

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.

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.

Is excessive energy storage a problem?

Spyros Foteinis highlights the acknowledged problem that an insufficient capacity to store energy can result in generated renewable energy being wasted (Nature 632, 29; 2024). But the risks for power-system security of the converse problem -- excessive energy storage -- have been mostly overlooked.

China Three Gorges University has conducted in-depth research on new energy reliability assessment and has provided valuable insights into the current cutting-edge research direction. Figure 7 Centrality vs Count ...

Research Center for Microgrid of New Energy, College of Electrical Engineering and New Energy (CEENE), China Three Gorges University (CTGU), Xiling, Yichang, China Wang Fangzong ...

According to the news from Gansu Province on Phoenix Net, the construction personnel at the site of the 100MW tower molten salt energy storage solar thermal power generation project of the 700,000-kilowatt "Solar Thermal ...

Biography Lei Zhang was born in China, in 1987. He received the M.S. degree from the College of Electrical Engineering and Renewable Energy, Three Gorges University, Yichang, China, in ...

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He is currently an Associate Professor with the College of Electrical Engineering and New Energy, China Three Gorges University. His research interests include load frequency control, artificial ...

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