

Abstract. As the only way to build the energy Internet, the key and difficult point of integrated energy system is to plan it reasonably and efficiently.

Supported by cutting-edge innovations like the Internet of Things, vehicle-to-grid, and blockchain, Energy Internet connects diverse energy resources including solar panels, wind turbines, batteries, ...

We provide a detailed overview of the functions and interactions within the four layers of the ECIS, discussing the potential of ECIS to enhance resource utilisation, support green and low ...

Our study introduces a communications and power coordination planning (CPCP) model that encompasses both distributed energy resources and base stations to improve communication quality ...

The energy internet aims to change the way people generate, distribute, and consume electrical energy. It is a futuristic evolution of the electricity system that is closely coupled with other ...

This paper proposes a bi-level collaborative planning method for CEI to configure devices&#226;EUR(TM) capacities in multiple regional CEIs (RCEIs) and plan the interconnected networks simultaneously. ...

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Plan and optimize the form of inter-regional energy interconnection, the energy supply structure of the county-level energy system, the proportion of clean energy, and the coupling mode of...

This Topic invites cutting-edge research on theoretical advancements, empirical case studies, and technological innovations to propel the Energy Internet toward scalability and ...

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