

Feng Xiao Reliable and accurate short-term prediction of wind speed at hub height is very important to optimize the integration of wind energy into existing electrical systems.

A multiscale construction strategy is proposed to rationally integrate multiple active sites into composite electrocatalysts. NiFe-layered double hydroxides and cobalt coordinated framework porphyrin...

To face these challenges, shared energy storage (SES) systems are being examined, which involves sharing idle energy resources with others for gain [14]. As SES systems involve collaborative investments [15] in the energy storage facility operations by multiple renewable energy operators [16], there has been significant global research interest and ...

@article{Xu2024BilevelCA, title={Bi-level configuration and operation collaborative optimization of shared hydrogen energy storage system for a wind farm cluster}, author={Chuanbo Xu and Xueyan Wu and Zijing Shan and Qichun Zhang and Bin Dang and Yue Wang and Feng Wang and Xiaojing Jiang and Yuhang Xue and Chaofan Shi}, journal={Journal ...

The concept of shared energy storage service shows promise in effectively coordinating renewable energy generators across multiple sites with complementary spatio-temporal characteristics. In this paper, a centralized economic and environmental equilibrium-based planning model was presented to plan both the shared energy storage units and the ...

This paper proposes a framework for using a shared battery energy storage system (BESS) to undertake the PFR obligations for multiple wind and photovoltaic (PV) power plants and provide commercial automatic generation control (AGC) service in the ancillary service market at ...

Byeong Jin Jeong, Jae Yoon Sung, Feng Jiang, Soon Phil Jung, Chang Woo Lee. Article 112552 View PDF. ... Yizhuo Xiao, Qian Li, Jianfeng Zheng, Xuanyou Liu, ... Zhi-peng Li. Article 112549 ... Research on optimal management strategy of electro-thermal hybrid shared energy storage based on Nash bargaining under source-load uncertainty. Lin Liu ...

Xiao Feng. Beijing Institute of Technology. Verified email at bit .cn - Homepage. porous materials. Articles Cited by Public access. Title. Sort. ... Bulk COFs and COF nanosheets for electrochemical energy storage and conversion. J Li, X Jing, Q Li, S Li, X Gao, X Feng, B Wang.

Optimal participation and cost allocation of shared energy storage considering customer directrix load demand response. Lei Ma, Xiaozhu Li, Xuan Kong, Changxing Yang, Laijun Chen ... Wan-nai-yi Liu, Bo Wen, Junhui Feng, Xiaoyun Lin. Article 110410 View PDF. Article preview. select article High-energy-density, ultralong-life manganese oxide ...

As global energy demand rises and climate change poses an increasing threat, the development of sustainable, low-carbon energy solutions has become imperative. This study focuses on optimizing shared energy storage (SES) and distribution networks (DNs) using deep reinforcement learning (DRL) techniques to enhance operation and decision-making capability. ...

Dynamic game optimization control for shared energy storage in multiple application scenarios considering energy storage economy. Xiao-Feng Han, Jiarong Li, Zhewen Zhang. Published in Applied Energy 1 November 2023.

Optimal design of energy-flexible distributed energy systems and the impacts of energy storage specifications under evolving time-of-use tariff in cooling-dominated regions Xingyu Zang, Hangxin Li, Shengwei Wang

DOI: 10.1016/j.energy.2023.127362 Corpus ID: 257896170; Equilibrium analysis of a peer-to-peer energy trading market with shared energy storage in a power transmission grid @article{Zhang2023EquilibriumAO, title={Equilibrium analysis of a peer-to-peer energy trading market with shared energy storage in a power transmission grid}, author={Wen-Yi Zhang and ...

In recent years, shared energy storage has gained significant attention for mitigating the supply and demand imbalance caused by the intermittency of distributed renewable energy. Considering the subjective perception of prosumers when facing uncertainty, this paper proposes a new dynamic competitive on-demand renting framework for energy storage capacity (ESC) sharing ...

Regional collaborative planning equipped with shared energy storage under multi-time scale rolling optimisation method. Sipeng Du, Di Wu, Zhong Dai, Guiqiang Li, Shala Lahaxibai ... Fangfei Li, Tian Xiao, Yuanji Li, ... Ya-Ling He. 1 October 2023 Article 128164 View PDF. Article preview. ... Chaoqun Zhuang, Chi Feng, ... Jingxuan Guan. 15 April ...

An economic storage sharing framework for prosumers and energy storage providers (ESPs) to promote renewable energy utilization cooperatively is proposed and is fair enough for the participants. In this article, we propose an economic storage sharing framework for prosumers and energy storage providers (ESPs) to promote renewable energy utilization ...

Covalent organic frameworks (COFs) as an emerging class of crystalline porous materials have received much attention due to their tunable porosity, modifiable skeletons, and atomically precise structures. Besides, COFs can provide multiple high-rate charge carrier transport (electron, hole, and ion) pathways, including conjugated skeletons, overlapped p electron clouds among the ...

2.2. Application scenarios. Shared energy storage is generally applied in the supply, network, and demand sides of power systems. The shared energy storage at the supply side is mainly utilized for renewable energy consumption (Zhang et al., 2021). The proportion of renewable energy is greatly increasing due to the continuous promotion of “carbon peaking ...

DOI: 10.1016/j.egy.2022.05.077 Corpus ID: 249081529; Optimal allocation of photovoltaic energy storage on user side and benefit analysis of multiple entities @article{Liu2022OptimalAO, title={Optimal allocation of photovoltaic energy storage on user side and benefit analysis of multiple entities}, author={Ke Wen Liu and Dongli Jia and Yazhou Sun and Chenhao Wei and ...

This article proposes a fuzzy logic-based energy-management system (FEMS) for a grid-connected microgrid with renewable energy sources (RESs) and energy storage system (ESS) and reduces the average peak load (APL) and operating ...

The fast-response feature from a superconducting magnetic energy storage (SMES) device is favored for suppressing instantaneous voltage and power fluctuations, but the SMES coil is much more ...

In this review, we characterize the design of the shared ES systems and explain their potential and challenges. We also provide a detailed comparison of the literature on shared ES based on multiple criteria. Finally, we discuss some promising directions for ...

However, the high cost has become an obstacle to hydrogen energy storage systems. The shared hydrogen energy storage (SHES) for multiple renewable energy power plants is an emerging mode to mitigate costs. This study presents a bi-level configuration and operation collaborative optimization model of a SHES, which applies to a wind farm cluster.

Energy storage is indispensable to achieve dispatchable and reliable power generation through renewable sources. As a kind of long-duration energy storage, hydrogen energy storage systems are expected to play a key role in supporting the net zero energy transition. However, the high cost has become an obstacle to hydrogen energy storage ...

In Fig. 12, $P_{h e s}$ is the power shared by the hybrid energy storage device, denoted as (11) ... Xiao Feng: Methodology, Software, Formal analysis. Feng Li: Project administration, Validation. Jing Yang: Data curation. Acknowledgments.

In order to take advantage of the dispersed energy storage units in the DC micro-grids, an improved state of charge (SOC) based droop control method for energy storage systems was proposed in this ...

The shared energy storage mode that relies on sharing economy can effectively overcome these problems and has recently attracted widespread attention. In this mini-review, firstly, the concept of ...

DOI: 10.1016/j.est.2024.110507 Corpus ID: 267073558; Collaborative operational model for shared hydrogen energy storage and park cluster: A multiple values assessment @article{Li2024CollaborativeOM, title={Collaborative operational model for shared hydrogen energy storage and park cluster: A multiple values assessment}, author={Yanbin Li and ...

Aqueous zinc ion batteries (AZIBs) are potential in the energy storage field, however, there are inherent disadvantages that seriously hinder their development, including the dissolution and ...

Stochastic optimal allocation of grid-side independent energy storage considering energy storage participating in multi-market trading operation. The integration of large-scale intermittent renewable energy generation into the power grid imposes challenges to the secure and economic operation of the system, and energy storage (ES) can....

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