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What is the optimal sizing planning strategy for energy storage? In , an optimal sizing planning strategy for energy storage was formulated for maintaining the frequency stability under power disturbance, and a scenario tree model was used to describe the uncertainties of wind power forecast in the optimization framework.



Can energy storage planning be used in the CES business model? Also, the existing widely-used method in energy storage planning, that embeds the system frequency response model into the optimization model to deal with inertia shortage demand, is unfeasible to be directly used in the CES business model due to the data confidentiality problem.



Are energy storage systems optimal planning and operation under sharing economies? At present, there are many researches related to the optimal planning and operation of energy storage systems under sharing economies such as CES and SES. In , two kinds of decision-making models for the CES participants were established based on perfect forecasting information and imperfect information, respectively.



Can a district heating system be used as an energy storage resource? It necessitates the exploration of new approaches to enhance the flexibility and cost-effectiveness of energy storage utilization, in which using District Heating System (DHS) as an equivalent energy storage resource of the power system is an effective method.



What is a bi-layer optimal energy storage planning model? Based on this evaluation results, a bi-layer optimal energy storage planning model for the CES operator is established, where the upper-layer model determines the installed capacity of lithium (Li-ion) battery station and the lower-layer model determines the optimal schedules of the CES system.

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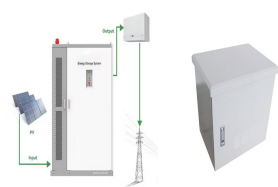
How to evaluate energy storage utilization demand of renewable power plants? The energy storage utilization demand of renewable power plants and power system operator are evaluated by the simulation of system optimal operation models and power system minimum inertia requirement assessment.



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A Generation-side Shared Energy Storage Planning Model Based on Cooperative Game ,??? ???



accessed in the survey in the context of BESS facilities, hosted in the database [28]: 1. Property Tax Exclusion for Solar Energy Systems and Solar Plus Storage System (PTESE4S) is a California



To bridge the research gap, this paper develops a system strength constrained optimal planning approach of GFM ESSs to achieve a desired level of SS margin. To this end, the influence of ???



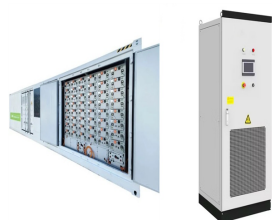
The proportion of renewable energy in the power system continues to rise, and its intermittent and uncertain output has had a certain impact on the frequency stability of the grid. ???

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, April 2017, Pages 63-72. Energy storage systems (ESS) can then be considered as temporary solutions that may alleviate saturation and electrical problems under these ???

"", ??????? ???



However, different types of energy storage systems affect system response speed and cost; different connection points alter system flow distribution, influencing network losses and ???



<p>With the acceleration of supply-side renewable energy penetration rate and the increasingly diversified and complex demand-side loads, how to maintain the stable, reliable, and efficient ???



,???,???? 1/4 ? ???



Key words: new energy side, policy, energy storage optimization configuration, system selection, energy storage planning : TM 73 , , . [J].
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