

What is the optimal bidding strategy for a virtual power plant?

This paper proposes an optimal bidding strategy model of a virtual power plant (VPP) in the day-ahead market (DAM) that contains energy, reserve, and regulation markets. The VPP aggregates the wind farm (WF), photovoltaic power (PV), energy storage (ES), gas turbine (GT), and hydropower station (HS).

Will PV power systems grow in 2022?

According to the International Energy Agency's PV Power Systems Program (2022) (Abdullah-Al-Mahbub et al.,2023),the global installed PV capacity will exceed 942 GW by the end of 2021,and continuous price reductions in the battery storage area will result in a growing marketfor distributed PV power systems (J&#228;ger-Waldau,2022).

Does Heilongjiang have solar power?

Given the vast land area of Heilongjiang,the total solar energy resource potential is also substantial. Since 2017,Heilongjiang Province has been designated as a leading base for solar power generation applications,and after 5 years of development,PV installed capacity has become the third-largest power source in the Northeast region.

Can concentrating solar power be developed in China?

Ji J, Tang H, Jin P. Economic potential to develop concentrating solar power in China: a provincial assessment. *Renew Sustain Energy Rev.* 2019;114:109279. Ling-zhi R, Xin-gang Z, Yu-zhuo Z, Yan-bin L. The economic performance of concentrated solar power industry in China. *J Clean Prod.* 2018;205:799-813.

How will PV power generation affect the NPV of a project?

Although the initial investment cost is large,national policies such as tax preferences greatly mitigate the upfront costs,and the green environmental attributes of PV power generation will provide additional income for the project. The NPV of the project will turn from negative to positiveover time.

What is wind power bidding strategy?

Wind power bidding strategy in the short-term electricity market [J] Day-ahead optimal bidding of microgrids considering uncertainties of price and renewable energy resources [J] Combined bidding strategy for wind and thermal power based on information gap decision theory [J]

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