

Who are the key players in the Asia Pacific hydrogen energy storage industry?

Some of the key market players operating across the Asia Pacific hydrogen energy storage industry are: In May 2021, Gravitricity introduced a stored energy demonstrator, aiming to expand its underground hydrogen storage through the gravity energy system by adding hydrogen and heat storage.

What is a specialized area for concentrated development of hydrogen-related industries?

A specialized area for concentrated development of hydrogen-related industries. A system where multiple forms of energy are coordinated and optimized for use. The production of hydrogen using renewable energy sources such as wind or solar power. The production of hydrogen using fossil fuels such as coal or natural gas.

How can a region develop a hydrogen production system?

The central and western regions can thus focus on building large-scale hydrogen production bases and hydrogen energy storage stations, utilizing abundant renewable energy to produce hydrogen, and constructing storage and transportation facilities. The eastern region can develop small-scale local hydrogen production systems to meet local demands.

Will Southeast Asia have a hydrogen future?

In a future where technology deployment follows the current policies in force and cost of capital in the region remains as it is today, Southeast Asia could have nearly 11 Mtpa of renewable hydrogen potential below a production cost of USD 6/kg H<sub>2</sub> by 2030 (Figure 7.7).

How many cities in China have developed local hydrogen industry development plans?

As of January 2024, excluding Tibet, Yunnan, and Heilongjiang, the 28 provinces, autonomous regions, and municipalities of China had developed local hydrogen industry development plans. The focus of these plans varies among urban clusters, reflecting regional differences in development levels.

What factors influence the layout of hydrogen infrastructure?

Key factors influencing the layout of hydrogen infrastructure include resource endowments, the availability of renewable energy, hydrogen production and transportation costs, the policy environment, and market demand (Brey et al., 2017, Schoenung and Keller, 2017, Huang et al., 2023).



# North asia layouts hydrogen energy storage and other industries



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