

## Solar Energy South Africa

# Generation rights replacement for wind power



## Overview

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Why should Chinese thermal power plant participate in GRT?

Chinese government set the annual energy production for thermal power plant, and due to the rapid expansion of installed capacity thermal power plant has low average utilization hours, and if those thermal power plant participate in GRT means that it has the room for reducing the power generation and may reduce benefits in the next year.

How to design the compensation of the power generation enterprise?

For the receiving side, the compensation of the power generation enterprise can be designed from two aspects: “quantity” and “price”. (1) Compensation for “quantity” should be realized by measuring the participation of the power generation enterprise in GRT and adjusting the GRT quota for the next year.

Is China's power generation plan based on a long-term transaction constraint?

China's current inter-provincial GRT is mainly based on medium and long-term transactions; therefore, it is impossible to precisely reach the monthly and previous power generation plans. Only the power peak-to-valley ratio can be used as a transaction constraint.

## Generation rights replacement for wind power

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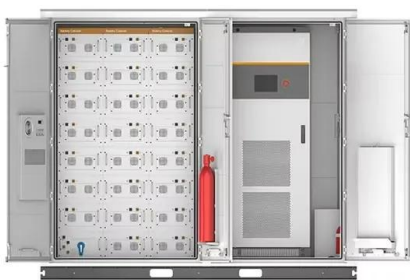
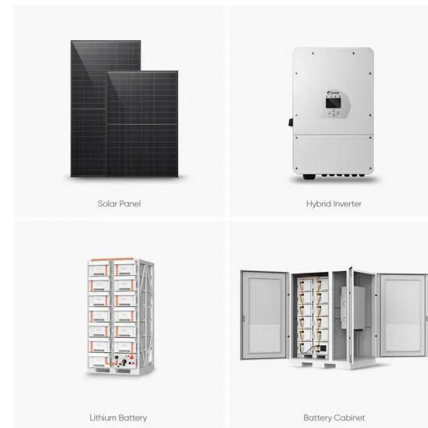


### Research on market bidding mechanism of generation rights trade ...

The generation rights trade between thermal  
 With large-scale wind power access to the power system, the volatility and random of wind power bring difficulties to the renewable energy ...

### Optimal Bidding Strategies for Wind-Thermal Power ...

The results show that the combined trading of wind-thermal power generation rights, incorporating carbon trading and green certificate trading, can effectively promote coal consumption savings in thermal power ...



### Research on market bidding mechanism of generation rights trade ...

In the power generation right trading market mechanism, the thermal power generation units and biomass generation units participate in the transaction as the generation right provider; wind ...

### Optimal Bidding Strategies for Wind-Thermal Power ...

In response to the challenges of low wind power consumption and high pollution emissions from

thermal power, the implementation of wind-thermal power generation rights trading is a proactive attempt to reduce wind ...



## Estimating the major replacement rates in next-generation offshore wind

Using a structured expert elicitation method, based on the Classical Model and implemented using EFSA guidance for the practical application of structured expert elicitation, major ...

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