

1. Global research in the new energy field is in a period of accelerated growth, with solar energy, energy storage and hydrogen energy receiving extensive attention from the global research community.

In 2020, even as economies sank under the weight of Covid-19 lockdowns, additions of renewable sources of energy such as wind and solar PV increased at their fastest rate in two decades, and electric vehicle sales set new records. A ...

Cold storage is a crucial link in cold chain. In recent years, the proportion of energy consumption in cold storage has increased rapidly. The combination of solar power ...

The development of the carbon market is a strategic approach to promoting carbon emission restrictions and the growth of renewable energy. As the development of new ...

Particularly, among the eight new energy fields analyzed, solar energy, energy storage and hydrogen have the largest research output in the period of 2015-2019, demonstrating the focus on these ...

The energy transition is an especially urgent issue today to meet global environmental agreements. The Sustainable Development Goals (SDGs) by the United ...

A new multi-generation system including solar energy storage, thermochemical hydrogen production, solid oxide fuel cell, organic Rankine cycle, and double effect absorption ...

Renewable energy generation can depend on factors like weather conditions and daylight hours. Long-duration energy storage technologies store excess power for long ...

Pumped storage is still the main body of energy storage, but the proportion of about 90% from 2020 to 59.4% by the end of 2023; the cumulative installed capacity of new ...

The role of energy storage as an effective technique for supporting energy supply is impressive because energy storage systems can be directly connected to the grid as ...

Texas, with an expected 6.4 GW, and California, with an expected 5.2 GW, will account for 82% of the new U.S. battery storage capacity. Developers have scheduled the ...

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