

China-europe hydrogen energy storage demonstration project

Could green hydrogen meet China's demand for energy & industrial uses?

On the other hand, China's total green hydrogen supply could reach as high as 133 Mtoe by 2030 and 149 Mtoe by 2040, using curtailed electricity from renewables. Therefore, green hydrogen in China could meet the demand for hydrogen for energy and industrial uses, such as in steel, petrochemical, and fertiliser production.

Does China have a hydrogen energy roadmap?

Comparison of studies on hydrogen energy roadmap for China. Source: authors' analysis. Although hydrogen has enjoyed unprecedented political and business impetus, large-scale green hydrogen development has yet to be realised, especially in China.

What is the demand for hydrogen in China?

The demand for hydrogen in China is projected to be around 60 million tonnes by 2030 and 70% of it will be produced by renewable energy (China Hydrogen Energy Alliance, 2019). In this ERIA project report, Chapter 2 projects that the total hydrogen energy demand in China could reach 29 Mtoe (million tonnes of oil equivalent) by 2030 and 58 Mtoe by 2040.

How important is hydrogen in China's Development Policy?

The government's Medium- and Long-Term Plan for the Development of the Hydrogen Energy Industry (2021-2035) defines, for the first time, the strategic importance of hydrogen as an energy source within China's wider national development policy. This is of great benefit in easing the development of China's hydrogen sector.

How can China develop a hydrogen energy industry?

Develop a system for hydrogen administration and designate the competent authorities. The government's Medium- and Long-Term Plan for the Development of the Hydrogen Energy Industry (2021-2035) defines, for the first time, the strategic importance of hydrogen as an energy source within China's wider national development policy.

What are the gaps in China's hydrogen development?

There are two noticeable gaps in China's hydrogen development from a policy perspective. First, there is a lack of comprehensive and valid feasibility studies on the potential renewable or clean energy available to hydrogen projects and their associated energy infrastructure network for transportation and distribution.

HydroTech has implemented more than 20 benchmark projects across China, Europe, and the Middle East, covering diverse applications such as hydrogen transportation, energy ...

At the same time, the China Hydrogen Alliance has promoted cooperation in aspects such as China-Europe

China-europe hydrogen energy storage demonstration project

policy dialogue, technical discussion, industrial research, capacity building, and ...

In strengthening international dialogue, the China Hydrogen Alliance was approved as the leading unit of the Hydrogen Project of the China-Europe Energy Technology Innovation Cooperation ...

A demonstration project utilises the abundant wind power on Dachen Island in the East China Sea to produce green hydrogen through proton exchange membrane electrolysis technology, and ...



China-europe hydrogen energy storage demonstration project

Web: <https://profbismed.pl>