

Large-scale multi-energy complementary bases, integrating thermal power generation and energy storage, represent a viable approach to mitigate the instability of renewables. Optimal planning ...

Ensuring reliable and low-latency communication in offshore wind farms is critical for efficient monitoring and control, yet remains challenging due to the harsh environment and lack of ...

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Abstract. In response to the issue of limited new energy output leading to poor smoothing effects on grid-connected load fluctuations, this paper proposes a load-power smoothing method ...

This paper introduces a novel dual-phased scheme designed to enhance the efficiency of Unmanned Aerial Vehicles through optimized scheduling and coverage path planning. The first ...

To address the limitations of traditional planning methods in handling complex scenarios such as multi-feeder or substation cluster supply under high photovoltaic (PV) penetration, this paper ...

Through extensive simulations and deep learning (DL)-based optimization, we assess achievable data rates and spectral energy efficiency (SEE) across various system configurations, training ...

Energy storage batteries, as the core of energy storage technology, directly affect the overall efficiency and safe operation of new power systems through their performance and stability. In ...

WSN consists of different sensor nodes kinds, like standard sensor nodes, sink nodes, and cluster head (CH) nodes. From sensor node, the data is transmitted to the cluster node, next ...

ABSTRACT Pumped Thermal Energy Storage (PTES) systems are ideal candidates for large scale applications due to high energy densities, no geographical constraints, and the use of ...

This work introduces a methodology for integrating renewable energy sources (RESs) and electric vehicle charging stations (EVCSs) into radial distribution networks, leveraging a novel Hybrid ...

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Energy storage systems improve the stability of the grid electricity by providing instantaneous action and helping in the balancing of supply and demand [4]. This is especially crucial with ...



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