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Title: Investment in wind power generation systems

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What is the investment risk of wind power within 15 years?

Development trend of investment risk of wind power within 15 years is simulated. Policy risk is main investment risk factor for wind power in early simulation stage. Market risk becomes the main investment risk factor for wind power after 10 years. Utilizing wind energy can contribute to achieving China's "double carbon" goal.

What is the economics of wind power investment?

The economics of wind power investment is determined by both the quality of local wind resources and the discount imposed by the system accommodation capability. Power system modeling is conducted on an hourly basis throughout a year, simulating and optimizing system operation.

What are the underlying factors of investment risk in wind power?

Following the investigation of investment risks in the wind power industry, the underlying factors have been determined and are demonstrated as follows: (1) Horizontal variable: investment risk of wind power, market risk, technical risk, policy risk.

Is offshore wind power growing?

Offshore wind has experienced remarkable growth over the past decade, with global capacity expanding at an unprecedented pace. According to the International Energy Agency (IEA), offshore wind power capacity is set to increase fifteenfold by 2040, driven by technological advancements, declining costs, and strong policy support.

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