

Schematic diagram of energy storage industry chain

What is energy industry chain?

The energy industry chain is a complex, giant system, which includes not only raw coal, crude oil, natural gas, hydropower, nuclear power and other related primary energy sources , but also the process of thermal power generation, heat production, the production of various petroleum products and coal-based products .

What is seasonal energy storage analysis?

The seasonal energy storage analysis approach of [, ,] is based on a traditional mathematical model of short-term energy storage. As a result, the behavior of systems with different storage time characteristics cannot be fully captured.

Why is the energy supply chain a typical supply chain?

Therefore, the energy supply chain formed by the coal and electricity enterprises is a typical supply chain, and its coordinated operation can have great influence on national energy security and the sustainable development of the economy and society .

What are the three dimensions of coordinated optimization of the energy supply chain?

As regards coordinated optimization of the energy supply chain,current studies mainly focus on three dimensions; coordinated operation mechanisms,risk control and the intervention of government policies. Figure 1. Structure of the Literature Review. The remainder of the paper is structured as follows.

What is the composition of the coal energy industry chain?

In the study of the coal energy industry chain, many researchers define the composition of the energy industry chain as coal production (power consumption), coal transportation (oil consumption, power consumption), power production (coal consumption, oil consumption), power transport (loss of power) and users (power consumption) [6, 12, 13].

What is a long-term hydrogen storage model?

A novel long-term hydrogen storage model is proposed that considers different time steps. Different hydrogen compression levels are utilized to hydrogen compressor models. Establishing an industrial park-integrated energy system (IN-IES) is an effective way to reduce carbon emission,reduce energy supply cost and improve system flexibility.



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