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Title: Xichang wind power generation project bidding

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What is the bidding strategy of a wind power producer?

Figure 6 shows the bidding strategy of the wind power producer in different periods under the above three cases. In case (a), the average offering price is 20.29 \$/MWh. The wind power producer uses its market power to participate in the spot market with higher offering prices, thus boosting the spot market clearing prices.

Should wind power producers be bidding in the spot market?

Studying the bidding strategies of wind power producers in the spot market, especially with the introduction of intraprovincial and interprovincial green certificate trading, has great practical significance for the stable operation of wind power producers and the construction of a renewable energy-friendly electricity market.

Can a bi-level stochastic model simulate a wind power producer's bidding strategy?

In this paper, a bi-level stochastic model is constructed to simulate the bidding strategy of a wind power producer in Chinese spot market considering intraprovincial and interprovincial green certificate trading. Through KKT conditions, the strong duality theorem and the big M method, the proposed model is transformed into a MIL model and solved.

What are the advantages of a wind power producer?

The wind power producer has the advantage of low marginal cost. The wind power producer can use its market power to compete as a marginal producer under different electricity market environments. When only participating in the spot market, the wind power producer submits higher offering prices, boosting the spot market clearing prices.

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Xichang wind power generation project bidding

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According to GlobalData, who tracks and profiles over 170,000 power plants worldwide, the project is currently at the permitting stage. It will be developed in multiple phases. The project construction is ...

With a total investment of over 1.92 billion yuan (about 267.67 million U.S. dollars), the project will have the capacity to generate an average of 680 million kWh of electricity annually. This ...

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This paper proposes a bi-level stochastic model to simulate the bidding strategy of a wind power producer in the spot market.

as of June 2023, the main bidding subjects of China's wind power EPC projects are state-owned enterprises, with 1317 bidding events, accounting for 50% of the total events, followed by ...

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