



# Net zero operations★

Our aim 1 is to be net zero across our entire operations on an absolute basis by 2050 or sooner.

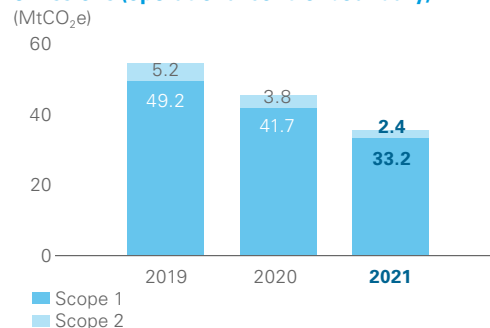
This aim relates to our Scope 1 (from running the assets within our operational control boundary) and Scope 2 (associated with producing the electricity, heating and cooling that is bought in to run those operations) GHG emissions. These emissions were 54.4MtCO<sub>2</sub>e in 2019. We're targeting a 20% reduction in our aim 1 operational emissions by 2025 and will aim for a 50% reduction by 2030 against our 2019 baseline. The 2030 aim was updated from 30-35% to 50% in February 2022.

## Progress and targets

Cumulative reduction in emissions against the 2019 baseline (absolute basis).

16%	2020 performance
35%	2021 performance
20%	2025 target
50%	2030 aim
Net zero	2050 or sooner

## Scope 1 (direct) and Scope 2 (indirect) GHG emissions (operational control boundary)<sup>a</sup>



## Our progress in 2021

We made further progress against our operational emissions reduction targets in 2021. Our combined Scope 1 and Scope 2 emissions, covered by aim 1 were 35.6MtCO<sub>2</sub>e, a decrease of 35% from our 2019 baseline of 54.4MtCO<sub>2</sub>e. The total decrease of almost 19MtCO<sub>2</sub>e includes 14.7MtCO<sub>2</sub>e in divestments and 2.6MtCO<sub>2</sub>e in sustainable emission reductions (SERs)<sup>b</sup>. Compared with 2020 (45.5MtCO<sub>2</sub>e), Scope 1 and 2 emissions in 2021 decreased by 22%.

This means that while we have exceeded our 2025 target, we have more work to do to achieve our overall net zero aim by reducing emissions while bringing new projects online.

Scope 1 (direct) emissions, covered by aim 1, were 33.2MtCO<sub>2</sub>e in 2021, a decrease of 20% from 41.7MtCO<sub>2</sub>e in 2020. Of those Scope 1 emissions 32.0MtCO<sub>2</sub>e were from CO<sub>2</sub> and

1.1MtCO<sub>2</sub>e from methane<sup>c</sup>. Emissions decreased due to divestments, delivery of SERs and other permanent operational changes.

Scope 2 (indirect) emissions decreased by 1.4MtCO<sub>2</sub>e, to 2.4MtCO<sub>2</sub>e in 2021, a 37% reduction compared with 2020. This decrease resulted from lower carbon power agreements, including at our Gelsenkirchen site, and the divestment of our petrochemicals business at the end of 2020.

In 2021 compared with 2020:


- Divestments accounted for 9.3MtCO<sub>2</sub>e of the Scope 1 and Scope 2 emissions decrease including the divestment of our operations in Alaska, our petrochemicals business and bpx energy divestments.
- The delivery of SERs reduced Scope 1 and 2 emissions by 1.6MtCO<sub>2</sub>e (in addition to the 1MtCO<sub>2</sub>e delivered in 2020).
- Other permanent reductions in 2021 included the repurposing of Kwinana refinery (0.7 MtCO<sub>2</sub>e. reduction) and cessation of production at Foinaven FPSO (0.2 MtCO<sub>2</sub>e. reduction).
- Temporary production-related changes accounted for an increase of 1.1MtCO<sub>2</sub>e associated with higher activity levels, particularly in refining, and temporary flaring increases in 2021.
- Total hydrocarbons flared increased from 831kt to 967kt in 2021 due to operational variances including temporary flaring associated with a new production start-up.

SERs across our business and activities in 2021 included:

- Gelsenkirchen refinery and chemicals facility reduced its Scope 2 emissions from purchased electricity by 520ktCO<sub>2</sub>e through new lower carbon power agreements.
- Our Azerbaijan, Georgia, Turkey (AGT) region delivered reductions of 118ktCO<sub>2</sub>e including 36ktCO<sub>2</sub>e from waste heat recovery modifications.
- Oman delivered further reductions of 65ktCO<sub>2</sub>e through green completions and 28ktCO<sub>2</sub>e through well-testing without flaring.

## bp equity share emissions

We report our operational (Scope 1 and 2) GHG emissions with reference to two boundaries, operational control and bp equity share. The data for both boundaries are included in the ESG datasheet and the annual report. Operational control boundary broadly covers bp-operated assets<sup>a</sup>. bp equity share covers 100% of emissions from subsidiaries and the percentage of emissions equivalent to our share of joint arrangements and associates<sup>d</sup>. Our Scope 1 and Scope 2 emissions reduced on both an operated and equity share basis in 2021 compared with 2020.

 Read more: [bp.com/ESGdata](https://www.bp.com/ESGdata)

a Operational control data comprises 100% of emissions from activities operated by bp, going beyond the IPIECA guidelines by including emissions from certain other activities such as contracted drilling activities.

b SERs result from actions or interventions that have led to ongoing reductions in Scope 1 (direct) and/or Scope 2 (indirect) greenhouse gas (GHG) emissions (carbon dioxide and methane) such that GHG emissions would have been higher in the reporting year if the intervention had not taken place. SERs must meet three criteria: a specific intervention that has reduced GHG emissions, the reduction must be quantifiable and the reduction is expected to be ongoing. Reductions are reportable for a 12-month period from the start of the intervention/action.

c Due to rounding some totals may not agree exactly with the sum of their component parts.

d bp equity share data comprises 100% of emissions from subsidiaries and the percentage of emissions equivalent to our share of joint arrangements and associates, other than bp's share of Rosneft. On 27 February 2022, following the military action in Ukraine, the bp board announced that bp intends to exit its 19.75% shareholding in Rosneft Oil Company (Rosneft).

For terms with ★ refer to the glossary on page 377 of the bp annual report 2021.