

The large-scale grid-connection of wind power has brought new challenges to safe and stable operation of the power system, mainly due to the fluctuation and randomness wind power output (Yuan et al., 2018, Yang Li et al., 2019). To mitigate the impact of new energy sources on the grid, it is effective to incorporate a proportion of energy storage within wind farms.

Originality/value. This paper creatively introduced the research framework of time-of-use pricing into the capacity decision-making of energy storage power stations, and considering the influence of wind power intermittency and power demand fluctuations, constructed the capacity investment decision model of energy storage power stations under different pricing methods, ...

The development of photovoltaic (PV) technology has led to an increasing share of photovoltaic power stations in the grid. But, due to the nature of photovoltaic technology, it is necessary to use energy storage equipment for better function. Thus, an energy storage configuration plan becomes very important. This paper proposes a method of energy storage configuration based ...

Unit name Owner Parent GT1 Chongqing Tiantai Thermal Power Co Ltd [100%] other [25.4%]; Chongqing Xipenglv Industries Zone Development Investment Co Ltd [20.5%]; State Power Investment Corp Ltd [11.0%]; Chongqing Yongchuan High Tech Industry Investment and Development Group Co Ltd [10.0%]; Chongqing Hengjie Investment Co Ltd [8.6%]; Chongqing ...

Ninghai power station in Zhejiang province is a coal-fired power plant with 4,400MW installed capacity. The power plant, owned and operated by state-owned Shenhua Guohua Electric Power Corporation, was commissioned between 2005 and 2009. The facility was built in two phases comprise of four 600MW generating units and two 1,000MW units.

To leverage the efficacy of different types of energy storage in improving the frequency of the power grid in the frequency regulation of the power system, we scrutinized the capacity allocation of hybrid energy storage power stations when participating in the frequency regulation of the power grid. Using MATLAB/Simulink, we established a regional model of a ...

Jingneng Energy Huanning Cogen power station: 300.0 MW: Coal: Jingneng Energy Huanning Cogen Power Station: Jingneng Energy Jining power station: 700.0 MW: Coal: Beijing Energy Group: Jingneng Zhuozhou power station: 350.0 MW: Coal: Jingneng Power: Jingtai Zhungeer Suancigou power station: 600.0 MW: Coal: Inner Mongolia Jingtai Electric Power ...

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