

Originality/value. This paper first attempts to examine the low-carbon transition in power generation from a new perspective of green finance. Second, this paper analyses the ...

To better regulate the carbon market, the Chinese government promulgated the National Carbon Emissions Trading Market Construction Plan (Power Generation Industry), Measures for the ...

Accordingly, this review addresses comprehensively, all the key environmental impacts associated with solar PV power generation. The reflections of this technology on land ...

Abstract The integrated energy system is an important prerequisite for the sustainable transformation to the low-carbon power system. ... and promoting environmental protection has become the inevitable choice for ...

When ecology thrives, civilization thrives, and when ecology declines, civilization declines. Based on panel data from 30 provinces in China from 2000 to 2021, this study used ...

Moreover, low-carbon growth is being promoted through measures like carbon pricing systems and subsidies for renewable energy sources. According to Dong et al. [14] and Ahmed [3], ...

The proposal of "double carbon" goal increases the pressure of power structure transformation. This paper sets up two scenarios according to the timing progress of realizing ...

Strategies and measures that can be adopted by countries to exploit their renewable energy resources include on site power generation which involves generating power at the location where it is used like photovoltaic ...

As the main body of carbon trading, the power generation industry plays a major role in carbon emission reduction. 16 It mainly includes hydropower generation, thermal power generation (coal power generation), ...

The global trend of reducing the "carbon footprint" has influenced the dynamic development of projects that use renewable energy sources, including the development of solar energy in large solar power ...

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