

PIENAAR ENERGY (PTY) LTD

Price Reduction for Fast Charging of Smart Photovoltaic Energy Storage Containers for Base Stations



Price Reduction for Fast Charging of Smart Photovoltaic Energy Sto



Deep learning based solar forecasting for optimal PV BESS sizing ...

This study presents a comprehensive optimization framework for integrating photovoltaic (PV) and battery energy storage systems (BESS) into ultra-fast electric vehicle charging stations ...

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Optimized Operational Cost Reduction for an EV Charging ...

...

A four-stage intelligent optimization and control algorithm for an Electric Vehicle (EV) bidirectional charging station equipped with photovoltaic (PV) generation and fixed battery energy ...



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A novel business model and charging and discharging pricing ...

Four scenarios are set up for case analysis. The conclusions indicate that under the novel business model for centralized energy storage presented in this paper, optimized pricing ...

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Multi-timescale stochastic optimization for enhanced ...

Addressing the integration of global day-ahead dispatching and the necessity for real-time dispatch precision, this study proposes a novel multi-timescale stochastic dispatch strategy for ...

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Pricing of Park Charging Station Integrated Photovoltaic and Energy

ABSTRACT With the rapid growth of electric vehicle (EV) ownership and the lower cost of photovoltaic (PV) modules, photovoltaic-energy storage charging station (PV-ES CS) will gradually ...

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Intelligent Cost Analysis of Smart Photovoltaic Energy ...

With the promotion of renewable energy utilization and the trend of a low-carbon society, the real-life application of photovoltaic (PV) combined with battery energy storage systems (BESS) has thrived ...

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Multi-Objective Optimization of PV and Energy Storage Systems ...



The installation of ultra-fast charging stations (UFCSs) is essential to push the adoption of electric vehicles (EVs). Given the high amount of power required by this charging technology, the ...

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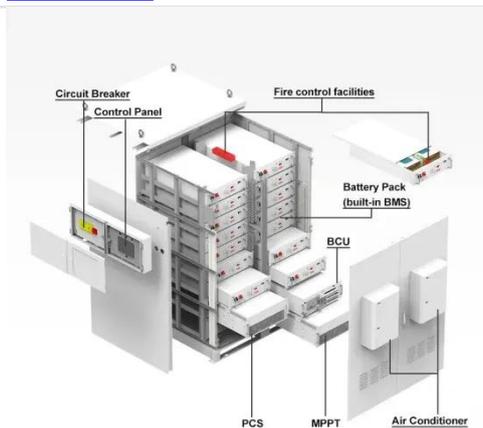
Dynamic Energy Management Strategy of a Solar-and-Energy

...

This study confirms the benefits of ESS in contracted capacity management, peak shaving, valley filling, and price arbitrage. The result shows that the incorporation of dynamic EMS ...



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Bi-objective collaborative optimization of a photovoltaic-energy

The proposed GBES efficiently utilizes the integrated energy system comprising charging stations and adjacent buildings, maximizing the use of photovoltaic energy and external power grids ...

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Photovoltaic-energy storage-integrated charging station ...

The results provide a reference for policymakers and charging facility operators. In this study, an evaluation framework for retrofitting traditional electric vehicle charging stations (EVCSs) ...

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