

Large-scale solar container technology under the background of carbon neutrality

Through the literature review of China's research on carbon neutrality, this paper finds that the zero-carbon energy transition is the key to ...

This review summarizes the state-of-the-art negative carbon emission technologies, from the artificial enhancement of natural carbon sink technology to the physical, chemical, or ...

This work aims to study the role and current situation of Low-Carbon Technology (LCT) in realizing urban Carbon Neutrality goals and Sustainable Urban...

Carbon emission reduction and resource recovery from sludge treatment are critical to the carbon neutralisation of future wastewater treatment plants. This paper analyses the key ...

The growing threat of global warming makes it urgent to reduce carbon emissions and combat climate change. Achieving carbon neutrality is a key strategy to address these challenges ...

This study established a bottom-up technology selection model to examine the emission reduction paths of various emission reduction technologies under the carbon neutrality goal.

Against the background of global carbon neutrality and the booming development of renewable energy, it tries to clarify the causal relationship between the global carbon market and ...

The journal aims to publish advanced and up-to-date original research and review papers with highest quality in the low carbon field, to promote information and knowledge exchange on the frontier ...

In response to the practical issue of how to assess the photovoltaic (PV) systems from multi-perspectives and assist the green and low-carbon development of China's PV industry under the...

Here we provide a comprehensive review of the status and prospects of the key technologies for low-carbon, near-zero carbon, and negative carbon emissions. Technological ...

Large-scale underground salt cavern development can speed up the construction of carbon storage, which is of great significance to the realization of carbon neutrality.

In summary, wind power, PV power and other new energy power generations will become a powerful boost to achieve "dual carbon" goals, striving to achieve carbon peaks in 2030 ...

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It is proposed that carbon replacement, carbon emission reduction, carbon sequestration, and carbon cycle are the four main approaches to achieve carbon neutral, among ...

Research Large-Scale Energy Storage for Carbon Neutrality--Review Large-Scale Carbon Dioxide Storage in Salt Caverns: Evaluation of Operation, Safety, and Potential in China Wei ...

Carbon capture, utilization, and storage (CCUS) technology has been internationally recognized as one of the most effective and promising methods to reduce greenhouse gas emis ...

In recent years, improvements in energy storage technology, cost reduction, and the increasing imbalance between power grid supply and ...

When carbon markets are established with high carbon prices, technologies and infrastructures for implementing these industrial options to reduce emissions ...

Abstract Under the requirement of "carbon peaking and carbon neutrality", its urgent for China's energy system to develop in direction of low-carbon. Renewable energy and nuclear energy ...

The results feature a trade-off between China's ambition to transform its energy system toward mid-century and its reliance on carbon dioxide removal (CDR) after carbon neutrality. From a ...

In the social context of mitigating climate change and achieving carbon neutrality, the improvement of carbon emissions efficiency and the protection of biological carbon sequestration ...

Abstract Climate change is a common problem in human society. The Chinese government promises to peak carbon dioxide emissions by 2030 and strives to achieve carbon neutralization by 2060. The ...

Abstract: In the current serious global environmental crisis, we discuss the role of energy storage technology in achieving the goal of carbon neutrality as soon as possible.

It focuses on how to realize the large-scale storage of renewable energy such as wind and solar energy, how to solve the large-scale integration of renewable energy into the grid and the...

Thermal Energy Storage (TES) systems are pivotal in advancing net-zero energy transitions, particularly in the energy sector, which is a major contributor to climate change due to ...

With the large-scale development of wind and solar renewable energy power, the entire industry chain of wind and solar power generation is facing unprecedented opportunities and...



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