

Synergistic effect analysis of pollution and carbon reduction and the path exploration

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Abstract:

At present, China faces multiple pressures, such as economic recovery, reaching the air quality standards and the carbon peaking and carbon neutrality goals. The combination of COVID-19 and other factors makes the realization of the carbon peaking and carbon neutrality goals more urgent and difficult. Analyzing the situation and tasks of promoting carbon peaking and carbon neutrality, and properly handling the relationship between development and emission reduction, pollution reduction and carbon reduction, partial and whole, will play a macro guiding role in the final achievement of the "double carbon" goal. Exploring the synergistic effect of pollution reduction and carbon reduction will provide important path support for realizing the carbon peaking and carbon neutrality goals as scheduled. As a useful exploration for the research demonstration on the synergistic effect of pollution and carbon reduction, Xue Jinjun's team from Nagoya University in Japan and Yang Cuihong's team from Chinese Academy of Sciences analyzed the synergistic effect, dynamic evolution process and implementation path of pollution and carbon reduction policies from 2001 to 2019. Relevant research results have been published in the 2022 5th issue of Chinese Journal of Population Resources and Environment.

Key words: carbon peaking and carbon neutrality goals, reducing the carbon reduction, synergistic interaction, climate change

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