Development of multi-energy complementary microgrids

What is the development trend of the multi-energy complementary system?
The development trend of the multi-energy complementary system and the hydrogen energy industry chainis also presented,which provides a reference for the development of hydrogen production technology and hydrogen energy utilization of the renewable energy complementary system. At present,global energy is in the process of transformation.

What is a multi-energy complementary system?
A multi-energy complementary system is an energy system composed of multiple energy sources and loads. It is generally connected to a large energy grid through a single point,that is,it is a controllable unit or load from the perspective of the energy grid. Under certain conditions,it can run independently.

What is a multi-energy complementary hydrogen energy system?
Proportion of various hydrogen production technologies. The renewable energymulti-energy complementary hydrogen energy system has a wide range of power sources,including solar energy,water energy,wind energy,tidal energy,biomass energy,etc.

What is China's multi-energy complementary integration model?
It aims to promote China's multi-energy complementary integration model in the "terminal integrated energy supply system" and continuously increase the proportion of renewable energy used,such as wind energy,tidal energy,and solar energy.

What are the research priorities for the multi-energy complementary hydrogen energy system?
One of the research priorities is to make reasonable planning for the energy storage capacity and power allocation of the multi-energy complementary hydrogen energy system, and to improve the economic efficiency of the entire system (Li et al., 2019a; Marocco et al., 2020).

How to improve the accuracy of Integrated Energy microgrid cluster scheduling operation?
In order to improve the accuracy of integrated energy microgrid cluster scheduling operation in existing technologies,a scheduling optimization measurebased on an improved bat algorithm was proposed in integrated energy system in this study. Firstly,the integrated demand response (IDR) was used to enhance the load-side energy utilization link.

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