | .. | 97 | 88 |
- Ratio of girls to boys in primary & secondary school (%) | 94 | 103 | 93 |

#### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 0.4 | 4.3 | 1.6 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 160.1 | 827.1 | 523.9 |
- CO₂ emissions, total (MtCO₂) | 0.2 | 8,259 | 3,744 |
- GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. | .. |
- Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,928 | 1,705 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 707 | 687 |
- Other GHG emissions, total (MtCO₂e) | .. | .. | 17 |
- Energy use per capita (kilograms of oil equivalent) | 129 | 1,436 | 680 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 55.5 | 259.5 | 217.9 |

#### National-Level Actions
- Latest UNFCCC national communication | 9/29/2004 (1st) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | .. |
- NAPA submission | Yes |
- Renewable energy target | .. |

#### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | .. |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### Somalia

#### Exposure to Impacts

| Country data | Sub-Saharan Africa | Low income |
|--------------|-------------------|------------|
| Population below 5m (% of land area) | 0.6 | 0.4 | 0.7 |
| Population below 5m (% of total) | 2.2 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | 16 | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 4.6 |
| Annual freshwater withdrawals (% of internal resources) | 55.0 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.6 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 180 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 32.8 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 8,711 | 26,113 | 16,659 |

#### Resilience

| | | |
|---|---|---|
| Access to improved sanitation (% of total pop.) | 23 | 31 | 35 |
| Access to improved water source (% of total pop.) | 30 | 60 | 63 |
| Cereal yield (kg, per hectare) | 371 | 1,297 | 2,047 |
| Access to electricity (% of total population) | .. | 32.5 | 23.0 |
| Paved roads (% of total roads) | 11.8 | 18.3 | 14.1 |
| Health workers (per 1,000 people) | 0.1 | 1.2 | 0.7 |
| Foreign direct investment, net inflows (% of GDP) | .. | 3.6 | 3.2 |
| Invest. in infrastructure w/private participation ($ millions) | 1 | 11,957 | 4,471 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. |
| Ease of doing business (ranking 1–183; 1 = best) | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. |
| Primary completion rate, total (% of relevant age group) | .. | 67 | 65 |
| Ratio of girls to boys in primary & secondary school (%) | 53 | 89 | 91 |

#### GHG Emissions and Energy Use

| | \(\text{CO}_2\) emissions per capita (metric tons) | 0.1 | 0.8 | 0.3 |
|---|---|---|---|---|---|
| \(\text{CO}_2\) emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 428.6 | 270.2 |
| \(\text{CO}_2\) emissions, total (Mt\(\text{CO}_2\)) | 0.6 | 685 | 219 |
| GHG net emissions/removals by LUCF (Mt\(\text{CO}_2\)) | .. |
| Methane (\(\text{CH}_4\)) emissions, total (Mt\(\text{CO}_2\)) | .. | 590 | 436 |
| Nitrous oxide (\(\text{N}_2\text{O}\)) emissions, total (Mt\(\text{CO}_2\)) | .. | 334 | 209 |
| Other GHG emissions, total (Mt\(\text{CO}_2\)) | .. | .. | .. |
| Energy use per capita (kilograms of oil equivalent) | .. | 689 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 308.4 | 303.9 |

#### National-Level Actions

| | | |
|---|---|---|
| Latest UNFCCC national communication | .. |
| Annex-I emissions reduction target | n/a |
| NAMA submission | .. |
| NAPA submission | .. |
| Renewable energy target | .. |

#### Carbon Markets

| | | |
|---|---|---|
| Hosted Clean Development Mechanism (CDM) projects | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. |
| Hosted Joint Implementation (JI) projects | .. | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
South Africa

Population (millions) 50.0 GDP ($ billions) 363.7
Pop. growth (avg. ann. %, 1990–2010) 1.8 GNI per capita (Atlas $) 6,090

Climate
Average daily min/max temperature (1961–90, Celsius) 11 / 25
Projected annual temperature change (2045–65, Celsius) 1.9 to 2.7
Average annual precipitation (1961–90, mm) 495
Projected annual precipitation change (2045–65, mm) -78 to 33
Projected change in annual hot days/warm nights 4 / 10
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts

| Country data | Sub-Saharan Africa | Upper middle income |
|--------------|-------------------|---------------------|
| Land area below 5m (% of land area) | 0.1 | 0.4 | 1.8 |
| Population below 5m (% of total) | 0.5 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 34 | 14 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.6 | 4.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 1.8 | | |
| Annual freshwater withdrawals (% of internal resources) | 27.9 | 3.2 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | | | |
| Population living below $1.25 a day (% of total) | 17.4 | 50.9 | |
| Nationally terrestrial protected areas (% of total land area) | 6.9 | 17.1 | 13.6 |
| Under-five mortality rate (per 1,000) | 57 | 121 | 20 |
| Child malnutrition, underweight (% of under age five) | | 24.6 | 4.1 |
| Malan incidence rate (per 100,000 people) | 80 | 26,113 | 80 |

Resilience
Access to improved sanitation (% of total pop.) 77 31 68
Access to improved water source (% of total pop.) 91 60 92
Cereal yield (kg, per hectare) 4,414 1,297 3,690
Access to electricity (% of total population) 75.0 32.5 98.0
Paved roads (% of total roads) 17.3 18.3 50.5
Health workers (per 1,000 people) 4.9 1.2 4.5
Foreign direct investment, net inflows (% of GDP) 0.4 3.6 2.7
Invest in infrastructure w/private participation ($ millions) 2,107 11,957 26,166
Disaster risk reduction progress score (1–5 scale; 5 = best) .. .. |
Ease of doing business (ranking 1–183; 1 = best) 35 |
Public sector mgt & institutions avg. (1–6 scale; 6 = best) .. 35 |
Primary completion rate, total (% of relevant age group) 93 67 98
Ratio of girls to boys in primary & secondary school (%) 99 89 103

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 8.9 0.8 5.3
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 930.3 428.6 659.4
CO₂ emissions, total (MtCO₂) 435.9 685 12,860
GHG net emissions/removals by LUCF (1994, MtCO₂e) -18.6 |
Methane (CH₄) emissions, total (MtCO₂e) 63.8 590 3,455
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 24.0 334 1,144
Other GHG emissions, total (MtCO₂e) 2.6 |
Energy use per capita (kilograms of oil equivalent) 2,921 689 1,848
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 312.7 308.4 227.1

National-Level Actions
Latest UNFCCC national communication 12/11/2003 (1st)
Annex-I emissions reduction target n/a
NAMA submission Yes, with Goal
NAPA submission n/a
Renewable energy target Yes

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 20
Issued Certified Emission Reductions (CERs) from CDM (thousands) 1,900
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
Spain

Population (millions) 46.1 GDP ($ billions) 1,407.4
Pop. growth (avg. ann. %, 1990-2010) 0.9 GNI per capita (Atlas $) 31,750

Climate
Average daily min/max temperature (1961-90, Celsius) 8 / 19
Projected annual temperature change (2045-65, Celsius) 1.5 to 2.6
Average annual precipitation (1961-90, mm) 636
Projected annual precipitation change (2045-65, mm) -112 to -18
Projected change in annual hot days/warm nights 4 / 8
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 1.3 | 2.2 |
| Population below 5m (% of total) | 6.6 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 24 | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 1.0 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.7 | .. |
| Annual freshwater withdrawals (% of internal resources) | 33.4 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 11.9 | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 8.6 | 13.4 |
| Under-five mortality rate (per 1,000) | 5 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malnourishment rate (per 100,000 people) | .. | .. |

Resilience
Access to improved sanitation (% of total pop.) 100 100
Access to improved water source (% of total pop.) 100 100
Cereal yield (kg, per hectare) 2,940 5,445
Access to electricity (% of total population) .. ..
Paved roads (% of total roads) 99.0 87.3
Health workers (per 1,000 people) 8.9 10.7
Foreign direct investment, net inflows (% of GDP) 1.8 1.8
Invest. in infrastructure w/private participation ($ millions) .. ..
Disaster risk reduction progress score (1-5 scale; 5 = best) .. ..
Ease of doing business (ranking 1-183; 1 = best) 44 ..
Public sector mgmt & institutions avg. (1-6 scale; 6 = best) .. ..
Primary completion rate, total (% of relevant age group) 103 97
Ratio of girls to boys in primary & secondary school (%) 102 100

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 7.2 11.9
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 255.1 354.4
CO₂ emissions, total (MtCO₂) 329.3 13,285
GHG net emissions/removals by LUCF (2009, MtCO₂e) -28.6 ..
Methane (CH₄) emissions, total (MtCO₂e) 36.3 1,539
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 26.5 813
Other GHG emissions, total (MtCO₂e) 9.1 460
Energy use per capita (kilograms of oil equivalent) 2,781 4,944
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 103.2 147.0

National-Level Actions
Latest UNFCCC national communication 12/18/2009 (5th)
Annex-I emissions reduction target (base year: 1990) 20% / 30% (EU)
NAMA submission n/a
NAPA submission n/a
Renewable energy target Yes

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects n/a
Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a
Hosted Joint Implementation (JI) projects 3
Issued Emission Reduction Units (ERUs) from JI (thousands) 0

2011 The Little Data Book on Climate Change
Sri Lanka

Population (millions) 20.9  GDP ($ billions) 49.6
Pop. growth (avg. ann. %, 1990-2010) 0.9  GNI per capita (Atlas $) 2,240

Climate
Average daily min/max temperature (1961-90, Celsius) 23 / 31
Projected annual temperature change (2045-65, Celsius) 1.5 to 1.8
Average annual precipitation (1961-90, mm) 1,712
Projected annual precipitation change (2045-65, mm) 11 to 196
Projected change in annual hot days/warm nights 8 / 24
Projected change in annual cool days/cold nights -3 / -3

| Exposure to Impacts                                      | Country data | South Asia | Lower middle income |
|---------------------------------------------------------|--------------|------------|---------------------|
| Land area below 5m (% of land area)                     | 3.9          | 1.5        | 1.7                 |
| Population below 5m (% of total)                        | 5.4          | 4.4        | 6.5                 |
| Population in urban agglomerations > 1 million (%)      | ..           | 13         | 14                  |
| Urban pop. growth (avg. annual %, 1990-2010)            | 0.3          | 2.7        | 2.8                 |
| Droughts, floods, extreme temps (% pop. avg. 1990-2009) | 2.2          |            |                     |
| Annual freshwater withdrawals (% of internal resources) | 24.5         | 50.6       | 18.7                |
| Agricultural land under irrigation (% of total ag, land) | ..           | ..         | ..                  |
| Population living below $1.25 a day (% of total)        | 7.0          | 40.3       | ..                  |
| Nationally terrestrial protected areas (% of total land area) | 20.8        | 6.1        | 9.5                 |
| Under-five mortality rate (per 1,000)                    | 17           | 67         | 69                  |
| Child malnutrition, underweight (% of under age five)   | 21.6         | 42.5       | 31.7                |
| Malaria incidence rate (per 100,000 people)             | 21           | 1,127      | 4,874               |

Resilience
Access to improved sanitation (% of total pop.) 91 36 45
Access to improved water source (% of total pop.) 90 87 84
Cereal yield (kg. per hectare) 3,664 2,728 2,754
Access to electricity (% of total population) 76.6 62.1 67.3
Paved roads (% of total roads) 81.0 58.9 29.3
Health workers (per 1,000 people) 1.9 1.7 2.6
Foreign direct investment, net inflows (% of GDP) 1.0 1.3 2.4
Invest. in infrastructure w/private participation ($ millions) 72 73,548 81,789
Disaster risk reduction progress score (1-5 scale; 5 = best) 3.5
Ease of doing business (ranking 1-183; 1 = best) 89
Public sector mgmt & institutions avg. (1-6 scale; 6 = best) 3.4
Primary completion rate, total (% of relevant age group) 97 86 88
Ratio of girls to boys in primary & secondary school (%) 104 92 93

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 0.6 1.3 1.6
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 138.5 504.6 523.9
CO₂ emissions, total (MtCO₂) 11.8 1,970 3,744
GHG net emissions/removals by LUCF (1995, MtCO₂e) 379.1
Methane (CH₄) emissions, total (MtCO₂e) 10.2 846 1,705
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 2.1 268 687
Other GHG emissions, total (MtCO₂e) 0.0 9 17
Energy use per capita (kilograms of oil equivalent) 449 532 680
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 105.5 193.5 217.9

National-Level Actions
Latest UNFCCC national communication 11/6/2000 (1st)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission n/a
Renewable energy target Yes

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 7
Issued Certified Emission Reductions (CERs) from CDM (thousands) 238
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Population (thousands) 52.4  GDP ($ millions) 526.0  GNI per capita (Atlas $) 9,520

### Climate
- Average daily min/max temperature (1961-90, Celsius): 21 / 28
- Projected annual temperature change (2045-65, Celsius): 1.3 to 1.8
- Average annual precipitation (1961-90, mm): 2,133
- Projected annual precipitation change (2045-65, mm): -102 to 32
- Projected change in annual hot days/warm nights: 12 / 23
- Projected change in annual cool days/cold nights: -3 / -3

### Exposure to Impacts

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|-----------------------------|---------------------|
| Land area below 5m (% of land area) | 19.0 | 1.5 | 1.8 |
| Population below 5m (% of total) | 22.1 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 35 | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.8 | 2.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 0.0 | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 3.6 | 20.8 | 13.6 |
| Under-five mortality rate (per 1,000) | 8 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | .. | 3.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | 206 | 80 |

### Resilience
- Access to improved sanitation (% of total pop.) 96 79 68
- Access to improved water source (% of total pop.) 99 93 92
- Cereal yield (kg, per hectare) .. 3,337 3,690
- Access to electricity (% of total population) .. 93.4 98.0
- Paved roads (% of total roads) .. 28.1 50.5
- Health workers (per 1,000 people) 5.8 6.9 4.5
- Foreign direct investment, net inflows (% of GDP) 24.3 2.3 2.7
- Invest. in infrastructure w/private participation ($ millions) 13 33,064 26,166
- Disaster risk reduction progress score (1-5 scale; 5 = best) 3.5
- Ease of doing business (ranking 1-183; 1 = best) 95
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) .. .. ..
- Primary completion rate, total (% of relevant age group) 96 102 98
- Ratio of girls to boys in primary & secondary school (%) 104 102 103

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) 4.9 2.8 5.3
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 350.5 285.6 659.4
- CO₂ emissions, total (MtCO₂) 0.2 1,584 12,860
- GHG net emissions/removals by LUCF (1994, MtCO₂e) -0.1
- Methane (CH₄) emissions, total (MtCO₂e) .. 1,009 3,455
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) .. 442 1,144
- Other GHG emissions, total (MtCO₂e) .. 21 243
- Energy use per capita (kilograms of oil equivalent) 1,645 1,245 1,848
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 122.1 130.6 227.1

### National-Level Actions
- Latest UNFCCC national communication 11/30/2001 (1st)
- Annex-I emissions reduction target n/a
- NAMA submission ..
- NAPA submission n/a
- Renewable energy target ..

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects ..
- Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
- Hosted Joint Implementation (JI) projects n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
| Country                    | Latin America & the Carib. | Upper middle income |
|---------------------------|-----------------------------|---------------------|
| St. Lucia                 | 22 / 29                     | -159 to 14          |

### Climate

- Average daily min/max temperature (1961-90, Celsius): 22 / 29
- Projected annual temperature change (2045-65, Celsius): 1.4 to 1.7
- Average annual precipitation (1961-90, mm): 2,301
- Projected annual precipitation change (2045-65, mm): -159 to 14
- Projected change in annual hot days/warm nights: 14 / 24
- Projected change in annual cool days/cold nights: -3 / -3

### Exposure to Impacts

| Metric                                                                 | Value |
|------------------------------------------------------------------------|-------|
| Land area below 5m (% of land area)                                    | 8.0   |
| Population below 5m (% of total)                                       | 8.0   |
| Population in urban agglomerations > 1 million (%)                     | ..    |
| Urban pop. growth (avg. annual %, 1990-2010)                           | 1.1   |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009)               | ..    |
| Annual freshwater withdrawals (% of internal resources)                | 2.0   |
| Agricultural land under irrigation (% of total ag. land)               | ..    |
| Population living below $1.25 a day (% of total)                      | 20.9  |
| Nationally terrestrial protected areas (% of total land area)          | 14.3  |
| Under-five mortality rate (per 1,000)                                  | 16    |
| Child malnutrition, underweight (% of under age five)                  | ..    |
| Malaria incidence rate (per 100,000 people)                           | ..    |
| Cereal yield (kg, per hectare)                                         | ..    |
| Access to electricity (% of total population)                           | ..    |
| Paved roads (% of total roads)                                         | ..    |
| Health workers (per 1,000 people)                                     | 2.6   |
| Foreign direct investment, net inflows (% of GDP)                      | 13.0  |
| Invest. in infrastructure w/private participation ($ millions)         | 11    |
| Disaster risk reduction progress score (1-5 scale; 5 = best)           | 3.3   |
| Ease of doing business (ranking 1-183; 1 = best)                      | 52    |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best)           | 4.0   |
| Primary completion rate, total (% of relevant age group)               | 96    |
| Ratio of girls to boys in primary & secondary school (%)               | 99    |

### Resilience

- Access to improved sanitation (% of total pop.)                        | 89    |
- Access to improved water source (% of total pop.)                     | 98    |
- Cereal yield (kg, per hectare)                                        | 3,337 |
- Access to electricity (% of total population)                          | 93.4  |
- Paved roads (% of total roads)                                         | 28.1  |
- Health workers (per 1,000 people)                                     | 2.6   |
- Foreign direct investment, net inflows (% of GDP)                     | 13.0  |
- Invest. in infrastructure w/private participation ($ millions)         | 11    |
- Primary completion rate, total (% of relevant age group)              | 96    |
- Ratio of girls to boys in primary & secondary school (%)              | 99    |

### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons)                                 | 2.3   |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)               | 253.7 |
- CO₂ emissions, total (MtCO₂)                                           | 0.4   |
- GHG net emissions/removals by LUCF (1994, MtCO₂e)                      | -0.3  |
- Methane (CH₄) emissions, total (MtCO₂e)                                | ..    |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e)                         | ..    |
- Other GHG emissions, total (MtCO₂e)                                   | ..    |
- Energy use per capita (kilograms of oil equivalent)                    | 760   |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)           | 82.7  |

### National-Level Actions

- Latest UNFCCC national communication                                   | 11/30/2001 (1st) |
- Annex-I emissions reduction target                                      | n/a             |
- NAMA submission                                                         | ..              |
- NAPA submission                                                         | n/a             |
- Renewable energy target                                                 | ..              |

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects                      | ..              |
- Issued Certified Emission Reductions (CERs) from CDM (thousands)       | ..              |
- Hosted Joint Implementation (JI) projects                              | n/a             |
- Issued Emission Reduction Units (ERUs) from JI (thousands)             | n/a             |
St. Martin (French part)

Population (thousands) 30.2 GDP ($ millions) ..
Pop. growth (avg. ann. %, 1990–2010) 0.0 GNI per capita (Atlas $) ..

Climate
Average daily min/max temperature (1961–90, Celsius) ..
Projected annual temperature change (2045–65, Celsius) ..
Average annual precipitation (1961–90, mm) ..
Projected annual precipitation change (2045–65, mm) ..
Projected change in annual hot days/warm nights ..
Projected change in annual cool days/cold nights ..

Exposure to Impacts

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | .. 2.2 |
| Population below 5m (% of total) | .. 7.7 |
| Population in urban agglomerations > 1 million (%) | .. .. |
| Urban pop. growth (avg. annual %, 1990–2010) | .. 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. .. |
| Annual freshwater withdrawals (% of internal resources) | .. 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. .. |
| Population living below $1.25 a day (% of total) | .. 13.4 |
| Nationally terrestrial protected areas (% of total land area) | .. .. |
| Under-five mortality rate (per 1,000) | .. 6 |
| Child malnutrition, underweight (% of under age five) | .. .. |
| Malaria incidence rate (per 100,000 people) | .. .. |

Resilience

| Access to improved sanitation (% of total pop.) | .. 100 |
| Access to improved water source (% of total pop.) | .. 100 |
| Cereal yield (kg. per hectare) | .. 5,445 |
| Access to electricity (% of total population) | .. .. |
| Paved roads (% of total roads) | .. 87.3 |
| Health workers (per 1,000 people) | .. 10.7 |
| Foreign direct investment, net inflows (% of GDP) | .. 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. 97 |
| Ease of doing business (ranking 1–183; 1 = best) | .. 100 |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. 97 |
| Primary completion rate, total (% of relevant age group) | .. 100 |
| Ratio of girls to boys in primary & secondary school (%) | .. 97 |

GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | .. 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. 354.4 |
| CO₂ emissions, total (MtCO₂) | .. 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. 480 |
| Other GHG emissions, total ( MtCO₂e) | .. 813 |
| Energy use per capita (kilograms of oil equivalent) | .. 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. 147.0 |

National-Level Actions

|Latest UNFCCC national communication | n/a |
|Annex-I emissions reduction target | n/a |
|NAMA submission | n/a |
|NAPA submission | n/a |
|Renewable energy target | .. |

Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | .. |
|Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
|Hosted Joint Implementation (JI) projects | n/a |
|Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
## St. Vincent & the Grenadines

### Population (thousands)
- Population: 109.3
- GDP ($ millions): 561.6
- GNI per capita (Atlas $): 4,850

### Climate
- Average daily min/max temperature (1961–90, Celsius): 23 / 30
- Projected annual temperature change (2045–65, Celsius): 1.4 to 1.7
- Average annual precipitation (1961–90, mm): 1,583
- Projected annual precipitation change (2045–65, mm): -165 to 15
- Projected change in annual hot days/warm nights: 15 / 25
- Projected change in annual cool days/cold nights: -3 / -3

### Exposure to Impacts

| Country data Latin America & the Carib. | Upper middle income |
|----------------------------------------|---------------------|
| Land area below 5m (% of land area)    | 22.0                | 1.5                | 1.8 |
| Population below 5m (% of total)       | 22.0                | 3.8                | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 35                 | 22  |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.9 | 2.0                | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | ..                | ..  |
| Annual freshwater withdrawals (% of internal resources) | .. | 2.0                | 5.6 |
| Agricultural land under irrigation (% of total ag, land) | .. | ..                | ..  |
| Population living below $1.25 a day (% of total) | .. | 8.1                | ..  |
| Nationally terrestrial protected areas (% of total land area) | 10.9 | 20.8              | 13.6|
| Under-five mortality rate (per 1,000)    | 21                  | 23                 | 20  |
| Child malnutrition, underweight (% of under age five) | .. | 3.8                | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | 206               | 80  |

### Resilience
- Access to improved sanitation (% of total pop.).. | .. | 79                | 68  |
- Access to improved water source (% of total pop.).. | .. | 93                | 92  |
- Cereal yield (kg, per hectare) | 3,387 | 3,337            | 3,690|
- Access to electricity (% of total population) | .. | 93.4              | 98.0|
- Paved roads (% of total roads) | 70.0 | 28.1              | 50.5|
- Health workers (per 1,000 people) | 4.5 | 6.9               | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | 17.8 | 2.3               | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 35 | 33,064            | 26,166|
- Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | ..                | ..  |
- Ease of doing business (ranking 1–183; 1 = best) | 75 | ..                | ..  |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 3.8 | ..                | ..  |
- Primary completion rate, total (% of relevant age group) | 109 | 102              | 98  |
- Ratio of girls to boys in primary & secondary school (%) | 98 | 102              | 103 |

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 1.8 | 2.8                | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 215.2 | 285.6            | 659.4|
- CO₂ emissions, total (MtCO₂) | 0.2 | 1,584             | 12,860|
- GHG net emissions/removals by LUCF (1997, MtCO₂e) | -0.1 | ..            | ..  |
- Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,009             | 3,455|
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 442               | 1,144|
- Other GHG emissions, total (MtCO₂e) | .. | 21                | 243 |
- Energy use per capita (kilograms of oil equivalent) | 642 | 1,245             | 1,848|
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 75.7 | 130.6            | 227.1|

### National-Level Actions
- Latest UNFCCC national communication | 11/21/2000 (1st) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | .. |
- NAPA submission | n/a |
- Renewable energy target | .. |

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | .. |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### Population (millions) 43.6  GDP ($ billions) 62.0
### Pop. growth (avg. ann. %, 1990-2010) 2.5  GNI per capita (Atlas $) 1,270

#### Climate
- Average daily min/max temperature (1961-90, Celsius) 19 / 34
- Projected annual temperature change (2045-65, Celsius) 2.1 to 2.6
- Average annual precipitation (1961-90, mm) 417
- Projected annual precipitation change (2045-65, mm) -69 to 44
- Projected change in annual hot days/warm nights 5 / 17
- Projected change in annual cool days/cold nights -2 / -2

#### Exposure to Impacts

| Country data | Sub-Saharan Africa | Lower middle income |
|--------------|--------------------|---------------------|
| Land area below 5m (% of land area) | 0.1 | 0.4 | 1.7 |
| Population below 5m (% of total) | 0.2 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 0.12 | 0.14 | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 5.1 | 4.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 2.8 |
| Annual freshwater withdrawals (% of internal resources) | 123.8 | 3.2 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | 1.0 | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 4.9 | 11.7 | 9.5 |
| Under-five mortality rate (per 1,000) | 103 | 121 | 69 |
| Child malnutrition, underweight (% of under age five) | 31.7 | 24.6 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 12,805 | 26,113 | 4,874 |

#### Resilience

| Access to improved sanitation (% of total pop.) | 34 | 31 | 45 |
| Access to improved water source (% of total pop.) | 57 | 60 | 84 |
| Cereal yield (kg, per hectare) | 587 | 1,297 | 2,754 |
| Access to electricity (% of total population) | 35.9 | 32.5 | 67.3 |
| Paved roads (% of total roads) | 36.3 | 18.3 | 29.3 |
| Health workers (per 1,000 people) | 1.1 | 1.2 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 4.7 | 3.6 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 478 | 11,957 | 81,789 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 135 |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 2.2 |
| Primary completion rate, total (% of relevant age group) | 57 | 67 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 89 | 89 | 93 |

#### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.3 | 0.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 173.2 | 428.6 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 14.1 | 685 | 3,744 |
| GHG net emissions/removals by LUCF (1995, MtCO₂e) | 17.8 |
| Methane (CH₄) emissions, total (MtCO₂e) | 67.4 | 590 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 49.5 | 334 | 687 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | .. | 17 |
| Energy use per capita (kilograms of oil equivalent) | 372 | 689 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 187.5 | 308.4 | 217.9 |

#### National-Level Actions

| Latest UNFCCC national communication | 6/7/2003 (1st) |
| Annex-I emissions reduction target | n/a |
| NAMA submission | .. |
| NAPA submission | Yes |
| Renewable energy target | .. |

#### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | 0 |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 |
| Hosted Joint Implementation (JI) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### Suriname

| Country data | Latin America & the Caribbean | Upper middle income |
|--------------|-------------------------------|---------------------|
| Population (thousands) | 524.6 | GDP ($ billions) | 3.3 |
| Pop. growth (avg. ann. %, 1990–2010) | 1.3 | GNI per capita (Atlas $) | 5,920 |

#### Climate
- Average daily min/max temperature (1961–90, Celsius): 21 / 30
- Projected annual temperature change (2045–65, Celsius): 1.9 to 2.9
- Average annual precipitation (1961–90, mm): 2,331
- Projected annual precipitation change (2045–65, mm): –138 to 107
- Projected change in annual hot days/warm nights: 10 / 27
- Projected change in annual cool days/cold nights: –2 / –3

#### Exposure to Impacts

| Land area below 5m (% of land area) | 3.4 | 1.5 | 1.8 |
| Population below 5m (% of total) | 68.2 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 35 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.8 | 2.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.3 |..|..|
| Annual freshwater withdrawals (% of internal resources) | 0.8 | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 15.5 | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 11.4 | 20.8 | 13.6 |
| Under-five mortality rate (per 1,000) | 31 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 7.5 | 3.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | 681 | 206 | 80 |

#### Resilience
- Access to improved sanitation (% of total pop.) | 84 | 79 | 68 |
- Access to improved water source (% of total pop.) | 93 | 93 | 92 |
- Cereal yield (kg. per hectare) | 3,750 | 3,337 | 3,690 |
- Access to electricity (% of total population) | .. | 93.4 | 98.0 |
- Paved roads (% of total roads) | 26.3 | 28.1 | 50.5 |
- Health workers (per 1,000 people) | 2.1 | 6.9 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | –2.9 | 2.3 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 60 | 33,064 | 26,166 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1–183; 1 = best) | 158 | .. | .. |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. | .. |
- Primary completion rate, total (% of relevant age group) | 88 | 102 | 98 |
- Ratio of girls to boys in primary & secondary school (%) | 107 | 102 | 103 |

#### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 4.7 | 2.8 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 697.7 | 285.6 | 659.4 |
- CO₂ emissions, total (MtCO₂) | 2.4 | 1,584 | 12,860 |
- GHG net emissions/removals by LUCF (2003, MtCO₂e) | 1.5 | .. | .. |
- Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,009 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 442 | 1,144 |
- Other GHG emissions, total (MtCO₂e) | .. | 21 | 243 |
- Energy use per capita (kilograms of oil equivalent) | 1,400 | 1,245 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 213.8 | 130.6 | 227.1 |

#### National-Level Actions
- Latest UNFCCC national communication | 3/27/2006 (1st) | .. | .. |
- Annex-I emissions reduction target | n/a | n/a | .. |
- NAMA submission | .. | .. | .. |
- NAPA submission | n/a | n/a | .. |
- Renewable energy target | .. | .. | .. |

#### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | .. | .. | .. |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | .. | .. |
- Hosted Joint Implementation (JI) projects | n/a | n/a | .. |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | n/a | .. |
## Swaziland

### Population (millions)
- 1.2

### GDP ($ billions)
- 3.6

### Pop. growth (avg. ann. %, 1990–2010)
- 1.6

### GNI per capita (Atlas $)
- 2,630

## Climate

| Country  | Sub-Saharan Africa | Lower middle income |
|----------|-------------------|---------------------|
| Population below 5m (% of land area) | 0.0 | 0.4 | 1.7 |
| Population below 5m (% of total) | 0.0 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 14 | 14 |
| Urban pop. growth (avg. ann. %, 1990–2010) | 2.1 | 4.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 9.2 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 39.5 | 3.2 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 62.9 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 3.0 | 11.7 | 9.5 |
| Under-five mortality rate (per 1,000) | 78 | 121 | 69 |
| Child malnutrition, underweight (% of under age five) | 6.1 | 24.6 | 31.7 |
| Malnutrition incidence rate (per 100,000 people) | 57 | 26,113 | 4,874 |

## Resilience

| Country  | Sub-Saharan Africa | Lower middle income |
|----------|-------------------|---------------------|
| Access to improved sanitation (% of total pop.) | 55 | 31 | 45 |
| Access to improved water source (% of total pop.) | 69 | 60 | 84 |
| Cereal yield (kg. per hectare) | 1,148 | 1,297 | 2,754 |
| Access to electricity (% of total population) | .. | 32.5 | 67.3 |
| Paved roads (% of total roads) | 30.0 | 18.3 | 29.3 |
| Health workers (per 1,000 people) | 6.5 | 1.2 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 2.5 | 3.6 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 15 | 11,957 | 81,789 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 124 | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. | .. |
| Primary completion rate, total (% of relevant age group) | 72 | 67 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 92 | 89 | 93 |

## GHG Emissions and Energy Use

| Country  | Sub-Saharan Africa | Lower middle income |
|----------|-------------------|---------------------|
| CO₂ emissions per capita (metric tons) | 0.9 | 0.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 205.6 | 428.6 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 1.1 | 685 | 3,744 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | –3.3 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 590 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 334 | 687 |
| Other GHG emissions, total (MtCO₂e) | .. | .. | 17 |
| Energy use per capita (kilograms of oil equivalent) | 373 | 689 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 81.5 | 308.4 | 217.9 |

## National-Level Actions

| Country  | Sub-Saharan Africa | Lower middle income |
|----------|-------------------|---------------------|
| Latest UNFCCC national communication | 5/21/2002 (1st) | n/a |
| Annex-I emissions reduction target | .. | .. |
| NAMA submission | .. | .. |
| NAPA submission | n/a | .. |
| Renewable energy target | .. | .. |

## Carbon Markets

| Country  | Sub-Saharan Africa | Lower middle income |
|----------|-------------------|---------------------|
| Hosted Clean Development Mechanism (CDM) projects | 0 | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 | .. | .. |
| Hosted Joint Implementation (JI) projects | n/a | .. | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. | .. |
| Country data | High income |
|-------------|-------------|
| Population (millions) | 9.4 | 207 |
| GDP ($ billions) | 458.0 | 50,000 |
| Pop. growth (avg. ann. %, 1990–2010) | 0.5 |

**Climate**

- Average daily min/max temperature (1961–90, Celsius) | -2 / 6 |
- Projected annual temperature change (2045–65, Celsius) | 2.1 to 3.1 |
- Average annual precipitation (1961–90, mm) | 624 |
- Projected annual precipitation change (2045–65, mm) | 35 to 107 |
- Projected change in annual hot days/warm nights | 2 / 4 |
- Projected change in annual cool days/cold nights | -2 / -2 |

**Exposure to Impacts**

| Land area below 5m (% of land area) | 1.5 |
| Population below 5m (% of total) | 6.3 |
| Population in urban agglomerations > 1 million (%) | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.6 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 |
| Annual freshwater withdrawals (% of internal resources) | 1.6 |
| Agricultural land under irrigation (% of total ag. land) | .. |
| Pop. living below $1.25 a day (% of total) | 11.3 |
| Under-five mortality rate (per 1,000) | 3 |
| Child malnutrition, underweight (% of under age five) | .. |
| Malaria incidence rate (per 100,000 people) | .. |

**Resilience**

- Access to improved sanitation (% of total pop.) | 1.00 |
- Access to improved water source (% of total pop.) | 1.00 |
- Cereal yield (kg. per hectare) | 5,086 |
- Access to electricity (% of total population) | .. |
- Paved roads (% of total roads) | 23.6 |
- Health workers (per 1,000 people) | 15.2 |
- Foreign direct investment, net inflows (% of GDP) | 1.2 |
- Invest. in infrastructure w/private participation ($ millions) | .. |
- Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.8 |
- Ease of doing business (ranking 1–183; 1 = best) | 14 |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. |
- Primary completion rate, total (% of relevant age group) | 95 |
- Ratio of girls to boys in primary & secondary school (%) | 97 |

**GHG Emissions and Energy Use**

- CO₂ emissions per capita (metric tons) | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 155.1 |
- CO₂ emissions, total (MtCO₂) | 49.0 |
- GHG net emissions/removals by LUCF (2009, MtCO₂e) | -41.6 |
- Methane (CH₄) emissions, total (MtCO₂e) | 11.3 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 5.9 |
- Other GHG emissions, total (MtCO₂e) | 2.1 |
- Energy use per capita (kilograms of oil equivalent) | 5,414 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 160.7 |

**National-Level Actions**

- Latest UNFCCC national communication | 2/4/2010 (5th) |
- Annex-I emissions reduction target (base year: 1990) | 20% / 30% (EU) |
- NAMA submission | n/a |
- NAPA submission | n/a |
- Renewable energy target | Yes |

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects | n/a |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
- Hosted Joint Implementation (JI) projects | 0 |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | 0 |
Switzerland

| Population (millions) | 7.8 | GDP ($ billions) | 523.8 |
|-----------------------|-----|-----------------|-------|
| Pop. growth (avg. ann. %, 1990-2010) | 0.8 | GNI per capita (Atlas $) | 70,030 |

**Climate**

- Average daily min/max temperature (1961-90, Celsius): 2 / 9
- Projected annual temperature change (2045-65, Celsius): 1.7 to 2.8
- Average annual precipitation (1961-90, mm): 1,537
- Projected annual precipitation change (2045-65, mm): -89 to 11
- Projected change in annual hot days/warm nights: 3 / 6
- Projected change in annual cool days/cold nights: -1 / -1

**Exposure to Impacts**

| Country | data |
|---------|------|
| Land area below 5m (% of land area) | 0.0 | 7.7 |
| Population below 5m (% of total) | 0.0 | .. |
| Population in urban agglomerations > 1 million (%) | 15 | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 0.8 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 6.5 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | .. |
| Nationally terrestrial protected areas (% of total land area) | 22.8 | 13.4 |
| Under-five mortality rate (per 1,000) | 5 | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

**Resilience**

| Country | data |
|---------|------|
| Access to improved sanitation (% of total pop.) | 100 | 100 |
| Access to improved water source (% of total pop.) | 100 | 100 |
| Cereal yield (kg. per hectare) | 6,579 | 5,445 |
| Access to electricity (% of total pop.) | .. | .. |
| Paved roads (% of total roads) | 100.0 | 87.3 |
| Health workers (per 1,000 people) | 4.1 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | -1.2 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 4.8 | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 26 | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 96 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 98 | 100 |

**GHG Emissions and Energy Use**

| Country | data |
|---------|------|
| CO₂ emissions per capita (metric tons) | 5.3 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 138.7 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 40.4 | 13,285 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | 0.1 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 4.7 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 2.4 | 813 |
| Other GHG emissions, total (MtCO₂e) | 2.1 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 3,362 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 89.8 | 147.0 |

**National-Level Actions**

- Latest UNFCCC national communication: 12/4/2009 (5th)
- Annex-I emissions reduction target (base year: 1990): 20% / 30%
- NAMA submission: n/a
- NAPA submission: n/a
- Renewable energy target: Yes

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects: n/a
- Issued Certified Emission Reductions (CERs) from CDM (thousands): n/a
- Hosted Joint Implementation (JI) projects: ..
- Issued Emission Reduction Units (ERUs) from JI (thousands): ..
| Exposures to Impacts | Country data | Middle East & N. Africa | Lower middle income |
|----------------------|--------------|-------------------------|---------------------|
| Land area below 5m (% of land area) | 0.1 | 1.4 | 1.7 |
| Population below 5m (% of total) | 0.3 | 9.7 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 34 | 20 | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 3.1 | 2.5 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.5 | | |
| Annual freshwater withdrawals (% of internal resources) | 235.0 | 121.9 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | 8.9 | | |
| Population living below $1.25 a day (% of total) | <2 | 3.6 | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.6 | 4.0 | 9.5 |
| Under-five mortality rate per 1,000 | 16 | 34 | 69 |
| Child malnutrition, underweight (% of under age five) | 10.0 | 6.8 | 31.7 |
| Malnutrition incidence rate (per 100,000 people) | .. | .. | 4,874 |

| Resilience Measures | Country data | Middle East & N. Africa | Lower middle income |
|---------------------|--------------|-------------------------|---------------------|
| Access to improved sanitation (% of total pop.) | 96 | 84 | 45 |
| Access to improved water source (% of total pop.) | 89 | 87 | 84 |
| Cereal yield (kg, per hectare) | 1,708 | 2,512 | 2,754 |
| Access to electricity (% of total population) | 92.7 | 92.9 | 67.3 |
| Paved roads (% of total roads) | 91.0 | 74.3 | 29.3 |
| Health workers (per 1,000 people) | 3.4 | 3.6 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 2.3 | 2.9 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 65 | 5,854 | 81,789 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 3.5 | | |
| Ease of doing business (ranking 1-183; 1 = best) | 134 | | |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | | |
| Primary completion rate, total (% of relevant age group) | 112 | 88 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 97 | 93 | 93 |

| GHG Emissions and Energy Use | Country data | Middle East & N. Africa | Lower middle income |
|------------------------------|--------------|-------------------------|---------------------|
| CO₂ emissions per capita (% metric tons) | 3.6 | 3.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 808.0 | 604.6 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 71.6 | 1,230 | 3,744 |
| GHG net emissions/removals by LUCF (MtCO₂) | .. | | |
| Methane (CH₄) emissions, total (MtCO₂) | 12.5 | 287 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂) | 5.5 | 74 | 687 |
| Other GHG emissions, total (MtCO₂) | 0.0 | 7 | 17 |
| Energy use per capita (kilograms of oil equivalent) | 1,123 | 1,399 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 239.5 | 213.9 | 217.9 |

| National-Level Actions | Latest UNFCCC national communication | 12/29/2010 (1st) | n/a |
|------------------------|--------------------------------------|------------------|-----|
| Annex-I emissions reduction target | | | n/a |
| NAMA submission | .. | | n/a |
| NAPA submission | | | n/a |
| Renewable energy target | | | Yes |

| Carbon Markets | Hosted Clean Development Mechanism (CDM) projects | 3 | |
|----------------|-----------------------------------------------|---|---|
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 | | |
| Hosted Joint Implementation (JI) projects | | | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | | | n/a |
Tajikistan

Population (millions) 6.9 GDP ($ billions) 5.6
Pop. growth (avg. ann. %, 1990–2010) 1.3 GNI per capita (Atlas $) 800

Climate

Average daily min/max temperature (1961–90, Celsius) -4 / 8
Projected annual temperature change (2045–65, Celsius) 2.3 to 3.4
Average annual precipitation (1961–90, mm) 491
Projected annual precipitation change (2045–65, mm) -46 to 27
Projected change in annual hot days/warm nights 3 / 7
Projected change in annual cool days/cold nights -1 / -1

Exposure to Impacts

| Country data | Europe & Central Asia | Low income |
|--------------|-----------------------|------------|
| Land area below 5m (% of land area) | 0.0 | 2.5 | 0.7 |
| Population below 5m (% of total) | 0.0 | 3.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | .. | 18 | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.4 | 0.3 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 5.4 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 18.0 | 6.5 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | 14.8 | .. | .. |
| Population living below $1.25 a day (% of total) | 21.5 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 4.1 | 7.5 | 10.6 |
| Under-five mortality rate (per 1,000) | 63 | 23 | 108 |
| Child malnutrition, underweight (% of under age five) | 14.9 | .. | 28.3 |
| Malaria incidence rate (per 100,000 people) | 9 | .. | 16,859 |

Resilience

Access to improved sanitation (% of total pop.) 94 | 89 | 35 |
Access to improved water source (% of total pop.) 70 | 95 | 63 |
Cereal yield (kg. per hectare) 2,731 | 2,475 | 2,047 |
Access to electricity (% of total population) .. | .. | .. |
Paved roads (% of total roads) 85.8 | .. | .. |
Health workers (per 1,000 people) 7.0 | 9.9 | 0.7 |
Foreign direct investment, net inflows (% of GDP) 0.3 | 2.8 | 3.2 |
Invest. in infrastructure w/private participation ($ millions) 56 | 22,652 | 4,471 |
Disaster risk reduction progress score (1–5 scale; 5 = best) .. | .. | .. |
Ease of doing business (ranking 1–183; 1 = best) 147 |
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) 2.8 |
Primary completion rate, total (% of relevant age group) 98 | 95 | 65 |
Ratio of girls to boys in primary & secondary school (%) 91 | 97 | 91 |

GHG Emissions and Energy Use

CO₂ emissions per capita (metric tons) 0.5 | 7.7 | 0.3 |
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 264.0 | 708.0 | 270.2 |
CO₂ emissions, total (MtCO₂) 3.1 | 3,110 | 219 |
GHG net emissions/removals by LUCF (2003, MtCO₂e) -1.9 |
Methane (CH₄) emissions, total (MtCO₂e) 3.9 | 937 | 436 |
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 1.4 | 214 | 209 |
Other GHG emissions, total (MtCO₂e) 0.4 | 76 | .. |
Energy use per capita (kilograms of oil equivalent) 342 | 2,833 | 365 |
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 180.3 | 276.8 | 303.9 |

National-Level Actions

Latest UNFCCC national communication 12/31/2008 (2nd) |
Annex-I emissions reduction target n/a |
NAMA submission Yes |
NAPA submission n/a |
Renewable energy target .. |

Carbon Markets

Hosted Clean Development Mechanism (CDM) projects 0 |
Issued Certified Emission Reductions (CERs) from CDM (thousands) 0 |
Hosted Joint Implementation (JI) projects n/a |
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Tanzania

| Country data | Sub-Saharan Africa | Low income |
|-------------|-------------------|------------|
| Population (millions) | 44.8 | GDP ($ billions) | 23.1 |
| Pop. growth (avg. ann. %, 1990-2010) | 2.8 | GNI per capita (Atlas $) | 530 |

#### Climate
- Average daily min/max temperature (1961-90, Celsius): 17 / 28
- Projected annual temperature change (2045-65, Celsius): 1.9 to 2.2
- Average annual precipitation (1961-90, mm): 1,071
- Projected annual precipitation change (2045-65, mm): -9 to 167
- Projected change in annual hot days/warm nights: 6 / 22
- Projected change in annual cool days/cold nights: -2 / -3

#### Exposure to Impacts

| Metric | Sub-Saharan Africa | Low income |
|--------|-------------------|------------|
| Land area below 5m (% of land area) | 0.2 | 0.4 | 0.7 |
| Population below 5m (% of total) | 1.3 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | 7 | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990-2010) | 4.5 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 1.5 | | |
| Annual freshwater withdrawals (% of internal resources) | 6.2 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 67.9 | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 27.7 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 76 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 16.7 | 24.6 | 28.3 |
| Malnutrition incidence rate (per 100,000 people) | 24,088 | 26,113 | 16,859 |

#### Resilience

| Metric | Sub-Saharan Africa | Low income |
|--------|-------------------|------------|
| Access to improved sanitation (% of total pop.) | 24 | 31 | 35 |
| Access to improved water source (% of total pop.) | 54 | 60 | 63 |
| Cereal yield (kg. per hectare) | 1,110 | 1,297 | 2,047 |
| Access to electricity (% of total population) | 13.9 | 32.5 | 23.0 |
| Paved roads (% of total roads) | 7.4 | 18.3 | 14.1 |
| Health workers (per 1,000 people) | 0.2 | 1.2 | 0.7 |
| Foreign direct investment, net inflows (% of GDP) | 1.9 | 3.6 | 3.2 |
| Invest. in infrastructure w/private participation ($ millions) | 625 | 11,957 | 4,471 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 3.5 | | |
| Ease of doing business (ranking 1-183; 1 = best) | 127 | | |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 3.3 | | |
| Primary completion rate, total (% of relevant age group) | 102 | 67 | 65 |
| Ratio of girls to boys in primary & secondary school (%) | 96 | 89 | 91 |

#### GHG Emissions and Energy Use

| Metric | Sub-Saharan Africa | Low income |
|--------|-------------------|------------|
| CO₂ emissions per capita (metric tons) | 0.2 | 0.8 | 0.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 130.4 | 428.6 | 270.2 |
| CO₂ emissions, total (MtCO₂) | 6.5 | 685 | 219 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | 913.6 | | |
| Methane (CH₄) emissions, total (MtCO₂e) | 32.0 | 590 | 436 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 21.6 | 334 | 209 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | | |
| Energy use per capita (kilograms of oil equivalent) | 451 | 689 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 373.1 | 308.4 | 303.9 |

#### National-Level Actions

- Latest UNFCCC national communication: 7/4/2003 (1st)
- Annex-I emissions reduction target: n/a
- NAMA submission: ..
- NAPA submission: Yes
- Renewable energy target: ..

#### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: 1
- Issued Certified Emission Reductions (CERs) from CDM (thousands): 56
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
Thailand

Population (millions) 69.1 GDP ($ billions) 318.8
Pop. growth (avg. ann. %, 1990–2010) 1.0 GNI per capita (Atlas $) 4,150

Climate
Average daily min/max temperature (1961–90, Celsius) 21 / 31
Projected annual temperature change (2045–65, Celsius) 1.7 to 2.1
Average annual precipitation change (1961–90, mm) 1,622
Projected annual precipitation change (2045–65, mm) -109 to 76
Projected change in annual hot days/warm nights 4 / 17
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts
Land area below 5m (% of land area) 4.2 Country data
Population below 5m (% of total) 13.8 East Asia & Pacific
Population in urban agglomerations > 1 million (%) 10 ..
Urban pop. growth (avg. %, 1990–2010) 1.7 ..
Droughts, floods, extreme temps (% pop. avg., 1990–2009) 3.8 ..
Annual freshwater withdrawals (% of internal resources) 25.5 ..
Agricultural land under irrigation (% of total ag. land) .. ..
Population living below $1.25 a day (% of total) <2 ..
Nationally terrestrial protected areas (% of total land area) 19.6 ..
Under-five mortality rate (per 1,000) 13 ..
Child malnutrition, underweight (% of under age five) 7.0 ..
Malaria incidence rate (per 100,000 people) 322 ..

Resilience
Access to improved sanitation (% of total pop.) 96..
Access to improved water source (% of total pop.) 98..
Cereal yield (kg. per hectare) 2,951..
Access to electricity (% of total population) 99.3..
Paved roads (% of total roads) 98.5..
Health workers (per 1,000 people) 1.8..
Foreign direct investment, net inflows (% of GDP) 2.0..
Invest. in infrastructure w/private participation ($ millions) 4,720..
Disaster risk reduction progress score (1–5 scale; 5 = best) 3.8..
Ease of doing business (ranking 1–183; 1 = best) 17..
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) ..
Primary completion rate, total (% of relevant age group) 103..
Ratio of girls to boys in primary & secondary school (%) 103..

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 4.2 East Asia & Pacific
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 567.3..
CO₂ emissions, total (MtCO₂) 285.7..
GHG net emissions/removals by LUCF (2000, MtCO₂e) -7.9..
Methane (CH₄) emissions, total (MtCO₂e) 83.3..
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 22.3..
Other GHG emissions, total (MtCO₂e) 1.1..
Energy use per capita (kilograms of oil equivalent) 1,504..
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 210.0..

National-Level Actions
Latest UNFCCC national communication 3/24/2011 (2nd)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission n/a
Renewable energy target Yes

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 55
Issued Certified Emission Reductions (CERs) from CDM (thousands) 902
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Timor-Leste

| Country data | East & Pacific | Lower middle income |
|--------------|----------------|---------------------|

| Population (millions) | 1.1 | GDP ($ millions) | 701.0 |
|------------------------|-----|-----------------|------|
| Pop. growth (avg. ann. %, 1990–2010) | 2.1 | GNI per capita (Atlas $) | 2,220 |

### Climate

|                      | 2045–65, Celsius | 2011–40, Celsius |
|----------------------|----------------|----------------|
| Average daily min/max temperature | 0.3 | 0.3 |
| Projected annual temperature change | 1.3 to 1.7 | 1.3 to 1.7 |
| Average annual precipitation (1961–90, mm) | 123 to 206 | 123 to 206 |
| Projected annual precipitation change (2045–65, mm) | -3 / -3 | -3 / -3 |
| Projected change in annual hot days/warm nights | 16 / 26 | 16 / 26 |
| Projected change in annual cool days/cold nights | -3 / -3 | -3 / -3 |

### Exposure to Impacts

| Land area below 5m (% of land area) | 2.9 | East Asia & Pacific | 2.5 |
| Population below 5m (% of total) | 4.4 | Lower middle income | 6.5 |
| Population in urban agglomerations > 1 million (%) | 14 | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 3.6 | East Asia & Pacific | 3.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | Lower middle income | 0.0 |
| Annual freshwater withdrawals (% of internal resources) | 10.8 | East Asia & Pacific | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | Lower middle income | .. |
| Population living below $1.25 a day (% of total) | 37.4 | East Asia & Pacific | 16.8 |
| Nationally terrestrial protected areas (% of total land area) | 6.0 | Lower middle income | 14.9 |
| Under-five mortality rate (per 1,000) | 55 | East Asia & Pacific | 24 |
| Child malnutrition, underweight (% of under age five) | 41.5 | Lower middle income | 9.0 |
| Malnutrition incidence rate (per 100,000 people) | 46,380 | East Asia & Pacific | 525 |

### Resilience

| Access to improved sanitation (% of total pop.) | 50 | East Asia & Pacific | 59 |
| Access to improved water source (% of total pop.) | 69 | Lower middle income | 84 |
| Cereal yield (kg. per hectare) | 2,316 | East Asia & Pacific | 4,860 |
| Access to electricity (% of total population) | 22.0 | Lower middle income | 90.8 |
| Paved roads (% of total roads) | 15.9 | East Asia & Pacific | 29.3 |
| Health workers (per 1,000 people) | 2.3 | Lower middle income | 2.8 |
| Foreign direct investment, net inflows (% of GDP) | 39.9 | East Asia & Pacific | 3.0 |
| Invest. in infrastructure w/private participation ($ millions) | .. | Lower middle income | 14,638 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | East Asia & Pacific | 81,789 |
| Ease of doing business (ranking 1–183; 1 = best) | 168 | Lower middle income | 2.7 |
| Public sector mgt & institutions avg. (1–6 scale; 6 = best) | 2.7 | East Asia & Pacific | 80 |
| Primary completion rate, total (% of relevant age group) | 95 | Lower middle income | 103 |
| Ratio of girls to boys in primary & secondary school (%) | 93 | East Asia & Pacific | 88 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.2 | East Asia & Pacific | 4.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 234.5 | Lower middle income | 827.1 |
| CO₂ emissions, total (MtCO₂) | 0.2 | East Asia & Pacific | 8,259 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | Lower middle income | 3,744 |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | East Asia & Pacific | 1,928 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | Lower middle income | 707 |
| Other GHG emissions, total (MtCO₂e) | .. | East Asia & Pacific | 17 |
| Energy use per capita (kilograms of oil equivalent) | 58 | Lower middle income | 1,436 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 84.9 | East Asia & Pacific | 259.5 |

### National-Level Actions

| Latest UNFCCC national communication | 12/20/2001 (1st) | East Asia & Pacific | n/a |
| Annex-I emissions reduction target | n/a | Lower middle income | n/a |
| NAMA submission | .. | East Asia & Pacific | Yes |
| NAPA submission | .. | Lower middle income | .. |
| Renewable energy target | .. | East Asia & Pacific | .. |

### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | .. | East Asia & Pacific | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | Lower middle income | .. |
| Hosted Joint Implementation (JI) projects | .. | East Asia & Pacific | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | .. | Lower middle income | n/a |

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The Little Data Book on Climate Change 2011
Country data
Sub-Saharan Africa
Low income

**Exposure to Impacts**

| Metric | Togo | Sub-Saharan Africa | Low income |
|--------|------|-------------------|------------|
| Population (millions) | 6.0 | 0.4 | 0.7 |
| GDP ($ billions) | 3.2 | | |
| Pop. growth (avg. ann. %, 1990-2010) | 2.5 | | |
| GNI per capita (Atlas $) | 490 | | |

**Climate**

- Average daily min/max temperature (1961-90, Celsius): 22 / 33
- Projected annual temperature change (2045-65, Celsius): 1.9 to 2.5
- Average annual precipitation (1961-90, mm): 1,168
- Projected annual precipitation change (2045-65, mm): -175 to 100
- Projected change in annual hot days/warm nights: 6 / 21
- Projected change in annual cool days/cold nights: -2 / -2

**Resilience**

| Metric | Togo | Sub-Saharan Africa | Low income |
|--------|------|-------------------|------------|
| Access to improved sanitation (% of total pop.) | 12 | 31 | 35 |
| Access to improved water source (% of total pop.) | 60 | 60 | 63 |
| Access to electricity (% of total population) | 1.398 | 1,297 | 2,047 |
| Access to water supply (% of total population) | 20.0 | 32.5 | 23.0 |
| Paved roads (% of total roads) | 21.0 | 18.3 | 14.1 |
| Health workers (per 1,000 people) | 0.3 | 1.2 | 0.7 |
| Foreign direct investment, net inflows (% of GDP) | 1.3 | 3.6 | 3.2 |
| Invest. in infrastructure w/private participation ($ millions) | 23 | 11,957 | 4,471 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | ... | ... | ... |
| Ease of doing business (ranking 1-183; 1 = best) | 162 | | |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 2.6 | | |
| Primary completion rate, total (% of relevant age group) | 61 | 67 | 65 |
| Ratio of girls to boys in primary & secondary school (%) | 75 | 89 | 91 |

**GHG Emissions and Energy Use**

| Metric | Togo | Sub-Saharan Africa | Low income |
|--------|------|-------------------|------------|
| CO₂ emissions per capita (metric tons) | 0.2 | 0.8 | 0.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 280.6 | 428.6 | 270.2 |
| CO₂ emissions, total (MtCO₂) | 1.4 | 685 | 219 |
| GHG net emissions/removals by LUCF (1998, MtCO₂e) | 28.1 | | |
| Methane (CH₄) emissions, total (MtCO₂e) | 2.9 | 590 | 436 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 1.7 | 334 | 209 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | ... | ... |
| Energy use per capita (kilograms of oil equivalent) | 445 | 689 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 503.1 | 308.4 | 303.9 |

**National-Level Actions**

- Latest UNFCCC national communication: 7/21/2005 (1st)
- Annex-I emissions reduction target: n/a
- NAMA submission: Yes
- NAPA submission: Yes
- Renewable energy target: n/a

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects: 0
- Issued Certified Emission Reductions (CERs) from CDM (thousands): 0
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
| Country data | East Asia & Pacific | Lower middle income |
|-------------|---------------------|---------------------|
| Pop. growth (avg. ann. %, 1990-2010) | 0.4 | 8.4 |
| GDP ($ millions) | 357.5 | 217.9 |
| GNI per capita (Atlas $) | 3,390 | 567 |

### Climate

Average daily min/max temperature (1961-90, Celsius) 23 / 28
Projected annual temperature change (2045-65, Celsius) 1.3 to 1.7
Average annual precipitation (1961-90, mm) 1,966
Projected annual precipitation change (2045-65, mm) -13 to 182
Projected change in annual hot days/warm nights 8 / 14
Projected change in annual cool days/cold nights -3 / -3

### Exposure to Impacts

| Land area below 5m (% of land area) | Population below 5m (% of total) | Population in urban agglomerations > 1 million (%) | Urban pop. growth (avg. annual %, 1990-2010) | Droughts, floods, extreme temps (% pop. avg., 1990-2009) | Annual freshwater withdrawals (% of internal resources) | Agricultural land under irrigation (% of total ag. land) | Population living below $1.25 a day (% of total) | Nationally terrestrial protected areas (% of total land area) | Under-five mortality rate (per 1,000) | Child malnutrition, underweight (% of under age five) | Malaria incidence rate (per 100,000 people) |
|-----------------------------------|----------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| 40.5                              | 31.3                             | ..                                            | 1.0                                           | ..                                            | 10.8                                          | ..                                            | 14.5                                          | 16                                            | ..                                            | 9.0                                           | ..                                            |
| 2.5                               | 10.3                             | 14                                            | 3.3                                           | 2.8                                           | 18.7                                          | ..                                            | 14.9                                          | 49                                            | ..                                            | 31.7                                          | 4.874                                         |
| 1.7                               | 6.5                              | ..                                            | ..                                           | ..                                            | ..                                            | 1.7                                           | ..                                            | ..                                            | ..                                            | 95                                            | ..                                            |

### Resilience

| Access to improved sanitation (% of total pop.) | Access to improved water source (% of total pop.) | Cereal yield (kg. per hectare) | Access to electricity (% of total population) | Paved roads (% of total roads) | Health workers (per 1,000 people) | Foreign direct investment, net inflows (% of GDP) | Invest. in infrastructure w/private participation ($ millions) | Disaster risk reduction progress score (1-5 scale; 5 = best) | Ease of doing business (ranking 1-183; 1 = best) | Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | Primary completion rate, total (% of relevant age group) | Ratio of girls to boys in primary & secondary school (%) | GHG Emissions and Energy Use |
|-----------------------------------------------|-----------------------------------------------|---------------------------------|-----------------------------------------------|---------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 96                                            | 100                                           | ..                              | 90.8                                          | 27.0                                           | 2.9                                    | 4.5                                            | 10                                             | ..                                            | 58                                            | 3.8                                            | 105                                           | 100                                           |
| 59                                            | 88                                             | 4,860                           | 67.3                                          | 29.3                                            | 2.6                                    | 3.0                                            | 14,638                                          | 5                                             | 58                                            | 6                                             | 97                                            | 103                                           |
| 45                                            | 84                                             | 2,754                           | ..                                            | ..                                            | ..                                    | 2.4                                            | 81,789                                          | ..                                            | ..                                            | ..                                            | 88                                            | 93                                            |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | CO₂ emissions, total (MtCO₂) | GHG net emissions/removals by LUCF (1994, MtCO₂e) | Methane (CH₄) emissions, total (MtCO₂e) | Nitrous oxide (N₂O) emissions, total (MtCO₂e) | Other GHG emissions, total (MtCO₂e) | Energy use per capita (kilograms of oil equivalent) | Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | National-Level Actions |
|---------------------------------------|--------------------------------------------------------|-----------------------------|-----------------------------------------------|-----------------------------------------|----------------------------------------|----------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------
| 1.7                                   | 413.9                                                  | 0.2                         | -0.3                                          | ..                                      | ..                                     | ..                                     | 567                             | 139.9                           | Latest UNFCCC national communication |
| 4.3                                   | 827.1                                                  | 8,259                       | 1,928                                         | 707                                     | ..                                     | ..                                     | 1,436                           | 259.5                           | Annex-I emissions reduction target |
| 1.6                                   | 523.9                                                  | 3,744                       | 1,705                                         | 687                                     | 17                                     | ..                                     | 680                             | 217.9                           | NAMA submission |

### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | Issued Certified Emission Reductions (CERs) from CDM (thousands) | Hosted Joint Implementation (JI) projects | Issued Emission Reduction Units (ERUs) from JI (thousands) |
|--------------------------------------------------|---------------------------------------------------------------|------------------------------------------|----------------------------------------------------------|
| ..                                               | ..                                                            | n/a                                      | n/a                                                      |
| ..                                               | ..                                                            | n/a                                      | n/a                                                      |
### Trinidad and Tobago

| Country data | High income |
|--------------|-------------|
| Population (millions) | 1.3 | 8.0 |
| GDP ($ billions) | 20.4 | 2.2 |
| Pop. growth (avg. ann. %, 1990-2010) | 0.5 | 7.5 |
| GNI per capita (Atlas $) | 15,400 | 7.7 |

#### Climate
- Average daily min/max temperature (1961-90, Celsius) | 22 / 30
- Projected annual temperature change (2045-65, Celsius) | 1.5 to 2.1
- Average annual precipitation (1961-90, mm) | 1,787
- Projected annual precipitation change (2045-65, mm) | -266 to 8
- Projected change in annual hot days/warm nights | 15 / 26
- Projected change in annual cool days/cold nights | -3 / -3

#### Exposure to Impacts

| | | |
|----------------|----------------|----------------|
| Land area below 5m (% of land area) | 8.0 | 2.2 |
| Population below 5m (% of total) | 7.5 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990-2010) | 3.0 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.0 | .. |
| Annual freshwater withdrawals (% of internal resources) | 6.0 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | 12.7 | .. |
| Population living below $1.25 a day (% of total) | 4.2 | .. |
| Nationally terrestrial protected areas (% of total land area) | 31.2 | 13.4 |
| Under-five mortality rate (per 1,000) | 27 | 6 |
| Child malnutrition, underweight (% of under age five) | 4.4 | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

#### Resilience

| | |
|----------------|----------------|
| Access to improved sanitation (% of total pop.) | 92 | 100 |
| Access to improved water source (% of total pop.) | 94 | 100 |
| Cereal yield (kg. per hectare) | 2,598 | 5,445 |
| Access to electricity (% of total population) | 99.0 | .. |
| Paved roads (% of total roads) | 51.1 | 87.3 |
| Health workers (per 1,000 people) | 4.7 | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | 2.7 | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 68 | .. |
| Ease of doing business (ranking 1-183; 1 = best) | 93 | 97 |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 101 | 100 |
| Primary completion rate, total (% of relevant age group) | .. | .. |
| Ratio of girls to boys in primary & secondary school (%) | .. | .. |

#### GHG Emissions and Energy Use

| | | |
|----------------|----------------|----------------|
| CO₂ emissions per capita (metric tons) | 37.4 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 1,552.9 | 354.4 |
| CO₂ emissions, total (MtCO₂) | 49.8 | 13,285 |
| GHG net emissions/removals by LUCF (1990, MtCO₂e) | -1.5 | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 10.1 | 1,539 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 0.2 | 813 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | 460 |
| Energy use per capita (kilograms of oil equivalent) | 15,158 | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 654.9 | 147.0 |

#### National-Level Actions

| | |
|----------------|----------------|
| Latest UNFCCC national communication | 11/30/2001 (1st) |
| Annex-I emissions reduction target | n/a |
| NAMA submission | .. |
| NAPA submission | n/a |
| Renewable energy target | .. |

#### Carbon Markets

| | |
|----------------|----------------|
| Hosted Clean Development Mechanism (CDM) projects | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. |
| Hosted Joint Implementation (JI) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
## Tunisia

| Population (millions) | 10.5 | GDP ($ billions) | 44.3 |
|-----------------------|------|-----------------|------|
| Pop. growth (avg. ann. %, 1990-2010) | 1.3 | GNI per capita (Atlas $) | 4,060 |

### Climate
- Average daily min/max temperature (1961-90, Celsius): 14 / 25
- Projected annual temperature change (2045-65, Celsius): 1.9 to 2.6
- Average annual precipitation (1961-90, mm): 313
- Projected annual precipitation change (2045-65, mm): -57 to -16
- Projected change in annual hot days/warm nights: 3 / 7
- Projected change in annual cool days/cold nights: -2 / -2

### Exposure to Impacts

| Country data | Middle East & N. Africa | Upper middle income |
|--------------|-------------------------|---------------------|
| Land area below 5m (% of land area) | 2.8 | 1.4 | 1.8 |
| Population below 5m (% of total) | 9.5 | 9.7 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 20 | 22 |
| Urban pop. growth (avg. annual %, 1990-2010) | 2.0 | 2.5 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.1 | | |
| Annual freshwater withdrawals (% of internal resources) | 67.6 | 121.9 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 4.1 | .. | .. |
| Population living below $1.25 a day (% of total) | 2.6 | 3.6 | .. |
| Nationally terrestrial protected areas (% of total land area) | 1.3 | 4.0 | 13.6 |
| Under-five mortality rate (per 1,000) | 16 | 34 | 20 |
| Child malnutrition, underweight (% of under age five) | 3.3 | 6.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | .. | 80 |

### Resilience
- Access to improved sanitation (% of total pop.) | 85 | 84 | 68 |
- Access to improved water source (% of total pop.) | 94 | 87 | 92 |
- Cereal yield (kg. per hectare) | 1,813 | 2,512 | 3,690 |
- Access to electricity (% of total population) | 99.5 | 92.9 | 98.0 |
- Paved roads (% of total roads) | 75.2 | 74.3 | 50.5 |
- Health workers (per 1,000 people) | 4.5 | 3.6 | 4.5 |
- Foreign direct investment, net inflows (% of GDP) | 3.4 | 2.9 | 2.7 |
- Invest. in infrastructure w/private participation ($ millions) | 1,061 | 5,854 | 26,166 |
- Disaster risk reduction progress score (1-5 scale; 5 = best) | .. | .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) | 46 | | |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | .. | .. | .. |
- Primary completion rate, total (% of relevant age group) | 90 | 88 | 98 |
- Ratio of girls to boys in primary & secondary school (%) | 103 | 93 | 103 |

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 2.4 | 3.8 | 5.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 329.2 | 604.6 | 659.4 |
- CO₂ emissions, total (MtCO₂) | 25.0 | 1,230 | 12,860 |
- GHG net emissions/removals by LUCF (1994, MtCO₂e) | -1.8 | | |
- Methane (CH₄) emissions, total (MtCO₂e) | 8.2 | 287 | 3,455 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 2.4 | 74 | 1,144 |
- Other GHG emissions, total (MtCO₂e) | 0.0 | 7 | 243 |
- Energy use per capita (kilograms of oil equivalent) | 881 | 1,399 | 1,848 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 117.4 | 213.9 | 227.1 |

### National-Level Actions
- Latest UNFCCC national communication | 10/27/2001 (1st) |
- Annex-I emissions reduction target | n/a |
- NAMA submission | Yes |
- NAPA submission | n/a |
- Renewable energy target | Yes |

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | 2 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
## Turkey

### Population (millions)

| Country data | Europe & Central Asia | Upper middle income |
|--------------|-----------------------|---------------------|
| 72.8         | 2.5                   | 1.8                 |

### Climate

| Country data | Europe & Central Asia | Upper middle income |
|--------------|-----------------------|---------------------|
| 5 / 17       | 1.9 to 2.9            | 3 / 6               |

### Exposure to Impacts

| Country data | Europe & Central Asia | Upper middle income |
|--------------|-----------------------|---------------------|
| 1.0          | 2.5                   | 1.8                 |

### Resilience

| Country data | Europe & Central Asia | Upper middle income |
|--------------|-----------------------|---------------------|
| 90           | 89                    | 68                  |

### GHG Emissions and Energy Use

| Country data | Europe & Central Asia | Upper middle income |
|--------------|-----------------------|---------------------|
| 4.0          | 7.7                   | 5.3                 |

## National-Level Actions

| Country data | Europe & Central Asia | Upper middle income |
|--------------|-----------------------|---------------------|
| 2/20/2007 (4th) | ..                  | ..                  |

## Carbon Markets

| Country data | Europe & Central Asia | Upper middle income |
|--------------|-----------------------|---------------------|
| n/a          | ..                    | ..                  |

## 2011 The Little Data Book on Climate Change
### Turkmenistan

#### Population (millions)
- Europe & Central Asia: 5.0
- Lower middle income: 5.6
- Total: 5.3

#### GDP ($ billions)
- Europe & Central Asia: 2.5
- Lower middle income: 3.0
- Total: 2.8

#### GNI per capita (Atlas $)
- Europe & Central Asia: 1.7
- Lower middle income: 6.5
- Total: 4.5

#### Population growth (avg. ann. %, 1990–2010)
- Europe & Central Asia: 1.6
- Lower middle income: 1.7
- Total: 1.6

#### Climate
- Average daily min/max temperature (1961–90, Celsius)
  - Europe & Central Asia: 9 / 22
  - Lower middle income: -2 / 32
  - Total: 1.8

- Projected annual temperature change (2045–65, Celsius)
  - Europe & Central Asia: 1.8 to 3.0
  - Lower middle income: -0.8 to 2.8
  - Total: -0.8 to 2.8

- Average annual precipitation (1961–90, mm)
  - Europe & Central Asia: 162
  - Lower middle income: 67.3
  - Total: 31.7

- Projected change in annual hot days/warm nights
  - Europe & Central Asia: 3 / 6
  - Lower middle income: -1 / -1

#### Exposure to Impacts

| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 5.3 | 2.5 | 1.7 |
| Population below 5m (% of total) | 5.6 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 18 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.1 | 0.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.0 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 1,831.6 | 6.5 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | 24.8 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 3.0 | 7.5 | 9.5 |
| Under-five mortality rate (per 1,000) | 56 | 23 | 69 |
| Child malnutrition, underweight (% of under age five) | 10.5 | .. | 31.7 |
| Malaria incidence rate (per 100,000 people) | 0 | .. | 4,874 |

#### Resilience

| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| Access to improved sanitation (% of total pop.) | 98 | 89 | 45 |
| Access to improved water source (% of total pop.) | 83 | 95 | 84 |
| Cereal yield (kg. per hectare) | 3,203 | 2,475 | 2,754 |
| Access to electricity (% of total population) | .. | .. | 67.3 |
| Paved roads (% of total roads) | 81.2 | 85.8 | 29.3 |
| Health workers (per 1,000 people) | 7.0 | 9.9 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 9.9 | 2.8 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 44 | 22,652 | 81,789 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | .. | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. | .. |
| Primary completion rate, total (% of relevant age group) | .. | 95 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | .. | 97 | 93 |

#### GHG Emissions and Energy Use

| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| CO₂ emissions per capita (metric tons) | 9.7 | 7.7 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 1,537.5 | 708.0 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 47.8 | 3,110 | 3,744 |
| GHG net emissions/removals by LUCF (2004, MtCO₂e) | -0.8 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 28.0 | 937 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 4.3 | 214 | 687 |
| Other GHG emissions, total (MtCO₂e) | 0.1 | 76 | 17 |
| Energy use per capita (kilograms of oil equivalent) | 3,933 | 2,833 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 593.2 | 276.8 | 217.9 |

#### National-Level Actions

| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| Latest UNFCCC national communication | 11/29/2010 (2nd) | .. | .. |
| Annex-I emissions reduction target | n/a | .. | .. |
| NAMA submission | .. | .. | .. |
| NAPA submission | n/a | .. | .. |
| Renewable energy target | .. | .. | .. |

#### Carbon Markets

| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| Hosted Clean Development Mechanism (CDM) projects | .. | .. | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | .. | .. |
| Hosted Joint Implementation (JI) projects | .. | .. | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. | .. |
## Turks and Caicos Islands

| Country data | High income |
|--------------|-------------|
| Population (thousands) | 38.4 | .. |
| GDP ($ millions) | .. | .. |
| GNI per capita (Atlas $) | .. | .. |

### Climate
- Average daily min/max temperature (1961–90, Celsius): 25 / 31
- Projected annual temperature change (2045–65, Celsius): 1.4 to 1.7
- Average annual precipitation (1961–90, mm): 3,035
- Projected annual precipitation change (2045–65, mm): -87 to 52
- Projected change in annual hot days/warm nights: 11 / 18
- Projected change in annual cool days/cold nights: -3 / -2

### Exposure to Impacts

| Exposure to Impacts | Country data | High income |
|---------------------|--------------|-------------|
| Land area below 5m (% of land area) | 53.3 | 2.2 |
| Population below 5m (% of total) | 53.3 | 7.7 |
| Population in urban agglomerations > 1 million (%) | .. | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | .. | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 42.9 |
| Nationally terrestrial protected areas (% of total land area) | .. | 13.4 |
| Under-five mortality rate (per 1,000) | .. | 6 |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

### Resilience

| Resilience | Country data | High income |
|------------|--------------|-------------|
| Access to improved sanitation (% of total pop.) | 96 | 100 |
| Access to improved water source (% of total pop.) | 100 | 100 |
| Cereal yield (kg. per hectare) | .. | 5,445 |
| Access to electricity (% of total population) | .. | .. |
| Paved roads (% of total roads) | .. | 87.3 |
| Health workers (per 1,000 people) | .. | 10.7 |
| Foreign direct investment, net inflows (% of GDP) | .. | 1.8 |
| Invest. in infrastructure w/private participation ($ millions) | .. | .. |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | 2.3 |
| Ease of doing business (ranking 1–183; 1 = best) | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. |
| Primary completion rate, total (% of relevant age group) | 92 | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 100 | 100 |

### GHG Emissions and Energy Use

| GHG Emissions and Energy Use | Country data | High income |
|-----------------------------|--------------|-------------|
| CO₂ emissions per capita (metric tons) | 4.4 | 11.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 354.4 |
| CO₂ emissions, total (MtCO₂) | 0.2 | 13,285 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | 1,539 |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 813 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 460 |
| Other GHG emissions, total (MtCO₂e) | .. | .. |
| Energy use per capita (kilograms of oil equivalent) | .. | 4,944 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 147.0 |

### National-Level Actions

| National-Level Actions | Country data | High income |
|------------------------|--------------|-------------|
| Latest UNFCCC national communication | n/a | .. |
| Annex-I emissions reduction target | n/a | .. |
| NAMA submission | n/a | .. |
| NAPA submission | n/a | .. |
| Renewable energy target | .. | .. |

### Carbon Markets

| Carbon Markets | Country data | High income |
|----------------|--------------|-------------|
| Hosted Clean Development Mechanism (CDM) projects | n/a | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a | .. |
| Hosted Joint Implementation (JI) projects | n/a | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | .. |
Population (thousands) 9.8  GDP ($ millions) 31.4  
Pop. growth (avg. ann. %, 1990-2010) 0.4  GNI per capita (Atlas $) 4,530

**Climate**

- Average daily min/max temperature (1961-90, Celsius) 25 / 31
- Projected annual temperature change (2045-65, Celsius) 1.4 to 1.9
- Average annual precipitation (1961-90, mm) 3,035
- Projected annual precipitation change (2045-65, mm) 9 to 651
- Projected change in annual hot days/warm nights 24 / 27
- Projected change in annual cool days/cold nights -3 / -3

**Exposure to Impacts**

| Country data | East Asia & Pacific | Lower middle income |
|--------------|---------------------|---------------------|
| Land area below 5m (% of land area) | 100.0 | 2.5 | 1.7 |
| Population below 5m (% of total) | 100.0 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | .. | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | .. | 3.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | .. | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.8 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.4 | 14.9 | 9.5 |
| Under-five mortality rate (per 1,000) | 33 | 24 | 69 |
| Child malnutrition, underweight (% of under age five) | 1.6 | 9.0 | 31.7 |
| Malnutrition incidence rate (per 100,000 people) | .. | 525 | 4,874 |

**Resilience**

- Access to improved sanitation (% of total pop.) 84 | 59 | 45 |
- Access to improved water source (% of total pop.) 97 | 88 | 84 |
- Cereal yield (kg, per hectare) .. | 4,860 | 2,754 |
- Access to electricity (% of total population) .. | 90.8 | 67.3 |
- Paved roads (% of total roads) .. | 15.9 | 29.3 |
- Health workers (per 1,000 people) 6.5 | 2.8 | 2.6 |
- Foreign direct investment, net inflows (% of GDP) 4.8 | 3.0 | 2.4 |
- Invest. in infrastructure w/private participation ($ millions) .. | 14,638 | 81,789 |
- Disaster risk reduction progress score (1-5 scale; 5 = best) .. | .. | .. |
- Ease of doing business (ranking 1-183; 1 = best) .. | .. | .. |
- Public sector mgmt & institutions avg. (1-6 scale; 6 = best) .. | .. | .. |
- Primary completion rate, total (% of relevant age group) 99 | 97 | 88 |
- Ratio of girls to boys in primary & secondary school (%) 112 | 103 | 93 |

**GHG Emissions and Energy Use**

|                      | Country data | East Asia & Pacific | Lower middle income |
|----------------------|--------------|---------------------|---------------------|
| CO2 emissions per capita (metric tons) | .. | 4.3 | 1.6 |
| CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 827.1 | 523.9 |
| CO2 emissions, total (MtCO2) | .. | 8,259 | 3,744 |
| GHG net emissions/removals by LUCF (MtCO2e) | .. | 1,928 | 1,705 |
| Methane (CH4) emissions, total (MtCO2e) | .. | 707 | 687 |
| Nitrous oxide (N2O) emissions, total (MtCO2e) | .. | .. | .. |
| Other GHG emissions, total (MtCO2e) | .. | .. | .. |
| Energy use per capita (kilograms of oil equivalent) | .. | 1,436 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 259.5 | 217.9 |

**National-Level Actions**

- Latest UNFCCC national communication 10/30/1999 (1st)
- Annex-I emissions reduction target n/a
- NAMA submission ..
- NAPA submission Yes
- Renewable energy target ..

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects ..
- Issued Certified Emission Reductions (CERs) from CDM (thousands) ..
- Hosted Joint Implementation (JI) projects n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Uganda

| Data Category | Value |
|--------------|-------|
| Population (millions) | 33.4 |
| GDP ($ billions) | 17.0 |
| Pop. growth (avg. ann. %, 1990–2010) | 3.2 |
| GNI per capita (Atlas $) | 500 |

#### Climate
- Average daily min/max temperature (1961–90, Celsius) | 17 / 29
- Projected annual temperature change (2045–65, Celsius) | 2.1 to 2.3
- Average annual precipitation (1961–90, mm) | 1,180
- Projected annual precipitation change (2045–65, mm) | -13 to 224
- Projected change in annual hot days/warm nights | 6 / 26
- Projected change in annual cool days/cold nights | -2 / -3

#### Exposure to Impacts

| Country | Sub-Saharan Africa | Low income |
|---------|-------------------|------------|
| Land area below 5m (% of land area) | 0.0 | 0.4 | 0.7 |
| Population below 5m (% of total) | 0.0 | 2.0 | 5.1 |
| Population in urban agglomerations > 1 million (%) | 5 | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.1 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.9 |  |  |
| Annual freshwater withdrawals (% of internal resources) | 0.8 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) |  |  |  |
| Population living below $1.25 a day (% of total) | 37.7 | 50.9 |  |
| Nationally terrestrial protected areas (% of total land area) | 9.7 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 99 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 16.4 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 36,233 | 26,113 | 16,859 |

#### Resilience
- Access to improved sanitation (% of total pop.) | 48 | 31 | 35 |
- Access to improved water source (% of total pop.) | 67 | 60 | 63 |
- Cereal yield (kg. per hectare) | 1,539 | 1,297 | 2,047 |
- Access to electricity (% of total population) | 9.0 | 32.5 | 23.0 |
- Paved roads (% of total roads) | 23.0 | 18.3 | 14.1 |
- Health workers (per 1,000 people) | 1.4 | 1.2 | 0.7 |
- Foreign direct investment, net inflows (% of GDP) | 4.8 | 3.6 | 3.2 |
- Invest. in infrastructure w/private participation ($ millions) | 257 | 11,957 | 4,471 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) |  |  |  |
- Ease of doing business (ranking 1–183; 1 = best) | 123 |  |  |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 3.2 |  |  |
- Primary completion rate, total (% of relevant age group) | 73 | 67 | 65 |
- Ratio of girls to boys in primary & secondary school (%) | 99 | 89 | 91 |

#### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) | 0.1 | 0.8 | 0.3 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 110.8 | 428.6 | 270.2 |
- CO₂ emissions, total (MtCO₂) | 3.7 | 685 | 219 |
- GHG net emissions/removals by LUCF (1994, MtCO₂e) | 8.3 |  |  |
- Methane (CH₄) emissions, total (MtCO₂e) |  | 590 | 436 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) |  | 334 | 209 |
- Other GHG emissions, total (MtCO₂e) |  |  |  |
- Energy use per capita (kilograms of oil equivalent) |  | 689 | 365 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) |  | 308.4 | 303.9 |

#### National-Level Actions
- Latest UNFCCC national communication | 10/26/2002 (1st) |
- Annex-I emissions reduction target | n/a |
- NAMA submission |  |
- NAPA submission | Yes |
- Renewable energy target | Yes |

#### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects | 5 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | 0 |
- Hosted Joint Implementation (JI) projects | n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
**Ukraine**

| Population (millions) | 45.9 | GDP ($ billions) | 137.9 | GNI per capita (Atlas $) | 3,010 |
|-----------------------|------|-----------------|-------|--------------------------|-------|
| Pop. growth (avg. ann. %, 1990–2010) | -0.6 |                 |       |                          |       |

**Climate**

- Average daily min/max temperature (1961–90, Celsius) | 4 / 13
- Projected annual temperature change (2045–65, Celsius) | 2.1 to 3.0
- Average annual precipitation (1961–90, mm) | 565
- Projected annual precipitation change (2045–65, mm) | -43 to 31
- Projected change in annual hot days/warm nights | 3 / 5
- Projected change in annual cool days/cold nights | -1 / -2

**Exposure to Impacts**

| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 1.5 | 2.5 | 1.7 |
| Population below 5m (% of total) | 2.1 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 14 | 18 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | -0.5 | 0.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.3 |       |       |
| Annual freshwater withdrawals (% of internal resources) | 72.5 | 6.5 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | 5.3 |       |       |
| Population living below $1.25 a day (% of total) | <2 | 3.7 |       |
| Nationally terrestrial protected areas (% of total land area) | 3.5 | 7.5 | 9.5 |
| Under-five mortality rate (per 1,000) | 13 | 23 | 69 |
| Child malnutrition, underweight (% of under age five) | 0.9 |       | 31.7 |
| Malaria incidence rate (per 100,000 people) |       |       | 4,874 |

**Resilience**

- Access to improved sanitation (% of total pop.) | 95 | 89 | 45 |
- Access to improved water source (% of total pop.) | 98 | 95 | 84 |
- Cereal yield (kg. per hectare) | 3,004 | 2,475 | 2,754 |
- Access to electricity (% of total population) |       |       | 67.3 |
- Paved roads (% of total roads) | 97.8 | 85.8 | 29.3 |
- Health workers (per 1,000 people) | 11.6 | 9.9 | 2.6 |
- Foreign direct investment, net inflows (% of GDP) | 4.7 | 2.8 | 2.4 |
- Invest. in infrastructure w/private participation ($ millions) | 423 | 22,652 | 81,789 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) |       |       |       |
- Ease of doing business (ranking 1–183; 1 = best) | 152 |       |       |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) |       |       |       |
- Primary completion rate, total (% of relevant age group) | 95 | 95 | 88 |
- Ratio of girls to boys in primary & secondary school (%) | 99 | 97 | 93 |

**GHG Emissions and Energy Use**

- CO₂ emissions per capita (metric tons) | 7.0 | 7.7 | 1.6 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 1,040.6 | 708.0 | 523.9 |
- CO₂ emissions, total (MtCO₂) | 323.5 | 3,110 | 3,744 |
- GHG net emissions/removals by LUCF (2009, MtCO₂e) | -19.2 |       |       |
- Methane (CH₄) emissions, total (MtCO₂e) | 70.4 | 937 | 1,705 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 26.1 | 214 | 687 |
- Other GHG emissions, total (MtCO₂e) | 0.7 | 76 | 17 |
- Energy use per capita (kilograms of oil equivalent) | 2,507 | 2,833 | 680 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 435.9 | 276.8 | 217.9 |

**National-Level Actions**

- Latest UNFCCC national communication | 2/8/2010 (5th) |
- Annex-I emissions reduction target (base year: 1990) | 20% |
- NAMA submission | n/a |
- NAPA submission | n/a |
- Renewable energy target |       |

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects | n/a |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
- Hosted Joint Implementation (JI) projects | 80 |
- Issued Emission Reduction Units (ERUs) from JI (thousands) | 39,780 |
United Arab Emirates

Population (millions) 7.5  GDP ($ billions)  230.3
Pop. growth (avg. ann. %, 1990–2010) 7.1  GNI per capita (Atlas $) ..

Climate
Average daily min/max temperature (1961–90, Celsius) 21 / 33
Projected annual temperature change (2045–65, Celsius) 2.2 to 2.8
Average annual precipitation (1961–90, mm) 78
Projected annual precipitation change (2045–65, mm) -26 to 17
Projected change in annual hot days/warm nights 4 / 9
Projected change in annual cool days/cold nights -2 / -2

Exposure to Impacts
Country data High income
Land area below 5m (% of land area) 4.6  2.2
Population below 5m (% of total) 7.3  7.7
Population in urban agglomerations > 1 million (%) 21  ..
Urban pop. growth (avg. annual %, 1990–2010) 7.0  1.0
Droughts, floods, extreme temps (% pop. avg., 1990–2009) ..
Annual freshwater withdrawals (% of internal resources) 2,032.0  10.4
Agricultural land under irrigation (% of total ag. land) ..  ..
Population living below $1.25 a day (% of total) ..  5.6  13.4
Under-five mortality rate (per 1,000) 7  6
Child malnutrition, underweight (% of under age five) ..  ..
Malaria incidence rate (per 100,000 people) ..  ..

Resilience
Access to improved sanitation (% of total pop.) 97  100
Access to improved water source (% of total pop.) 100  100
Cereal yield (kg. per hectare) 3,000  5,445
Access to electricity (% of total population) 100.0  ..
Paved roads (% of total roads) 100.0  87.3
Health workers (per 1,000 people) 6.0  10.7
Foreign direct investment, net inflows (% of GDP) 1.7  1.8
Invest. in infrastructure w/private participation ($ millions) ..  ..
Disaster risk reduction progress score (1–5 scale; 5 = best) 33  ..
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) ..  ..
Primary completion rate, total (% of relevant age group) 99  97
Ratio of girls to boys in primary & secondary school (%) 100  100

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 25.0  11.9
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 638.6  354.4
CO₂ emissions, total (MtCO₂) 155.1  13,285
GHG net emissions/removals by LUCF (2000, MtCO₂e) -9.7
Methane (CH₄) emissions, total (MtCO₂e) 23.3  1,539
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 1.2  813
Other GHG emissions, total (MtCO₂e) 1.1  460
Energy use per capita (kilograms of oil equivalent) 8,588  4,944
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 247.1  147.0

National-Level Actions
Latest UNFCCC national communication 4/7/2010 (2nd)
Annex-I emissions reduction target n/a
NAMA submission ..
NAPA submission n/a
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 5
Issued Certified Emission Reductions (CERs) from CDM (thousands) 80
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
Population (millions) 62.2 GDP ($ billions) 2,246.1
Pop. growth (avg. ann. %, 1990–2010) 0.4 GNI per capita (Atlas $) 38,560

Climate
Average daily min/max temperature (1961–90, Celsius) 5 / 12
Projected annual temperature change (2045–65, Celsius) 1.1 to 1.8
Average annual precipitation (1961–90, mm) 1,220
Projected annual precipitation change (2045–65, mm) −10 to 66
Projected change in annual hot days/warm nights 3 / 5
Projected change in annual cool days/cold nights −1 / −2

Exposure to Impacts
Land area below 5m (% of land area) 7.6 2.2
Population below 5m (% of total) 8.6 7.7
Population in urban agglomerations > 1 million (%) 26 ..
Urban pop. growth (avg. %, 1990–2010) 0.5 1.0
Droughts, floods, extreme temps (% pop. avg., 1990–2009) 0.0 0.0
Annual freshwater withdrawals (% of internal resources) 10.0 10.4
Agricultural land under irrigation (% of total) .. ..
Population living below $1.25 a day (% of total) 24.4 13.4
Under-five mortality rate (per 1,000) 5 6
Child malnutrition, underweight (% of under age five) .. ..
Malaria incidence rate (per 100,000 people) .. ..

Resilience
Access to improved sanitation (% of total pop.) 100 100
Access to improved water source (% of total pop.) 100 100
Cereal yield (kg. per hectare) 7,072 5,445
Access to electricity (% of total population) .. ..
Paved roads (% of total roads) 100.0 87.3
Health workers (per 1,000 people) 13.0 10.7
Foreign direct investment, net inflows (% of GDP) 2.1 1.8
Invest. in infrastructure w/private participation ($ millions) .. ..
Disaster risk reduction progress score (1–5 scale; 5 = best) .. ..
Ease of doing business (ranking 1–183; 1 = best) 7 ..
Public sector mgnt & institutions avg. (1–6 scale; 6 = best) .. ..
Primary completion rate, total (% of relevant age group) .. 97
Ratio of girls to boys in primary & secondary school (%) 101 100

GHG Emissions and Energy Use
CO₂ emissions per capita (metric tons) 8.5 11.9
CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 251.5 354.4
CO₂ emissions, total (MtCO₂) 522.9 13,285
GHG net emissions/removals by LUCF (2009, MtCO₂e) −4.1 1,220
Methane (CH₄) emissions, total (MtCO₂e) 65.8 1,539
Nitrous oxide (N₂O) emissions, total (MtCO₂e) 30.6 813
Other GHG emissions, total (MtCO₂e) 10.4 460
Energy use per capita (kilograms of oil equivalent) 3,283 4,944
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 102.0 147.0

National-Level Actions
Latest UNFCCC national communication 6/12/2009 (5th)
Annex-I emissions reduction target (base year: 1990) 20% / 30% (EU)
NAMA submission n/a
NAPA submission n/a
Renewable energy target Yes

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects n/a
Issued Certified Emission Reductions (CERs) from CDM (thousands) n/a
Hosted Joint Implementation (JI) projects .. ..
Issued Emission Reduction Units (ERUs) from JI (thousands) .. ..
**United States**

| Population (millions) | 309.1 | GDP ($ billions) | 14,582.4 |
|------------------------|-------|----------------|-----------|
| Pop. growth (avg. ann. %, 1990–2010) | 1.1 | GNI per capita (Atlas $) | 47,240 |

**Climate**
- Average daily min/max temperature (1961–90, Celsius) 2 / 15
- Projected annual temperature change (2045–65, Celsius) 2.0 to 3.0
- Average annual precipitation (1961–90, mm) 736
- Projected annual precipitation change (2045–65, mm) -26 to 98
- Projected change in annual hot days/warm nights 3 / 6
- Projected change in annual cool days/cold nights -1 / -1

**Exposure to Impacts**

| Country data | High income |
|--------------|-------------|
| Land area below 5m (% of land area) | 1.7 | 2.2 |
| Population below 5m (% of total) | 4.1 | 7.7 |
| Population in urban agglomerations > 1 million (%) | 45 | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.5 | 1.0 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.2 | .. |
| Annual freshwater withdrawals (% of internal resources) | 17.0 | 10.4 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. |
| Population living below $1.25 a day (% of total) | 14.8 | 14.8 |
| Nationally terrestrial protected areas (% of total land area) | 8 | 6 |
| Under-five mortality rate (per 1,000) | 1.3 | .. |
| Child malnutrition, underweight (% of under age five) | .. | .. |
| Malaria incidence rate (per 100,000 people) | .. | .. |

**Resilience**

| | |
| Access to improved sanitation (% of total pop.) | 100 |
| Access to improved water source (% of total pop.) | 99 |
| Cereal yield (kg. per hectare) | 7,238 |
| Access to electricity (% of total population) | 67.4 |
| Paved roads (% of total roads) | 9.8 |
| Health workers (per 1,000 people) | 1.6 |
| Foreign direct investment, net inflows (% of GDP) | 1.0 |
| Invest. in infrastructure w/private participation ($ millions) | 100 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 3.5 |
| Ease of doing business (ranking 1–183; 1 = best) | 4 |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 96 |
| Primary completion rate, total (% of relevant age group) | 97 |
| Ratio of girls to boys in primary & secondary school (%) | 101 |

**GHG Emissions and Energy Use**

| | |
| CO₂ emissions per capita (metric tons) | 17.9 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 414.8 |
| CO₂ emissions, total (MtCO₂) | 5,461.0 |
| GHG net emissions/removals by LUCF (2009, MtCO₂e) | -990.1 |
| Methane (CH₄) emissions, total (MtCO₂e) | 548.1 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 317.2 |
| Other GHG emissions, total (MtCO₂e) | 239.5 |
| Energy use per capita (kilograms of oil equivalent) | 7,232 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 169.6 |

**National-Level Actions**

| Latest UNFCCC national communication | 5/28/2010 (5th) |
| Annex-I emissions reduction target (base year: 2005) | 17% |
| NAMA submission | n/a |
| NAPA submission | n/a |
| Renewable energy target | .. |

**Carbon Markets**

| Hosted Clean Development Mechanism (CDM) projects | n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
| Hosted Joint Implementation (JI) projects | .. |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | .. |

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## Uruguay

**Population (millions)** 3.4  
**GDP ($ billions)** 40.3  
**Pop. growth (avg. ann. %, 1990–2010)** 0.4  
**GNI per capita (Atlas)$** 10,590

### Climate
- Average daily min/max temperature (1961–90, Celsius) 12 / 23  
- Projected annual temperature change (2045–65, Celsius) 1.4 to 1.8  
- Average annual precipitation (1961–90, mm) 1,265  
- Projected annual precipitation change (2045–65, mm) 0 to 130  
- Projected change in annual hot days/warm nights 2 / 6  
- Projected change in annual cool days/cold nights -1 / -1

### Exposure to Impacts

| Country | Latin America & the Carib. | Upper middle income |
|---------|-----------------------------|---------------------|
| Land area below 5m (% of land area) | 1.9 | 1.5 | 1.8 |
| Population below 5m (% of total) | 4.7 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 49 | 35 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.6 | 2.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.3 | | |
| Annual freshwater withdrawals (% of internal resources) | 5.3 | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | 1.2 | | |
| Population living below $1.25 a day (% of total) | <2 | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.3 | 20.8 | 13.6 |
| Under-five mortality rate (per 1,000) | 11 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 6.0 | 3.8 | 4.1 |
| Malaria incidence rate (per 100,000 people) | .. | 206 | 80 |

### Resilience
- Access to improved sanitation (% of total pop.) 100  
- Access to improved water source (% of total pop.) 100  
- Cereal yield (kg, per hectare) 4,045  
- Access to electricity (% of total pop.) 100  
- Paved roads (% of total roads) ..  
- Health workers (per 1,000 people) 9.3  
- Foreign direct investment, net inflows (% of GDP) 4.0  
- Invest. in infrastructure w/private participation ($ millions) 42  
- Disaster risk reduction progress score (1–5 scale; 5 = best) ..  
- Ease of doing business (ranking 1–183; 1 = best) 90  
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) ..  
- Primary completion rate, total (% of relevant age group) 106  
- Ratio of girls to boys in primary & secondary school (%) 104

### GHG Emissions and Energy Use
- CO₂ emissions per capita (metric tons) 2.5  
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 214.0  
- CO₂ emissions, total (MtCO₂) 8.3  
- GHG net emissions/removals by LUCF (2004, MtCO₂e) –10.3  
- Methane (CH₄) emissions, total (MtCO₂e) 19.6  
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) 7.0  
- Other GHG emissions, total (MtCO₂e) 0.1  
- Energy use per capita (kilograms of oil equivalent) 1,224  
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 102.5

### National-Level Actions
- Latest UNFCCC national communication 11/18/2010 (3rd)  
- Annex-I emissions reduction target n/a  
- NAMA submission ..  
- NAPA submission n/a  
- Renewable energy target ..

### Carbon Markets
- Hosted Clean Development Mechanism (CDM) projects 6  
- Issued Certified Emission Reductions (CERs) from CDM (thousands) 41  
- Hosted Joint Implementation (JI) projects n/a  
- Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
Uzbekistan

Population (millions) 28.2  GDP ($ billions) 39.0
Pop. growth (avg. ann. %, 1990–2010) 1.6  GNI per capita (Atlas $) 1,280

Climate
Average daily min/max temperature (1961–90, Celsius) 6 / 18
Projected annual temperature change (2045–65, Celsius) 2.0 to 3.0
Average annual precipitation (1961–90, mm) 206
Projected annual precipitation change (2045–65, mm) -26 to 17
Projected change in annual hot days/warm nights 3 / 6
Projected change in annual cool days/cold nights -1 / -1

Exposure to Impacts

| Country data | Europe & Central Asia | Lower middle income |
|--------------|-----------------------|---------------------|
| Land area below 5m (% of land area) | 0.1 | 2.5 | 1.7 |
| Population below 5m (% of total) | 0.0 | 3.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 8 | 18 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 1.2 | 0.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.1 | | |
| Annual freshwater withdrawals (% of internal resources) | 364.8 | 6.5 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | | | |
| Population living below $1.25 a day (% of total) | 46.3 | 3.7 | .. |
| Nationally terrestrial protected areas (% of total land area) | 2.3 | 7.5 | 9.5 |
| Under-five mortality rate (per 1,000) | 52 | 23 | 69 |
| Child malnutrition, underweight (% of under age five) | 4.4 | | 31.7 |
| Malaria incidence rate (per 100,000 people) | 0 | | 4,874 |

Resilience
Access to improved sanitation (% of total pop.) 100 89 45
Access to improved water source (% of total pop.) 87 95 84
Cereal yield (kg. per hectare) 4,269 2,475 2,754
Access to electricity (% of total population) .. .. 67.3
Paved roads (% of total roads) 87.3 85.8 29.3
Health workers (per 1,000 people) 13.4 9.9 2.6
Foreign direct investment, net inflows (% of GDP) 2.1 2.8 2.4
Invest. in infrastructure w/private participation ($ millions) 644 22,652 81,789
Disaster risk reduction progress score (1–5 scale; 5 = best) .. .. |
Ease of doing business (ranking 1–183; 1 = best) 166
Public sector mgmt & institutions avg. (1–6 scale; 6 = best) 2.8
Primary completion rate, total (% of relevant age group) 92 95 88
Ratio of girls to boys in primary & secondary school (%) 99 97 93

GHG Emissions and Energy Use
CO2 emissions per capita (metric tons) 4.6 7.7 1.6
CO2 emissions per units of GDP (kg/$1,000 of 2005 PPP $) 1,862.7 708.0 523.9
CO2 emissions, total (MtCO2) 124.9 3,110 3,744
GHG net emissions/removals by LUCF (2005, MtCO2e) 0.4
Methane (CH4) emissions, total (MtCO2e) 39.6 937 1,705
Nitrous oxide (N2O) emissions, total (MtCO2e) 10.0 214 687
Other GHG emissions, total (MtCO2e) 0.6 76 17
Energy use per capita (kilograms of oil equivalent) 1,758 2,833 680
Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 673.3 276.8 217.9

National-Level Actions
Latest UNFCCC national communication 12/3/2008 (2nd)
Annex-I emissions reduction target n/a
NAMA submission n/a
NAPA submission n/a
Renewable energy target ..

Carbon Markets
Hosted Clean Development Mechanism (CDM) projects 11
Issued Certified Emission Reductions (CERs) from CDM (thousands) 0
Hosted Joint Implementation (JI) projects n/a
Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Exposures to Impacts

| Country data | East Asia & Pacific | Lower middle income |
|--------------|---------------------|---------------------|
| Land area below 5m (% of land area) | 11.7 | 2.5 | 1.7 |
| Population below 5m (% of total) | 10.8 | 10.3 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | .. | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.0 | 3.3 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.1 | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | .. | 10.8 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 16.8 | .. |
| Nationally terrestrial protected areas (% of total land area) | 4.3 | 14.9 | 9.5 |
| Under-five mortality rate (per 1,000) | 14 | 24 | 69 |
| Child malnutrition, underweight (% of under age five) | 11.7 | 9.0 | 31.7 |
| Malania incidence rate (per 100,000 people) | 6,036 | 525 | 4,874 |

### Resilience

| Access to improved sanitation (% of total pop.) | 52 | 59 | 45 |
| Access to improved water source (% of total pop.) | 83 | 88 | 84 |
| Cereal yield (kg. per hectare) | 565 | 4,860 | 2,754 |
| Access to electricity (% of total population) | .. | 90.8 | 67.3 |
| Paved roads (% of total roads) | 23.9 | 15.9 | 29.3 |
| Health workers (per 1,000 people) | 1.8 | 2.8 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 5.3 | 3.0 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 35 | 14,638 | 81,789 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 2.0 | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 76 | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | 3.4 | .. | .. |
| Primary completion rate, total (% of relevant age group) | 83 | 97 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 100 | 103 | 93 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita in metric tons | 0.4 | 4.3 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 98.7 | 827.1 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 0.1 | 8,259 | 3,744 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | 0.0 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 1,928 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 707 | 687 |
| Other GHG emissions, total (MtCO₂e) | .. | .. | 17 |
| Energy use per capita (kilograms of oil equivalent) | 157 | 1,436 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 40.1 | 259.5 | 217.9 |

### National-Level Actions

| Latest UNFCCC national communication | 10/30/1999 (1st) |
| Annex-I emissions reduction target | n/a |
| NAMA submission | .. |
| NAPA submission | Yes |
| Renewable energy target | .. |

### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | .. |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. |
| Hosted Joint Implementation (JI) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
### Exposure to Impacts

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|-----------------------------|---------------------|
| Land area below 5m (% of land area) | 2.3 | 1.5 | 1.8 |
| Population below 5m (% of total) | 3.7 | 3.8 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 32 | 35 | 22 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.4 | 2.0 | 2.3 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 0.2 | | |
| Annual freshwater withdrawals (% of internal resources) | 1.3 | 2.0 | 5.6 |
| Agricultural land under irrigation (% of total ag. land) | | | |
| Population living below $1.25 a day (% of total) | 3.0 | 8.1 | .. |
| Nationally terrestrial protected areas (% of total land area) | 53.7 | 20.8 | 13.6 |
| Under-five mortality rate (per 1,000) | 18 | 23 | 20 |
| Child malnutrition, underweight (% of under age five) | 3.7 | 3.8 | 4.1 |
| Malara incidence rate (per 100,000 people) | 263 | 206 | 80 |

### Resilience

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|-----------------------------|---------------------|
| Access to improved sanitation (% of total pop.) | 91 | 79 | 68 |
| Access to improved water source (% of total pop.) | 93 | 93 | 92 |
| Cereal yield (kg. per hectare) | 3,695 | 3,337 | 3,690 |
| Access to electricity (% of total population) | 99.0 | 93.4 | 98.0 |
| Paved roads (% of total roads) | 33.6 | 28.1 | 50.5 |
| Health workers (per 1,000 people) | 3.1 | 6.9 | 4.5 |
| Foreign direct investment, net inflows (% of GDP) | -0.4 | 2.3 | 2.7 |
| Invest. in infrastructure w/private participation ($ millions) | 423 | 33,064 | 26,166 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | 2.8 | | |
| Ease of doing business (ranking 1–183; 1 = best) | 177 | | |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | | | |
| Primary completion rate, total (% of relevant age group) | 95 | 102 | 98 |
| Ratio of girls to boys in primary & secondary school (%) | 102 | 102 | 103 |

### GHG Emissions and Energy Use

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|-----------------------------|---------------------|
| CO₂ emissions per capita (metric tons) | 6.1 | 2.8 | 5.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 516.2 | 285.6 | 659.4 |
| CO₂ emissions, total (MtCO₂) | 169.5 | 1,584 | 12,860 |
| GHG net emissions/removals by LUCF (1999, MtCO₂e) | -14.3 | | |
| Methane (CH₄) emissions, total (MtCO₂e) | 61.2 | 1,009 | 3,455 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 14.9 | 442 | 1,144 |
| Other GHG emissions, total (MtCO₂e) | 2.5 | 21 | 243 |
| Energy use per capita (kilograms of oil equivalent) | 2,357 | 1,245 | 1,848 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | 210.6 | 130.6 | 227.1 |

### National-Level Actions

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|-----------------------------|---------------------|
| Latest UNFCCC national communication | 10/13/2005 (1st) | | |
| Annex-I emissions reduction target | n/a | | |
| NAMA submission | .. | | |
| NAPA submission | n/a | | |
| Renewable energy target | .. | | |

### Carbon Markets

| Country data | Latin America & the Carib. | Upper middle income |
|--------------|-----------------------------|---------------------|
| Hosted Clean Development Mechanism (CDM) projects | .. | | |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | .. | | |
| Hosted Joint Implementation (JI) projects | n/a | | |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a | | |
### Vietnam

| Country data | East Asia & Pacific | Lower middle income |
|--------------|---------------------|---------------------|
| Population (millions) | 86.9 | GDP ($) billions | 103.6 |
| Pop. growth (avg. ann. %, 1990-2010) | 1.4 | GNI per capita (Atlas $) | 1,110 |

#### Climate
- **Average daily min/max temperature (1961-90, Celsius)**: 21 / 28
- **Projected annual temperature change (2045-65, Celsius)**: 1.4 to 2.1
- **Average annual precipitation (1961-90, mm)**: 1,821
- **Projected annual precipitation change (2045-65, mm)**: -107 to 61
- **Projected change in annual hot days/warm nights**: 6 / 14
- **Projected change in annual cool days/cold nights**: -1 / -1

#### Exposure to Impacts

| Land area below 5m (% of land area) | Population below 5m (% of total) | Population in urban agglomerations > 1 million (%) | Urban pop. growth (avg. annual %, 1990-2010) | Droughts, floods, extreme temps (% pop. avg., 1990-2009) | Annual freshwater withdrawals (% of internal resources) | Agricultural land under irrigation (% of total ag. land) | Population living below $1.25 a day (% of total) | Nationally terrestrial protected areas (% of total land area) | Under-five mortality rate (per 1,000) | Child malnutrition, underweight (% of under age five) | Malaria incidence rate (per 100,000 people) |
|------------------------------------|----------------------------------|-----------------------------------------------|---------------------------------------------|------------------------------------------------|-------------------------------------------------|-------------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| 17.5                               | 42.8                             | 6.5                                           | 3.1                                         | 1.6                                           | 22.8                                            | 10.8                                            | 18.7                                         | 13.1                                           | 16.8                                           | 14.9                                           | 9.5                                           |
| 2.5                                | 10.3                             | 6.5                                           | 3.3                                         | 2.8                                           | 10.8                                            | 10.8                                            | 18.7                                         | 14.9                                           | 6.5                                           | 9.0                                            | 31.7                                          |
| 1.7                                | 6.5                              | 6.5                                           | 2.8                                         | 2.8                                           | 16.8                                            | 6.5                                            | 18.7                                         | 2.8                                           | 2.8                                           | 2.8                                            | 2.8                                           |
| 45                                 | 84                               | 84                                            | 84                                          | 84                                            | 45                                              | 84                                              | 84                                          | 84                                            | 84                                            | 84                                              | 84                                            |
| 2.754                              | 4,860                            | 2,754                                         | 673                                         | 29.3                                          | 22.8                                            | 10.8                                            | 18.7                                         | 14.9                                           | 6.5                                           | 9.0                                            | 31.7                                          |

#### Resilience
- **Access to improved sanitation (% of total pop.)**: 75%
- **Access to improved water source (% of total pop.)**: 94%
- **Cereal yield (kg. per hectare)**: 5,075
- **Access to electricity (% of total population)**: 47.6%
- **Paved roads (% of total roads)**: 2.2%
- **Health workers (per 1,000 people)**: 7.7
- **Foreign direct investment, net inflows (% of GDP)**: 155
- **Invest. in infrastructure w/private participation ($ millions)**: 14,638
- **Disaster risk reduction progress score (1-5 scale; 5 = best)**: 98
- **Ease of doing business (ranking 1-183; 1 = best)**: 3.6
- **Public sector mgmt & institutions avg. (1-6 scale; 6 = best)**: 93
- **Ratio of girls to boys in primary & secondary school (%)**: 102
- **Primary completion rate, total (% of relevant age group)**: 93

#### GHG Emissions and Energy Use
- **CO₂ emissions per capita (metric tons)**: 1.5
- **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $)**: 573.2
- **CO₂ emissions, total (MtCO₂)**: 127.4
- **GHG net emissions/removals by LUCF (2000, MtCO₂e)**: 15.1
- **Methane (CH₄) emissions, total (MtCO₂e)**: 83.0
- **Nitrous oxide (N₂O) emissions, total (MtCO₂e)**: 23.0
- **Other GHG emissions, total (MtCO₂e)**: 0.0
- **Energy use per capita (kilograms of oil equivalent)**: 775
- **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $)**: 273.7

#### National-Level Actions
- **Latest UNFCCC national communication**: 12/7/2010 (2nd)
- **Annex-I emissions reduction target**: n/a
- **NAMA submission**: n/a
- **NAPA submission**: n/a
- **Renewable energy target**: Yes

#### Carbon Markets
- **Hosted Clean Development Mechanism (CDM) projects**: 78
- **Issued Certified Emission Reductions (CERs) from CDM (thousands)**: 6,646
- **Hosted Joint Implementation (JI) projects**: n/a
- **Issued Emission Reduction Units (ERUs) from JI (thousands)**: n/a
### Virgin Islands (U.S.)

| Country data | High income |
|--------------|-------------|
| Population (thousands) | 109.8 |
| GDP ($ millions) | .. |
| Pop. growth (avg. ann. %, 1990–2010) | 0.3 |
| GNI per capita (Atlas $) | .. |

### Climate

- **Average daily min/max temperature (1961–90, Celsius):** 22 / 30
- **Projected annual temperature change (2045–65, Celsius):** 1.3 to 1.7
- **Average annual precipitation (1961–90, mm):** 2,263
- **Projected annual precipitation change (2045–65, mm):** -116 to 44
- **Projected change in annual hot days/warm nights:** 12 / 23
- **Projected change in annual cool days/cold nights:** -3 / -3

### Exposure to Impacts

| Land area below 5m (% of land area) | 31.0 |
| Population below 5m (% of total) | 21.9 |
| Population in urban agglomerations > 1 million (%) | .. |
| Urban pop. growth (avg. annual %, 1990–2010) | 0.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. |
| Annual freshwater withdrawals (% of internal resources) | .. |
| Agricultural land under irrigation (% of total ag. land) | .. |
| Population living below $1.25 a day (% of total) | .. |
| Nationally terrestrial protected areas (% of total land area) | 15.2 |
| Under-five mortality rate (per 1,000) | .. |
| Child malnutrition, underweight (% of under age five) | .. |
| Malaria incidence rate (per 100,000 people) | .. |

### Resilience

- **Access to improved sanitation (% of total pop.):** .. 100
- **Access to improved water source (% of total pop.):** .. 100
- **Cereal yield (kg. per hectare):** .. 5,445
- **Access to electricity (% of total population):** ..
- **Paved roads (% of total roads):** .. 87.3
- **Health workers (per 1,000 people):** .. 10.7
- **Foreign direct investment, net inflows (% of GDP):** .. 1.8
- **Invest. in infrastructure w/private participation ($ millions):** ..
- **Disaster risk reduction progress score (1–5 scale; 5 = best):** ..
- **Ease of doing business (ranking 1–183; 1 = best):** ..
- **Public sector mgmt & institutions avg. (1–6 scale; 6 = best):** ..
- **Primary completion rate, total (% of relevant age group):** .. 97
- **Ratio of girls to boys in primary & secondary school (%):** .. 100

### GHG Emissions and Energy Use

- **CO₂ emissions per capita (metric tons):** .. 11.9
- **CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $):** .. 354.4
- **CO₂ emissions, total (MtCO₂):** .. 13,285
- **GHG net emissions/removals by LUCF (MtCO₂e):** ..
- **Methane (CH₄) emissions, total (MtCO₂e):** .. 1,539
- **Nitrous oxide (N₂O) emissions, total (MtCO₂e):** .. 813
- **Other GHG emissions, total (MtCO₂e):** .. 460
- **Energy use per capita (kilograms of oil equivalent):** .. 4,944
- **Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $):** .. 147.0

### National-Level Actions

- **Latest UNFCCC national communication:** n/a
- **Annex-I emissions reduction target:** n/a
- **NAMA submission:** n/a
- **NAPA submission:** n/a
- **Renewable energy target:** ..

### Carbon Markets

- **Hosted Clean Development Mechanism (CDM) projects:** n/a
- **Issued Certified Emission Reductions (CERs) from CDM (thousands):** n/a
- **Hosted Joint Implementation (JI) projects:** n/a
- **Issued Emission Reduction Units (ERUs) from JI (thousands):** n/a
### Exposure to Impacts

| Country data | Middle East & N. Africa | Lower middle income |
|--------------|-------------------------|--------------------|
| Population below 5m (% of total) | 11.2 | 9.7 | 6.5 |
| Population in urban agglomerations > 1 million (%) | .. | 20 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 4.0 | 2.5 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. | .. |
| Agricultural land under irrigation (% of total area) | 4.6 | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 3.6 | .. |
| Nationally terrestrial protected areas (% of total land area) | .. | 4.0 | 9.5 |
| Under-five mortality rate (per 1,000) | 22 | 34 | 69 |
| Child malnutrition, underweight (% of under age five) | 2.2 | 6.8 | 31.7 |
| Malania incidence rate (per 100,000 people) | .. | .. | 4,874 |

### Resilience

| Access to improved sanitation (% of total pop.) | 89 | 84 | 45 |
| Access to improved water source (% of total pop.) | 91 | 87 | 84 |
| Cereal yield (kg. per hectare) | 1,565 | 2,512 | 2,754 |
| Access to electricity (% of total population) | .. | 92.9 | 67.3 |
| Paved roads (% of total roads) | 100.0 | 74.3 | 29.3 |
| Health workers (per 1,000 people) | 0.8 | 3.6 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 1.2 | 2.9 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 47 | 5,854 | 81,789 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 131 | .. | .. |
| Public sector mgmt & institutions avg. (1–6 scale; 6 = best) | .. | .. | .. |
| Primary completion rate, total (% of relevant age group) | 82 | 88 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 104 | 93 | 93 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.5 | 3.8 | 1.6 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | 311.3 | 604.6 | 523.9 |
| CO₂ emissions, total (MtCO₂) | 2.1 | 1,230 | 3,744 |
| GHG net emissions/removals by LUCF (MtCO₂e) | .. | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | .. | 287 | 1,705 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | .. | 74 | 687 |
| Other GHG emissions, total (MtCO₂e) | .. | 7 | 17 |
| Energy use per capita (kilograms of oil equivalent) | .. | 1,399 | 680 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 213.9 | 217.9 |

### National-Level Actions

| Latest UNFCCC national communication | n/a |
| Annex-I emissions reduction target | n/a |
| NAMA submission | n/a |
| NAPA submission | n/a |
| Renewable energy target | .. |

### Carbon Markets

| Hosted Clean Development Mechanism (CDM) projects | n/a |
| Issued Certified Emission Reductions (CERs) from CDM (thousands) | n/a |
| Hosted Joint Implementation (JI) projects | n/a |
| Issued Emission Reduction Units (ERUs) from JI (thousands) | n/a |
**Yemen, Rep.**

Population (millions) 24.1  GDP ($ billions) 26.4  GNI per capita (Atlas $) 1,070
Pop. growth (avg. ann. %, 1990-2010) 3.5

**Climate**
- Average daily min/max temperature (1961-90, Celsius) 19 / 29
- Projected annual temperature change (2045-65, Celsius) 2.0 to 2.6
- Average annual precipitation (1961-90, mm) 167
- Projected annual precipitation change (2045-65, mm) -24 to 51
- Projected change in annual hot days/warm nights 6 / 13
- Projected change in annual cool days/cold nights -2 / -2

**Exposure to Impacts**

| Country data | Middle East & N. Africa | Lower middle income |
|--------------|-------------------------|---------------------|
| Land area below 5m (% of land area) | 0.6 | 1.4 | 1.7 |
| Population below 5m (% of total) | 1.8 | 9.7 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 10 | 20 | 14 |
| Urban pop. growth (avg. annual %, 1990-2010) | 5.6 | 2.5 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990-2009) | 0.1 | | |
| Annual freshwater withdrawals (% of internal resources) | 161.4 | 121.9 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | 3.3 | | |
| Population living below $1.25 a day (% of total) | .. | 3.6 | .. |
| Nationally terrestrial protected areas (% of total land area) | 0.5 | 4.0 | 9.5 |
| Under-five mortality rate (per 1,000) | 77 | 34 | 69 |
| Child malnutrition, underweight (% of under age five) | 43.1 | 6.8 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 1,106 | .. | 4,874 |

**Resilience**

| Access to improved sanitation (% of total pop.) | 52 | 84 | 45 |
| Access to improved water source (% of total pop.) | 62 | 87 | 84 |
| Cereal yield (kg, per hectare) | 1,003 | 2,512 | 2,754 |
| Access to electricity (% of total population) | 39.6 | 92.9 | 67.3 |
| Paved roads (% of total roads) | 8.7 | 74.3 | 29.3 |
| Health workers (per 1,000 people) | 0.3 | 3.6 | 2.6 |
| Foreign direct investment, net inflows (% of GDP) | 0.5 | 2.9 | 2.4 |
| Invest. in infrastructure w/private participation ($ millions) | 59 | 5,854 | 81,789 |
| Disaster risk reduction progress score (1-5 scale; 5 = best) | 2.3 | | |
| Ease of doing business (ranking 1-183; 1 = best) | 99 | | |
| Public sector mgmt & institutions avg. (1-6 scale; 6 = best) | 2.9 | | |
| Primary completion rate, total (% of relevant age group) | 61 | 88 | 88 |
| Ratio of girls to boys in primary & secondary school (%) | 66 | 93 | 93 |

**GHG Emissions and Energy Use**

- CO₂ emissions per capita (metric tons) 1.0 | 3.8 | 1.6 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 458.8 | 604.6 | 523.9 |
- CO₂ emissions, total (MtCO₂) 23.4 | 1,230 | 3,744 |
- GHG net emissions/removals by LUCF (1995, MtCO₂e) -9.7 | | |
- Methane (CH₄) emissions, total (MtCO₂e) 6.7 | 287 | 1,705 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) 3.3 | 74 | 687 |
- Other GHG emissions, total (MtCO₂e) 0.0 | 7 | 17 |
- Energy use per capita (kilograms of oil equivalent) 324 | 1,399 | 680 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 143.0 | 213.9 | 217.9 |

**National-Level Actions**

- Latest UNFCCC national communication 10/29/2001 (1st)
- Annex-I emissions reduction target n/a
- NAMA submission ..
- NAPA submission Yes
- Renewable energy target ..

**Carbon Markets**

- Hosted Clean Development Mechanism (CDM) projects 0
- Issued Certified Emission Reductions (CERs) from CDM (thousands) 0
- Hosted Joint Implementation (JI) projects n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands) n/a
### Zambia

**Population (millions)** 12.9  
**GDP ($ billions)** 16.2  
**Pop. growth (avg. ann. %, 1990–2010)** 2.5  
**GNI per capita (Atlas $)** 1,070

#### Climate

- Average daily min/max temperature (1961–90, Celsius) 15 / 28
- Projected annual temperature change (2045–65, Celsius) 2.1 to 2.7
- Average annual precipitation (1961–90, mm) 1,020
- Projected annual precipitation change (2045–65, mm) -54 to 94
- Projected change in annual hot days/warm nights 4 / 18
- Projected change in annual cool days/cold nights -2 / -2

#### Exposure to Impacts

| Country data | Sub-Saharan Africa | Lower middle income |
|--------------|-------------------|---------------------|
| Land area below 5m (% of land area) | 0.0 | 0.4 | 1.7 |
| Population below 5m (% of total) | 0.0 | 2.0 | 6.5 |
| Population in urban agglomerations > 1 million (%) | 11 | 14 | 14 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.0 | 4.0 | 2.8 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | 4.2 |
| Annual freshwater withdrawals (% of internal resources) | 2.2 | 3.2 | 18.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 36.0 | 11.7 | 9.5 |
| Under-five mortality rate (per 1,000) | 111 | 121 | 69 |
| Child malnutrition, underweight (% of under age five) | 14.9 | 24.6 | 31.7 |
| Malaria incidence rate (per 100,000 people) | 13,456 | 26,113 | 4,874 |

#### Resilience

- Access to improved sanitation (% of total pop.) 49 | 31 | 45 |
- Access to improved water source (% of total pop.) 60 | 60 | 84 |
- Cereal yield (kg. per hectare) 2,067 | 1,297 | 2,754 |
- Access to electricity (% of total population) 18.8 | 32.5 | 67.3 |
- Paved roads (% of total roads) 22.0 | 18.3 | 29.3 |
- Health workers (per 1,000 people) 0.8 | 1.2 | 2.6 |
- Foreign direct investment, net inflows (% of GDP) 6.4 | 3.6 | 2.4 |
- Invest. in infrastructure w/private participation ($ millions) 453 | 11,957 | 81,789 |
- Disaster risk reduction progress score (1–5 scale; 5 = best) 3.8 |
- Ease of doing business (ranking 1–183; 1 = best) 84 |
- Public sector mgmt & institutions avg. (1–6 scale; 6 = best) 3.1 |
- Primary completion rate, total (% of relevant age group) 87 | 67 | 88 |
- Ratio of girls to boys in primary & secondary school (%) 96 | 89 | 93 |

#### GHG Emissions and Energy Use

- CO₂ emissions per capita (metric tons) 0.2 | 0.8 | 1.6 |
- CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) 119.4 | 428.6 | 523.9 |
- CO₂ emissions, total (MtCO₂) 1.9 | 685 | 3,744 |
- GHG net emissions/removals by LUCF (1994, MtCO₂e) 3.5 |
- Methane (CH₄) emissions, total (MtCO₂e) 19.3 | 590 | 1,705 |
- Nitrous oxide (N₂O) emissions, total (MtCO₂e) 25.1 | 334 | 687 |
- Other GHG emissions, total (MtCO₂e) 0.0 | .. | .. |
- Energy use per capita (kilograms of oil equivalent) 617 | 689 | 680 |
- Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) 466.8 | 308.4 | 217.9 |

#### National-Level Actions

- Latest UNFCCC national communication 8/18/2004 (1st) |
- Annex-I emissions reduction target n/a |
- NAMA submission .. |
- NAPA submission Yes |
- Renewable energy target .. |

#### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects 1 |
- Issued Certified Emission Reductions (CERs) from CDM (thousands) 0 |
- Hosted Joint Implementation (JI) projects n/a |
- Issued Emission Reduction Units (ERUs) from JI (thousands) n/a |
## Zimbabwe

| Population (millions) | 12.6 | GDP ($ billions) | 7.5 |
|-----------------------|------|-----------------|-----|
| Pop. growth (avg. ann., 1990–2010) | 0.9 | GNI per capita (Atlas $) | 460 |

### Climate
- Average daily min/max temperature (1961–90, Celsius) | 14 / 28 |
- Projected annual temperature change (2045–65, Celsius) | 2.2 to 2.9 |
- Average annual precipitation (1961–90, mm) | 692 |
- Projected annual precipitation change (2045–65, mm) | -81 to -24 |
- Projected change in annual hot days/warm nights | 4 / 13 |
- Projected change in annual cool days/cold nights | -2 / -2 |

### Exposure to Impacts

| Land area below 5m (% of land area) | 0.0 | Sub-Saharan Africa | 0.7 |
|-------------------------------------|-----|--------------------|-----|
| Population below 5m (% of total)    | 0.0 | 2.0               | 5.1 |
| Population in urban agglomerations > 1 million (%) | 13 | 14 | 11 |
| Urban pop. growth (avg. annual %, 1990–2010) | 2.3 | 4.0 | 3.7 |
| Droughts, floods, extreme temps (% pop. avg., 1990–2009) | .. | .. | .. |
| Annual freshwater withdrawals (% of internal resources) | 34.3 | 3.2 | 3.7 |
| Agricultural land under irrigation (% of total ag. land) | .. | .. | .. |
| Population living below $1.25 a day (% of total) | .. | 50.9 | .. |
| Nationally terrestrial protected areas (% of total land area) | 28.0 | 11.7 | 10.6 |
| Under-five mortality rate (per 1,000) | 80 | 121 | 108 |
| Child malnutrition, underweight (% of under age five) | 14.0 | 24.6 | 28.3 |
| Malaria incidence rate (per 100,000 people) | 7,480 | 26,113 | 16,859 |

### Resilience

| Access to improved sanitation (% of total pop.) | 44 | 31 | 35 |
| Access to improved water source (% of total pop.) | 82 | 60 | 63 |
| Cereal yield (kg. per hectare) | 450 | 1,297 | 2,047 |
| Access to electricity (% of total population) | 41.5 | 32.5 | 23.0 |
| Paved roads (% of total roads) | 19.0 | 18.3 | 14.1 |
| Health workers (per 1,000 people) | 0.9 | 1.2 | 0.7 |
| Foreign direct investment, net inflows (% of GDP) | 1.4 | 3.6 | 3.2 |
| Invest. in infrastructure w/private participation ($ millions) | 301 | 11,957 | 4,471 |
| Disaster risk reduction progress score (1–5 scale; 5 = best) | .. | .. | .. |
| Ease of doing business (ranking 1–183; 1 = best) | 171 | .. | .. |
| Public sector mgt & institutions avg. (1–6 scale; 6 = best) | 2.1 | .. | .. |
| Primary completion rate, total (% of relevant age group) | 81 | 67 | 65 |
| Ratio of girls to boys in primary & secondary school (%) | 97 | 89 | 91 |

### GHG Emissions and Energy Use

| CO₂ emissions per capita (metric tons) | 0.7 | 0.8 | 0.3 |
| CO₂ emissions per units of GDP (kg/$1,000 of 2005 PPP $) | .. | 428.6 | 270.2 |
| CO₂ emissions, total (MtCO₂) | 9.1 | 685 | 219 |
| GHG net emissions/removals by LUCF (1994, MtCO₂e) | -62.2 | .. | .. |
| Methane (CH₄) emissions, total (MtCO₂e) | 9.5 | 590 | 436 |
| Nitrous oxide (N₂O) emissions, total (MtCO₂e) | 6.1 | 334 | 209 |
| Other GHG emissions, total (MtCO₂e) | 0.0 | .. | .. |
| Energy use per capita (kilograms of oil equivalent) | 763 | 689 | 365 |
| Energy use per units of GDP (kg oil eq./$1,000 of 2005 PPP $) | .. | 308.4 | 303.9 |

### National-Level Actions

- Latest UNFCCC national communication: 5/25/1998 (1st)
- Annex-I emissions reduction target: n/a
- NAMA submission: ..
- NAPA submission: n/a
- Renewable energy target: ..

### Carbon Markets

- Hosted Clean Development Mechanism (CDM) projects: 0
- Issued Certified Emission Reductions (CERs) from CDM (thousands): 0
- Hosted Joint Implementation (JI) projects: n/a
- Issued Emission Reduction Units (ERUs) from JI (thousands): n/a
2010 saw a new record for global investment in renewable power and fuels\(^1\) of $211 billion. This reflects a 32 percent increase in investments compared to 2009 and nearly seven-fold increase compared to 2004. Investment levels were boosted particularly by wind farm development in China and small-scale solar photovoltaic installations on rooftops in Europe.

Asset finance for utility-scale generation and biofuel projects reached $128 billion in 2010 rising from 19 percent in 2009. Over the same period, investment in small distributed capacity soared 91 percent to $60 billion. Though renewable power capacity remains a small fraction of total world power capacity at around 8 percent (excluding large hydropower), its share in overall new power capacity additions is gradually increasing and has risen from about 10 percent to 34 percent between 2004 and 2010. Investment in renewable energy (excluding large hydropower) is also progressively catching up with investment in fossil fuel–based generation capacity. Investment in small-scale renewable heat (e.g., biomass heating, ground- and air-source heating, and solar water heating) is also gaining traction. In 2010, investment in solar water heating alone was estimated at $10 billion.\(^2\)

Other segments of the value chain also grew over the period 2009–10: venture capital for young firms rose 59 percent to $2.4 billion; equity-raising on the public markets by quoted renewable energy companies grew 23 percent to $15.4 billion; and government-funded research and development increased by 121 percent to $5.3 billion as more “green stimulus” funds arrived in the sector. Only two areas of investment declined over this period. Corporate research, development, and deployment dropped 12 percent to $3.3 billion as companies retrenched in the face of economic difficulties. Expansion capital provided by private equity funds for renewable energy companies also decreased by 1 percent to $3.1 billion.

For the first time, developing countries overtook industrialized countries in financial new investment (i.e., total investment minus small-scale projects and government and corporate research and development [R&D]). Financial new investment exceeded $72 billion in developing countries and just over $70 billion in developed countries. This compares to a ratio of nearly four-to-one for equivalent investment in favor of developed countries in 2004. Importantly, developing countries are starting to host the development of a range of new renewable energy technologies for specific, local applications from rice-husk power generation to solar telecommunications towers.

China attracted the most investment in renewable energy for the second year in a row. In 2010, financial new investment rose 28 percent to almost $49 billion, representing more than a third of global financial new investment. Expenditure in the United States, ranked second, jumped 58 percent in 2010 to just over $25 billion. Developed economies remain well ahead in

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1 This includes all biomass, geothermal, and wind generation project of more than 1 megawatt (MW), all hydro projects of 0.5 to 50.0 MW, all solar projects of more than 0.3 MW, all marine energy projects, and all biofuel projects with a capacity of 1 million liters or more per year.

2 Small-scale renewable heat is not included in the overall renewable energy because it delivers energy services but does not generate power.
Table: Global trends in renewable energy investment ($ billion)

| Category                        | 2004 ($ billion) | 2008 ($ billion) | 2009 ($ billion) | 2010 ($ billion) |
|---------------------------------|------------------|------------------|------------------|------------------|
| **New investment by value chain** |                  |                  |                  |                  |
| Technology development          |                  |                  |                  |                  |
| Venture capital                 | 0.4              | 2.9              | 1.5              | 2.4              |
| Government R&D                  | 1.1              | 1.6              | 2.4              | 5.3              |
| Corporate R&D                   | 3.8              | 3.7              | 3.7              | 3.3              |
| Equipment manufacturing         |                  |                  |                  |                  |
| Private equity expansion capital| 0.3              | 6.6              | 3.1              | 3.1              |
| Public markets                  | 0.4              | 12.8             | 12.5             | 15.4             |
| **Projects**                    |                  |                  |                  |                  |
| Asset finance                   | 18.3             | 114.7            | 107.5            | 127.8            |
| of which re-invested equity     | 0.0              | -4.5             | -2.4             | -6.0             |
| Small distributed capacity      | 8.6              | 21.1             | 31.2             | 59.6             |
| **Total new financial investment** | 19               | 132              | 122              | 143              |
| R&D, Small distributed capacity | 14               | 26               | 37               | 68               |
| **Total**                       | 33               | 159              | 160              | 211              |
| **Mergers and acquisitions**    |                  |                  |                  |                  |
| Private equity buy-outs          | 0.8              | 5.5              | 2.8              | 0.8              |
| Public markets investor exits    | 0.0              | 1.0              | 2.0              | 1.3              |
| Corporate mergers and acquisitions | 2.4           | 18.0             | 21.6             | 20.2             |
| Project acquisitions and refinancing | 5.3           | 40.7             | 39.3             | 35.6             |
| **Total**                       | 9                | 65               | 66               | 58               |
| **Financial new investment by technology** |      |                  |                  |                  |
| Biofuels                        | 1.6              | 18.7             | 6.9              | 5.5              |
| Biomass and w-t-e                | 3.7              | 10.1             | 11.5             | 11.0             |
| Geothermal                      | 1.0              | 1.6              | 1.4              | 2.0              |
| Marine                          | 0.0              | 0.1              | 0.2              | 0.1              |
| Small hydro                     | 1.1              | 5.8              | 4.1              | 3.2              |
| Solar                           | 0.5              | 33.3             | 25.3             | 26.1             |
| Wind                            | 11.3             | 62.7             | 72.7             | 94.7             |
| **Total**                       | 19               | 132              | 122              | 143              |
| **Financial new investment by geography** |     |                  |                  |                  |
| Global                          | 5.6              | 34.4             | 45.7             | 59.3             |
| Asia and Oceania                | 9.0              | 47.6             | 45.0             | 35.2             |
| Europe                          | 0.3              | 2.4              | 2.4              | 5.0              |
| Middle East and Africa          | 3.8              | 32.3             | 19.7             | 30.1             |
| North America                   | 0.5              | 15.7             | 9.4              | 13.1             |
| **Total**                       | 19               | 132              | 122              | 143              |
| **Select developing countries** |                  |                  |                  |                  |
| Brazil                          | 0.4              | 13.2             | 7.3              | 6.9              |
| China                           | 1.5              | 23.9             | 38.3             | 48.9             |
| India                           | 1.3              | 4.1              | 3.0              | 3.8              |
| Africa                          | 0.3              | 1.1              | 0.7              | 3.6              |

Source: UNEP and Bloomberg New Energy Finance (2011).
Notes: New investment volume adjusts for re-invested equity. Total values include estimates of undisclosed deals. R&D = research and development, w-t-e = waste-to-energy.
investment for small-scale projects and R&D, which are not included in the financial new investment measure. Germany had the highest investment in small-scale projects in 2010 at $34.3 billion (60 percent of the world total).

Wind remains the leading technology, with solar now a close second. Financial new investment in wind energy and investment in small distributed wind capacity reached $95 billion in 2010 (up 30 percent from 2009). The majority of this investment was asset finance ($90 billion). Financial new investment in solar energy and small distributed solar capacity rose 52 percent in 2010 compared to 2009 to reach $86 billion. Small distributed capacity represented 70 percent of this investment.

Source: UNEP and Bloomberg New Energy Finance (2011).
## Urban areas

| Country      | City                        | Year | Population (thousands) | Total (MtCO₂e) | Per capita |
|--------------|-----------------------------|------|------------------------|----------------|------------|
| Belgium      | Brussels                    | 2005 | 1,007                  | 7.55           | 7.5        |
| Brazil       | Rio de Janeiro              | 1998 | 5,633                  | 12.11          | 2.1        |
|              | São Paulo                   | 2000 | 10,434                 | 14.22          | 1.4        |
| Canada       | Calgary                     | 2003 | 922                    | ..             | 17.7       |
|              | Toronto (Metro Area)        | 2005 | 5,556                  | 64.22          | 11.6       |
| China        | Beijing                     | 2006 | 15,810                 | 159            | 10.1       |
|              | Shanghai                    | 2006 | 18,150                 | 211.98         | 11.7       |
|              | Tianjin                     | 2006 | 10,750                 | 119.25         | 11.1       |
| Czech Republic | Prague                     | 2005 | 1,182                  | 11.03          | 9.4        |
| Finland      | Helsinki                    | 2005 | 989                    | 6.94           | 7.0        |
| France       | Paris (Île-de-France)       | 2005 | 11,532                 | 59.64          | 5.2        |
| Germany      | Frankfurt                   | 2005 | 3,778                  | 51.61          | 13.7       |
|              | Hamburg                     | 2005 | 4,260                  | 41.52          | 9.7        |
|              | Stuttgart                   | 2005 | 2,668                  | 42.57          | 16.0       |
| Greece       | Athens                      | 2005 | 3,898                  | 41.57          | 10.4       |
| Italy        | Bologna (Province)          | 2005 | 900                    | 9.97           | 11.1       |
|              | Naples (Province)           | 2005 | 3,087                  | 12.49          | 4.0        |
|              | Turin                       | 2005 | 2,243                  | 21.86          | 9.7        |
|              | Veneto (Province)           | 2005 | 4,738                  | 47.29          | 10.0       |
| Japan        | Tokyo                       | 2006 | 12,678                 | 62.02          | 4.89       |
| Jordan       | Amman                       | 2008 | ..                     | ..             | 3.25       |
| Netherlands  | Rotterdam                   | 2005 | 593                    | 17.64          | 29.8       |
| Norway       | Oslo                        | 2005 | 1,040                  | 3.63           | 3.5        |
| Portugal     | Porto                       | 2005 | 1,667                  | 12.14          | 7.3        |
| Slovenia     | Ljubljana                   | 2005 | 500                    | 4.77           | 9.5        |
| South Africa | Cape Town                   | 2005 | 3,497                  | 40.43          | 7.6        |
| Spain        | Barcelona                   | 2006 | 1,606                  | 6.74           | 4.2        |
|              | Madrid                      | 2005 | 5,964                  | 40.98          | 6.9        |
| Sweden       | Stockholm                   | 2005 | 1,890                  | 6.88           | 3.6        |
| Switzerland  | Geneva                      | 2005 | 432                    | 3.35           | 7.8        |
| Thailand     | Bangkok                     | 2005 | 5,659                  | 60.44          | 10.7       |
| United Kingdom | London (Greater Area)   | 2003 | 7,364                  | 70.84          | 9.6        |
|              | Glasgow                     | 2004 | 1,747                  | 15.3           | 8.8        |
| United States | Austin                      | 2005 | 672                    | ..             | 15.57      |
|              | Denver                      | 2005 | 580                    | 11.08          | 21.5       |
|              | Los Angeles                 | 2000 | 9,519                  | 124.04         | 13.0       |
|              | Minneapolis                 | 2005 | 388                    | ..             | 18.34      |
|              | New York City               | 2005 | 8,170                  | 85.87          | 10.5       |
|              | Portland, OR                | 2005 | 683                    | ..             | 12.41      |
|              | Seattle                     | 2005 | 576                    | ..             | 13.68      |

**Sources:** World Bank, 2010, Kennedy et al., 2009.
Renewable energy targets

This table summarizes various renewable energy targets announced by countries. Targets vary significantly with respect to sector coverage, baseline year, methodology, and form, and thus are generally not comparable.

Renewable targets include both voluntary and mandatory targets. Renewable energy targets in italics are expressed as percentages of primary energy; other targets are expressed in terms of final energy. Primary energy typically covers direct use at the supply level before transformation or distribution, while final energy covers energy supplied to consumers.

| Country                  | Renewable energy target | Renewable electricity target |
|--------------------------|-------------------------|------------------------------|
| Albania                  | 18% by 2020             | 5% by 2017                   |
| Algeria                  | 20% by 2030             | 20% by 2030                  |
| Argentina                | 40% by 2015             | 40% by 2015                  |
| Australia                | 20% by 2020             | 20% by 2020                  |
| Austria                  | 34% by 2020             | 5% by 2015                   |
| Bangladesh               | 10% by 2020             | 10% by 2020                  |
| Belgium                  | 13% by 2020             | 16% by 2020                  |
| Botswana                 | 1% by 2016              | 1% by 2016                   |
| Brazil                   |                         | 16% by 2020                  |
| Bulgaria                 | 16% by 2020             | 16% by 2020                  |
| Burundi                  | 2.1% by 2020            | 2.1% by 2020                 |
| Cape Verde               |                         | 50% by 2020                  |
| Chile                    |                         | 8% by 2020                   |
| China                    | 15% by 2020             | 3% by 2020                   |
| Cyprus                   | 13% by 2020             | 3% by 2020                   |
| Czech Republic           | 13% by 2020             | 16% by 2020                  |
| Denmark                  | 20% by 2011             | 17% by 2030                  |
| Dominican Republic       |                         | 10% by 2015                  |
| Estonia                  | 25% by 2020             | 25% by 2020                  |
| Fiji                     | 100% by 2013            | 10% by 2015                  |
| Finland                  | 38% by 2020             | 8% by 2015                   |
| France                   | 23% by 2020             | 35% by 2020                  |
| Gabon                    | 80% by 2020             | 10% by 2020                  |
| Germany                  | 18% by 2020             | 50% by 2030                  |
|                           | 30% by 2030             | 65% by 2040                  |
|                           | 45% by 2040             | 80% by 2050                  |
|                           | 60% by 2050             | 10% by 2020                  |
| Ghana                    |                         | 10% by 2012                  |
| Greece                   | 18% by 2020             | 10% by 2020                  |
| Hungary                  | 14.7% by 2020           | 10% by 2012                  |
| India                    |                         | 10% by 2012                  |
| Indonesia                | 17% by 2025             | 10% by 2012                  |
| Ireland                  | 16% by 2020             | 10% by 2012                  |
| Israel                   | 50% by 2020             | 5% by 2016                   |
| Italy                    | 17% by 2020             | 7% by 2020                   |
| Jamaica                  | 20% by 2030             | 26% by 2020                  |
| Japan                    | 10% by 2020             | 15% by 2020                  |
| Jordan                   | 7% by 2015              | 1.6% by 2014                 |
|                         | 10% by 2020             | 1.6% by 2014                 |
| Country                      | Renewable energy target | Renewable electricity target |
|-----------------------------|-------------------------|-----------------------------|
| Korea, Rep.                 | 4.3% by 2015            | 6.1% by 2020                |
|                             | 11% by 2030             | 5% by 2020                  |
| Kuwait                      | 10% by 2020             |                             |
| Latvia                      | 40% by 2020             |                             |
| Lebanon                     | 12% by 2020             |                             |
| Libya                       | 30% by 2030             |                             |
| Lithuania                   | 23% by 2020             |                             |
| Luxembourg                  | 11% by 2020             |                             |
| Madagascar                  | 54% by 2020             | 75% by 2020                 |
| Malawi                      | 7% by 2020              |                             |
| Maldives                    |                         |                             |
| Mali                        | 15% by 2020             |                             |
| Malta                       | 10% by 2020             |                             |
| Mauritius                   | 35% by 2025             | 65% by 2028                 |
| Mexico                      |                         |                             |
| Moldova                     | 20% by 2020             |                             |
| Mongolia                    | 10% by 2012             | 20% by 2020                 |
| Morocco                     | 8% by 2012              | 20-25% by 2020              |
| Netherlands                 | 14% by 2020             |                             |
| New Zealand                 |                         | 90% by 2025                 |
| Nicaragua                   |                         | 38% by 2011                 |
| Niger                       | 10% by 2020             |                             |
| Nigeria                     |                         | 7% by 2025                  |
| Pakistan                    |                         | 10% by 2012                 |
| Peru                        |                         | 40% by 2020                 |
| Poland                      | 15% by 2020             |                             |
|                             | 14% by 2020             |                             |
| Portugal                    | 31% by 2020             | 55-60% by 2020              |
| Romania                     | 24% by 2020             | 38% by 2020                 |
|                             | 38% by 2020             | 4.5% by 2020                |
| Russian Federation          |                         | 4.5% by 2020                |
| Rwanda                      |                         | 90% by 2012                 |
| Senegal                     | 15% by 2025             |                             |
| Slovak Republic             | 14% by 2020             |                             |
| Slovenia                    | 25% by 2020             |                             |
| South Africa                |                         | 4% by 2013                 |
|                             |                         | 13% by 2020                 |
|                             |                         | 14% by 2050                 |
| Spain                       | 20% by 2020             | 40% by 2020                 |
| Sri Lanka                   |                         | 10% by 2017                 |
|                             |                         | 14% by 2022                 |
| Sweden                      | 50% by 2020             |                             |
| Switzerland                 | 24% by 2020             |                             |
| Syrian Arab Republic        | 4.3% by 2011            |                             |
| Thailand                    | 20% by 2022             | 11% by 2011                 |
|                             |                         | 14% by 2022                 |
| Tonga                       | 100% by 2013            | 50% by 2012                 |
| Tunisia                     |                         | 11% by 2016                 |
|                             |                         | 25% by 2030                 |
| Turkey                      |                         | 30% by 2023                 |
| Uganda                      | 61% by 2017             |                             |
| United Kingdom              | 15% by 2020             | 10% by 2010/11              |
|                             |                         | 15% by 2015/16              |
| Vietnam                     | 5% by 2020              | 5% by 2020                  |
|                             | 8% by 2025              |                             |
|                             | 11% by 2050             |                             |

Source: REN21 Secretariat, 2011.
Non-Annex-I country GHG emissions reduction goals

This table summarizes GHG emissions reduction goals included by non-Annex-I countries in their Nationally Appropriate Mitigation Action plans submitted to the UNFCCC. Goals vary significantly with respect to sector coverage, baseline year, methodology, and form, and thus are generally not comparable.

| Country              | Goal Description                                                                 |
|----------------------|----------------------------------------------------------------------------------|
| Antigua and Barbuda  | GHG emission reduction of 25% below 1990 levels by 2020                          |
| Bhutan               | Efforts to remain GHG neutral                                                    |
| Brazil               | GHG reduction of 36.1-38.9% below its BAU emissions in 2020                     |
| Chile                | GHG reduction of 20% below its BAU emissions in 2020                            |
| China                | Reduce CO\textsubscript{2} emissions per unit of GDP by 40–45% by 2020 compared to 2005 |
| Colombia             | 77% of total electric capacity installed will be from renewable sources and 20% of fuel consumption from biofuels by 2020 |
| Costa Rica           | Long-term effort to enable carbon neutrality                                     |
| India                | Reduce CO\textsubscript{2} emissions (except agriculture) per unit of GDP by 20–25% by 2020 compared to 2005 |
| Indonesia            | GHG emissions reduction by 26% by 2020                                          |
| Israel               | GHG reduction of 20% below its BAU emissions in 2020                            |
| Korea, Rep.          | GHG emissions reduction by 30% below BAU by 2020                               |
| Maldives             | Long-term transformational effort to achieve carbon neutrality as a country by 2020 |
| Marshall Islands     | GHG reduction of 40% below 2009 level                                           |
| Mexico               | GHG reduction of 30% below its BAU emissions in 2020                            |
| Moldova              | GHG emissions reduction by 35% compared with the base year 1990, by 2020         |
| Peru                 | Renewable energy represents at least 33% of total energy used and zero net deforestation by 2020 |
| Singapore            | GHG emissions reduction by 16% below BAU by 2020                               |
| South Africa         | GHG emissions reduction by 34% below BAU by 2020                               |

Sources: UNFCCC, UNEP Risø Centre.
Annex-I emissions reduction target is the Annex-I (A1) country's target for reducing economy-wide greenhouse gas emissions by 2020 to the UNFCCC under the Copenhagen Accord. Targets are relative to 1990 emissions unless otherwise specified. Multiple targets indicate that countries have signaled a willingness to accept deeper targets, contingent on commitments by other parties or other conditions. (EU) indicates that the target submitted by the European Union and its member States applies to this country. “n/a” indicates that the country is not an Annex-1 party to the UNFCCC. (UNFCCC on October 21, 2011)

Access to electricity is the percentage of population with access to electricity. Electrification data are collected from industry, national surveys, and international sources. (International Energy Agency, World Energy Outlook 2010; data are for 2008/2009)

Access to improved sanitation is the percentage of population with adequate access to excreta disposal facilities (private or shared, but not public) that can effectively prevent human, animal, and insect contact with excreta. Improved facilities range from simple but protected pit latrines to flush toilets with a sewerage connection. To be effective, facilities must be correctly constructed and properly maintained. (World Health Organization; data are for 2008)

Access to improved water source is the percentage of the population with reasonable access to an adequate amount of water from an improved source, such as piped water into a dwelling, plot, or yard; public tap or standpipe; tube-well or borehole; protected dug well or spring; or rainwater collection. Unimproved sources include an unprotected dug well or spring, cart with small tank or drum, bottled water, and tanker trucks. Reasonable access to an adequate amount means the availability of at least 20 liters a person a day from a source within 1 kilometer of the dwelling. (World Health Organization; data are for 2008)

Agricultural land is arable land, land under permanent crops, and permanent pastures. Arable land includes land defined by the Food and Agriculture Organization of the United Nations as land under temporary crops (double-cropped areas are counted once), temporary meadows for mowing or for pasture, land under market or kitchen gardens, and land temporarily fallow. Land abandoned as a result of shifting cultivation is excluded. Land under permanent crops is land cultivated with crops that occupy the land for long periods and need not be replanted after each harvest, such as cocoa, coffee, and rubber. This category includes land under flowering shrubs, fruit trees, nut trees, and vines but excludes land under trees grown for wood or timber. Permanent pasture is land used for five or more years for forage, including natural and cultivated crops. (Food and Agriculture Organization)

Agricultural land under irrigation is the area purposely provided with water, including land irrigated by controlled flooding. (Food and Agriculture Organization; data are for 2009)
**Annual freshwater withdrawals** are total water withdrawals, excluding evaporation losses from storage basins and including water from desalination plants in countries where they are a significant source. Withdrawals can exceed 100 percent of internal renewable resources because river flows from other countries are not included, because extraction from nonrenewable aquifers or desalination plants is considerable, or because there is significant water reuse. (Food and Agriculture Organization and World Resources Institute; data are for various years; for details, see *World Development Indicators 2011, Primary data documentation)*

**Average annual precipitation** is the sum of the rainfall and the assumed water equivalent of the snowfall for the year in the country, averaged over the years 1961–1990. Values are based on gridded climatologies from the Climatic Research Unit (Mitchell et al., 2003).

**Average daily min/max temperature** are the minimum and maximum daily temperatures in the country, averaged for the years 1961–90, based on gridded climatologies from the Climatic Research Unit (Mitchell et al., 2003).

**Carbon dioxide (CO₂) emissions** are emissions from the burning of fossil fuels and the manufacture of cement and include carbon dioxide produced during consumption of solid, liquid, and gas fuels and gas flaring. (Carbon Dioxide Information Analysis Center; latest data are for 2008)

**Carbon dioxide (CO₂) emissions per capita** are carbon dioxide emissions divided by midyear population. (Carbon Dioxide Information Analysis Center, World Bank, and United Nations; data are for 2008)

**Carbon dioxide (CO₂) emissions per units of GDP** are carbon dioxide emissions in kilograms per $1,000 of GDP in 2005 purchasing power parity (PPP) terms. PPP GDP is gross domestic product converted to international dollars using PPP rates. An international dollar has the same purchasing power over GDP that a U.S. dollar has in the United States. (Carbon Dioxide Information Analysis Center and World Bank; data are for 2008)

**Certified Emission Reductions**—see Issued Certified Emission Reductions (CERs) from Clean Development Mechanism (CDM).

**Cereal yield** is measured in kilograms per hectare of harvested land and includes wheat, rice, maize, barley, oats, rye, millet, sorghum, buckwheat, and mixed grains. Production data on cereals refer to crops harvested for dry grain only. Cereal crops harvested for hay or harvested green for food, feed, or silage, and those used for grazing, are excluded. The FAO allocates production data to the calendar year in which the bulk of the harvest took place. But most of a crop harvested near the end of a year will be used in the following year. (Food and Agriculture Organization; data are for 2009)

**Child malnutrition, underweight** is the percentage of children under age 5 whose weight for age is more than two standard deviations below the median for the international reference population ages 0–59 months. The data are based on the World Health Organization’s child growth standards
Disaster risk reduction progress score is an average of self-assessment scores, ranging from 1 to 5, submitted by countries under Priority 1 of the Hyogo Framework National Progress Reports. The Hyogo Framework is a global blueprint for disaster risk reduction efforts that was adopted by 168 countries in 2005. Assessments of “Priority 1” include four indicators that reflect the degree to which countries have prioritized disaster risk reduction and the strengthening of relevant institutions (UNISDR, 2009–11 Progress Reports, http://www.preventionweb.net/english/hyogo).

Droughts, floods, and extreme temperatures is the annual average percentage of the population that is affected by natural disasters classified as either droughts, floods, or extreme temperature events. A drought is an extended period of time characterized by a deficiency in a region’s water supply that is the result of constantly below average precipitation. A drought can lead to losses to agriculture, affect inland navigation and hydropower plants, and cause a lack of drinking water and famine. A flood is a significant rise of water level in a stream, lake, reservoir, or coastal region. Extreme temperature events are either cold waves or heat waves. A cold wave can be both a prolonged period of excessively cold weather and the sudden invasion of very cold air over a large area. Along with frost, it can cause damage to agriculture, infrastructure, and property. A heat wave is a prolonged period of excessively hot and sometimes also humid weather relative to normal climate patterns of a certain region. Population affected is the number of people injured, left homeless, or requiring immediate assistance during a period of emergency resulting from a natural disaster; it can also include displaced or evacuated people. Average percentage of population affected is calculated by dividing the sum of total affected for the period stated by the sum of the annual population figures for the period stated. (EM-DAT: The OFDA/CRED International Disaster Database—http://www.emdat.be, Université Catholique de Louvain, Brussels [Belgium], World Bank)

Ease of doing business ranks economies from 1 to 183, with first place being the best. A high ranking (a low numerical rank) means that the regulatory environment is conducive to business operation. The index averages the country’s percentile rankings on 10 topics covered in the World Bank’s Doing Business. The ranking on each topic is the simple average of the percentile rankings on its component indicators. (World Bank; data are for October 2011)

Emission Reduction Units—see Issued Emission Reduction Units (ERUs) from Joint Implementation (JI).

Energy use per capita refers to use of primary energy before transformation to other end-use fuels, which is equal to indigenous production plus imports and stock changes, minus exports and fuels supplied to ships and aircraft engaged in international transport. (International Energy Agency; data are for 2009)
Energy use per units of GDP is the kilogram of oil equivalent of energy use per $1,000 of GDP in 2005 purchasing power parity (PPP) terms. Energy use refers to use of primary energy before transformation to other end-use fuels, which is equal to indigenous production plus imports and stock changes, minus exports and fuels supplied to ships and aircraft engaged in international transport. PPP GDP is gross domestic product converted to international dollars using PPP rates. An international dollar has the same purchasing power over GDP that a U.S. dollar has in the United States. (International Energy Agency, World Bank PPP data; data are for 2009)

Foreign direct investment, net inflows is investments to acquire a lasting management interest in an enterprise operating in an economy other than that of the investor. They are the sum of inflows of equity capital, reinvestment of earnings, other long-term capital, and short-term capital as shown in the balance of payments. Net inflows refer to new investments made during the reporting period netted against disinvestments. (World Bank and International Monetary Fund; data are for 2010)

GDP is gross domestic product and measures the total output of goods and services for final use occurring within the domestic territory of a given country, regardless of the allocation to domestic and foreign claims. GDP at purchaser values (market prices) is the sum of gross value added by all resident and nonresident producers in the economy plus any taxes and minus any subsidies not included in the value of the products. It is calculated without deductions for depreciation of fabricated assets or for depletion and degradation of natural resources. (World Bank, Organization for Economic Co-operation and Development, and United Nations; data are for 2010)

GHG stands for greenhouse gas, a classification of gases that absorb infrared radiation in the atmosphere. Water vapor, carbon dioxide, methane, nitrous oxide, chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), ozone (O₃), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆) are all considered greenhouse gases.

GHG net emissions/removals by LUCF refers to changes in atmospheric levels of all greenhouse gases attributable to forest and land-use change activities, including but not limited to (1) emissions and removals of CO₂ from decreases or increases in biomass stocks due to forest management, logging, fuelwood collection, and so forth; (2) conversion of existing forests and natural grasslands to other land uses; (3) removal of CO₂ from the abandonment of formerly managed lands (e.g. croplands and pastures); and (4) emissions and removals of CO₂ in soil associated with land-use change and management. For Annex-I countries under the UNFCCC, these data are drawn from the annual GHG inventories submitted to the UNFCCC by each country; for non-Annex-I countries, data are drawn from the most recently submitted National Communication where available. Because of differences in reporting years and methodologies, these data are not generally considered comparable across countries (UNFCCC).
GNI per capita is the gross national income, converted to U.S. dollars using the World Bank Atlas method, divided by the midyear population. GNI is the sum of value added by all resident producers plus any product taxes (less subsidies) not included in the valuation of output plus net receipts of primary income (compensation of employees and property income) from abroad. GNI, calculated in national currency, is usually converted to U.S. dollars at official exchange rates for comparisons across economies, although an alternative rate is used when the official exchange rate is judged to diverge by an exceptionally large margin from the rate actually applied in international transactions. To smooth fluctuations in prices and exchange rates, a special Atlas method of conversion is used by the World Bank. This applies a conversion factor that averages the exchange rate for a given year and the two preceding years, adjusted for differences in rates of inflation between the country and the Euro area, Japan, the United Kingdom, and the United States. (World Bank; data are for 2010)

Health workers include physicians, nurses, and midwives. Physicians include generalist and specialist medical practitioners. Nurses and midwives include professional nurses, professional midwives, auxiliary nurses, auxiliary midwives, enrolled nurses, enrolled midwives, and other associated personnel, such as dental nurses and primary care nurses. (World Health Organization, Global Atlas of the Health Workforce; data are for 2009 or the most recent year available)

Hosted Clean Development Mechanism (CDM) projects refers to the number of Clean Development Mechanism (CDM) projects registered within the (host) country by the CDM Executive Board. One of the flexibility mechanisms set forth under the Kyoto Protocol, the Clean Development Mechanism is designed to assist developing countries in achieving sustainable development by allowing entities from Annex I Parties to participate in low-emission project activities and obtain Certified Emission Reductions (CERs) in return. (UNEP Risø Centre: as of October 1, 2011)

Hosted Joint Implementation (JI) projects refers to the number of determined Joint Implementation (JI) projects within the (host) country. Joint Implementation is one of the flexibility mechanisms set forth under the Kyoto Protocol whereby entities from Annex I Parties may participate in low-emission project activities in Annex I countries and obtain Emission Reduction Units (ERUs) in return. (UNEP Risø Centre: as of October 1, 2011)

Investment in infrastructure with private participation is the value of infrastructure projects in telecommunications, energy (electricity and natural gas transmission and distribution), transport, and water and sanitation that have reached financial closure and directly or indirectly serve the public, including operation and management contracts with major capital expenditure, greenfield projects (in which a private entity or public-private joint venture builds and operates a new facility), and divestitures. Incinerators, movable assets, standalone solid waste projects, and small projects such as windmills are excluded. Investment in the four sectors are summed by year. The total value shown may not contain data for all sectors. (World Bank; data are for 2010)
Issued Certified Emission Reductions (CERs) from CDM refers to the number of Certified Emission Reductions (CERs) issued to Clean Development Mechanism (CDM) projects within the (host) country. One CER represents a reduction in greenhouse gas emissions of one metric ton of carbon dioxide equivalent. (UNEP Risø Centre: as of October 1, 2011)

Issued Emission Reduction Units (ERUs) from JI refers to the number of Emission Reduction Units (ERUs) issued to Joint Implementation (JI) projects within the (host) country. One ERU represents a reduction in greenhouse gas emissions of one metric ton of carbon dioxide equivalent. (UNEP Risø Centre: as of October 1, 2011)

Land area below 5m is the percentage of total land where the elevation is 5 meters or less. (CIESIN, Place II dataset; data are for 2000)

Latest UNFCCC national communication is the date of the country’s most recent National Communication submission under the UNFCCC. The parenthetical number indicates the number of reports submitted by the country. “n/a” indicates that the country is not a party to the UNFCCC. (UNFCCC: as of October 21, 2011)

LUCF stands for Land Use Change and Forestry.

Malaria incidence rate is the number of new cases of malaria per 100,000 people each year. The number of cases reported is adjusted to take into account incompleteness in reporting systems, patients seeking treatment in the private sector, self-medicating or not seeking treatment at all, and potential over-diagnosis through the lack of laboratory confirmation of cases. (World Health Organization, data are for 2008)

Methane (CH₄) emissions are emissions from human activities such as agriculture and from industrial methane production. (International Energy Agency; data are for 2005)

NAMA submission indicates whether a non-Annex I country has submitted Nationally Appropriate Mitigation Actions (NAMAs) to the UNFCCC. “Yes, with Goal” indicates the country included a GHG emissions reduction goal as part of its NAMA. See “Summary of National Actions” for details. “n/a” indicates countries that are not non-Annex I parties to the UNFCCC. (UNFCCC, UNEP Risø Centre: as of September 13, 2011)

NAPA submission indicates whether a country has submitted a National Adaptation Programme of Action (NAPA) under the UNFCCC. NAPAs are part of an effort under the UNFCCC to address the urgent adaptation needs of Least Developed Countries. “n/a” indicates countries that are not considered to be Least Developed Countries. (UNFCCC)

National terrestrial protected areas are totally or partially protected areas of at least 1,000 hectares that are designated by national authorities as scientific reserves with limited public access, national parks, natural monuments, nature reserves or wildlife sanctuaries, and protected landscapes. Marine
areas, unclassified areas, littoral (intertidal) areas, and sites protected under local or provincial law are excluded. (World Conservation Monitoring Centre; data are for the most recent year available)

**Nitrous oxide (N$_2$O) emissions** are emissions from agricultural biomass burning, industrial activities, and livestock management. (International Energy Agency; data are for 2005)

**Other GHG emissions** are byproduct emissions of hydrofluorocarbons (byproduct emissions of fluoroform from chlorodifluoromethane manufacture and use of hydrofluorocarbons), perfluorocarbons (byproduct emissions of tetrafluoromethane and hexafluoroethane from primary aluminum production and use of perfluorocarbons, in particular for semiconductor manufacturing), and sulfur hexafluoride (various sources, the largest being the use and manufacture of gas insulated switchgear used in electricity distribution networks). (International Energy Agency; data are for 2005)

**Paved roads** are roads surfaced with crushed stone (macadam) and hydrocarbon binder or bituminized agents, with concrete, or with cobblestones. (International Road Federation and World Bank estimates; data are for the most recent year available)

**Population** includes all residents who are present regardless of legal status or citizenship except for refugees not permanently settled in the country of asylum who are generally considered part of the population of their country of origin. Values are midyear estimates. (World Bank; data are for 2010)

**Population growth** is the exponential change for the period indicated. (World Bank)

**Population living below $1.25 a day** is the percentage of the population living on less than $1.25 a day at 2005 international prices. (World Bank; data are for the most recent year available)

**Population below 5m** is the percentage of the total population living in areas where the elevation is 5 meters or less. (CIESIN, Place II dataset; data are for 2000)

**Population in urban agglomerations of more than 1 million** is the percentage of a country’s population living in metropolitan areas that in 2009 had a population of more than 1 million. (United Nations; data are for 2010)

**Primary completion rate** is the percentage of students completing the last year of primary school. It is calculated by taking the total number of students in the last grade of primary school, minus the number of repeaters in that grade, divided by the total number of children of official graduation age. (United Nations Educational, Scientific, and Cultural Organization [UNESCO] Institute for Statistics; data are for 2009)

**Projected annual precipitation change** is the projected change in annual precipitation in the years 2045–65, relative to the control period 1961–
2000. The range reflects the 10th and 90th percentiles of results from nine general circulation models (GCMs), employing the A2 storyline and scenario family. Values are then calculated at the country level from 2-degree gridded data. (Modified from Meehl et al., 2007)

**Projected annual temperature change** is the projected change in annual temperature in the years 2045–65, relative to the control period 1961–2000. The range reflects the 10th and 90th percentiles of results from nine general circulation models (GCMs) at a standardized 2-degree grid, employing the A2 storyline and scenario family. Values are aggregated at the country level. (IPCC Fourth Assessment Report)

**Projected change in annual cool days/cold nights** are the projected changes in the annual incidence of “cool days” and “cold nights” in the years 2045–65, relative to the control period 1961–2000. Cool days and cold nights are those that fall below the 10th percentile of maximum temperature and the 10th percentile of minimum temperatures, respectively, in the control period. These indicators are useful to understand potentially critical thresholds related to cold stress and frequency of frost in different sectors such as agriculture and energy. The range reflects the 10th and 90th percentiles of results from nine general circulation models (GCMs), employing the A2 storyline and scenario family. Values are then calculated at the country level from 2-degree gridded data. (Climate Systems Analysis Group, University of Cape Town, 2009, calculated from Meehl et al., 2007)

**Projected change in annual hot days/warm nights** are the projected changes in the annual incidence of “hot days” and “warm nights” in the years 2045–65, relative to the control period 1961–2000. Hot days and warm nights are those that exceed the 90th percentile of maximum temperatures and those that exceeded the 90th percentile in minimum temperatures, respectively, in the control period. These indicators are useful to understand potentially critical thresholds related to heat stress in different sectors such as agriculture and energy. The range reflects the 10th and 90th percentiles of results from nine general circulation models (GCMs), employing the A2 storyline and scenario family. Values are then calculated at the country level from 2-degree gridded data. (Climate Systems Analysis Group, University of Cape Town, 2009, calculated from Meehl et al., 2007)

**Public sector management & institutions average.** The Country Policy and Institutional Assessment (CPIA) assesses the quality of a country’s present policy and institutional framework. “Quality” refers to how conducive that framework is to fostering poverty reduction, sustainable growth, and the effective use of development assistance. The CPIA ratings are used in the International Development Association (IDA) allocation process and several other corporate activities. The public sector management and institutions cluster includes property rights and rule-based governance, quality of budgetary and financial management, efficiency of revenue mobilization, quality of public administration, and transparency, accountability, and corruption in the public sector. (World Bank; data are for 2010)
Glossary

**Ratio of girls to boys in primary and secondary school** is the ratio of female to male gross enrollment in primary and secondary school. (United Nations Educational, Scientific, and Cultural Organization [UNESCO] Institute for Statistics; data are for 2009/2010)

**Renewable energy target** indicates whether a country has announced one or more targets for renewable energy production, either as a percentage of electricity production, primary energy or final energy. See “Summary of National Actions” for details. (REN21 Secretariat, 2011)

**Under-five mortality rate** is the probability per 1,000 that a newborn baby will die before reaching age five, if subject to current age-specific mortality rates. (UN Inter-agency Group for Child Mortality Estimation; data are for 2010, 2011)

**UNFCCC** stands for the United Nations Framework Convention on Climate Change, the primary forum for international efforts to address climate change.

**Urban population** is the share of the midyear population living in areas defined as urban in each country.

**Urban population growth** is the exponential change for the period indicated. (United Nations)
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