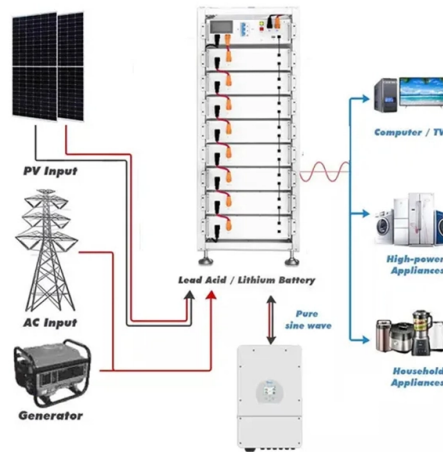


Energy Internet under Dual Carbon



Overview

This paper analyzes the requirements of energy Internet development and the shortcomings of energy Internet development based on the necessity of energy Internet development in China, constructs a development evaluation index system, and proposes the development mechanism. This paper analyzes the requirements of energy Internet development and the shortcomings of energy Internet development based on the necessity of energy Internet development in China, constructs a development evaluation index system, and proposes the development mechanism. In order to help Energy Internet (EI) enterprises develop sustainably, promote the transformation and upgrading of energy systems and achieve the goal of carbon peaking and carbon neutrality, a study on the influencing factors of green technology innovation (GTI) in EI enterprises was conducted. In order to improve the balance of energy supply and demand and reduce energy consumption, the design of digital twin system of energy Internet under the background of "double carbon" is proposed. The physical perception layer, transmission interaction layer, data sharing layer, application service. He, S. Green Technology Innovation of Energy Internet Enterprises: Study on Influencing Factors under Dual Carbon Goals. 3390/en16031405 Zhang Y, He S, Pang M, Li Q.

Article Content

Energy System Low-Carbon Transition under Dual

Under the premise of comprehensively considering the multi-sectors of electricity, industry, transportation, and heating, this paper presents a study on

Can the energy internet achieve carbon reduction?

The government's emphasis on regional technology development has an external strengthening effect on carbon emission reduction. The research

"Design and application of energy internet digital twin system under th ...

In order to improve the balance of energy supply and demand and reduce energy consumption, the design of digital twin system of energy Internet under the background of "double carbon" is proposed.

Harnessing dynamic carbon intensity for energy-data co-optimization

This study addresses the gap by proposing a spatiotemporally coupled two-stage energy-data co-optimization method that incorporates dynamic carbon intensity.

Research on digital transformation strategy of the energy industry ...

Abstract Digital transformation of the energy industry is at the vanguard of promoting green and low-carbon development of energy, and the transformation and upgrading of the energy industry

Can the Energy Internet promote China's energy system to achieve carbon ...

Abstract Energy Internet (EI) is typically characterized by digitalization and clean energy that seeks to revolutionize the energy system and reduce carbon emissions.

Dual carbon goals and renewable energy innovations

We examine the impact of renewable energy technology innovation on carbon emissions within the framework of China's "dual carbon" goal, focusing on the role of local (provincial)

Dual-drive coordinated operation strategy for internet data centers by ...

To exploit this flexibility, this paper has developed a dual-drive coordinated operational strategy, which integrates locational electricity prices and unit carbon emission costs based on the

Green Technology Innovation of Energy Internet Enterprises: Study on ...

Abstract: In order to help Energy Internet (EI) enterprises develop sustainably, promote the transformation and upgrading of energy systems and achieve the goal of carbon peaking and...

Can China's energy policies achieve the "dual carbon" goal ...

The continuous increase in global temperatures and frequency of extreme weather events underscore the urgency of achieving "dual carbon" goals. Systematically examining the textual

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Green Technology Innovation of Energy Internet Enterprises ...

In 2011, Jeremy Rifkin proposed Energy Internet (EI) in his book “The Third Industrial Revolution”, and made EI one of the cores of the third industrial revolution . EI has the ability to

Evaluation and Promotion Mechanism of Urban Energy Internet

This paper analyzes the requirements of energy Internet development and the shortcomings of energy Internet development based on the necessity of energy Internet development

(PDF) Evaluation and Promotion Mechanism of Urban

Under the "double carbon" strategy, as the main source of carbon dioxide emissions, the energy industry is the main force in carbon reduction, and

Green Technology Innovation of Energy Internet ...

The article reviews recent advances that have the potential to enable a sustainable energy transition, a green economy, and carbon neutrality in the biofuels sector.

(PDF) Can the energy internet achieve carbon reduction?

Heterogeneity analysis shows that the emission reduction effect brought by the development of energy Internet is more remarkable in the regions with lower carbon emissions and

Green Technology Innovation of Energy Internet

Green Technology Innovation of Energy Internet Enterprises: Study on Influencing Factors under Dual Carbon Goals January 2023 Energies 16

Green Technology Innovation of Energy Internet Enterprises: Study on ...

Green Technology Innovation of Energy Internet Enterprises: Study on Influencing Factors under Dual Carbon Goals Yichang Zhang 1, Sha He 1,2,*, Min Pang 1,2,* and Qiong Li 1

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Energy Internet, the Future Electricity System:

Energy Internet, a futuristic evolution of electricity system, is conceptualized as an energy sharing network. Its features, such as plug-and

A study on green innovation and entrepreneurship in the dual carbon

In this context, this study specifically denotes reducing carbon emissions and promoting the transformation and upgrading of energy markets through green innovation and entrepreneurial...

Multi-objective planning of integrated energy system

Abstract In order to address the planning problem of integrated energy system (IES) under the goal of “dual-carbon”, this paper proposes a multi

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