Study on the measurement method of environmental pollution loss based on shadow price model of waste gases emission from energy consumption in China's industrial parks

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Xiuyan Han
Nanjing university of Aeronautics and Astronautics

Tao Sun
Nanjing University of Aeronautics and Astronautics College of Economics and Management

nuaastao@163.com Corresponding Author
ORCiD: https://orcid.org/0000-0003-3121-2340

Taiyi Cao
Dalian University of Technology

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Abstract
Background: China's industrial parks are areas where energy consumption is relatively concentrated and air pollution is relatively serious. Air pollution threatens the living environment, health and even life of the residents around the industrial park. Therefore, the measurement of air pollution loss and its application have been raised, and gradually become an important problem to be solved.
Results: In order to explore the measurement method of environmental pollution loss from energy consumption waste gas emission in industrial parks, this paper, based on literature review, draws lessons from the latest research results at home and abroad, fully considers the actual situation of energy consumption waste gas emission and environmental pollution control in China's industrial parks, and constructs the shadow price measurement model of environmental pollution loss from energy consumption waste gas emission. Taking Nanjing MV industrial park as an example, the application test of environmental pollution loss of energy consumption waste gas emission is carried out by using the relevant statistical data of the park, and the validity of the model is verified.
Conclusions: The results show that the shadow price model is more effective for the Measurement of environmental pollution loss of exhaust gas emissions from energy consumption in industrial parks. The research results are of great significance to guide exhaust emission enterprises to strengthen environmental pollution loss control and support local governments to formulate energy consumption and exhaust emission standards and relevant policies for industrial parks
Full Text
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Figures
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Industrial Energy Consumption CO2 Emission Intensity and Its Growth Trend Chart in China

Figure 2

Principle diagram of environmental technology
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Schematic diagram of directional distance function distance function

Figure 4
Environmental Pollution Loss and Growth Rate Trend Chart of waste gas emission in Nanjing

MV Industrial Park
Figure 5
Environmental Pollution Loss Composition and Change Chart of Waste gas emission in MV Industrial Park of Nanjing

Figure 6
Radar Map of Environmental Pollution Loss Measurement Result of waste gas emission in Nanjing MV Industrial Park

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