

Problems and countermeasures of new energy storage

Why is energy storage oversupply a problem?

The expansion is driven mainly by local governments and lacks coordination with new energy stations and the power grid. In some regions, a considerable storage oversupply could lead to conflicts in power-dispatch strategies across timescales and jurisdictions, increasing the risk of system instability and large-scale blackouts.

Why is energy storage problem a new research focus?

Therefore, storage problem for RES becomes a new research focus , and the energy storage technology thus attracts tremendous attention. China has rich RES, however, due to the inconsistency between power output period and consumption period, wind power abandoning is serious .

Is excessive energy storage a threat to China's power system?

But the risks for power-system security of the converse problem -- excessive energy storage -- have been mostly overlooked. China plans to install up to 180 million kilowatts of pumped-storage hydropower capacity by 2030. This is around 3.5 times the current capacity, and equivalent to 8 power plants the size of China's Three Gorges Dam.

How can energy storage be arranged in a power system?

All types of energy storage can be arranged in the power supply,power grid,load and other links,which truly realizes the adjustment of power and electricity imbalance on multi-time and multi-space scales and improves the flexibility of power systems [58].

Is energy storage a precondition for large-scale integration and consumption?

So to speak,energy storage is the precondition of large-scale integration and consumption of RES. However,China's energy storage industry is at the exploration stage and far from commercialization. This restricts the development of RES to certain extent. For this reason,this paper will concentrate on China's energy storage industry.

Does energy storage industry need a policy guidance?

Sungrow Power Supply Co.,Ltd.: energy storage industry needs the policy guidance urgently. Machinery &Electronics Business; 2015-6-22: A06. Policy and innovation are key factors for the development of energy storage technology. China Electric Power News; 2016-4-28: 008. Lin Boqiang.

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China's energy storage industry: Develop status, existing problems and countermeasures. Hongwei Yu, Jinhui Duan, Wei Du, Song Xue and Jinghui Sun. Renewable and Sustainable ...

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