

China is the world's largest producer and consumer of hydrogen, with an annual output of about 35 million tons (Mton), accounting for one-third of global demand (Department of Science and Technology, National Energy Administration, 2024). Hydrogen has been widely used in the chemical industry, refineries, and transportation sectors in China.

The factors affecting the CDC of the hydrogen energy industry chain can be divided into two categories: internal and external factors. The research on internal factors is represented by Turner (2004), who determined the basic factors to promote the coordination of the hydrogen industry. Then, Wang et al. (2018) used various methods to analyze the role of ...

China's hydrogen energy industry started late but is now developing rapidly and has formed a complete hydrogen energy industry chain. ... and provide recommendations for industrial development planning. ... the capacity to innovate core technologies can be significantly strengthened. Currently, China's hydrogen energy storage and ...

For hydrogen storage and transportation, compressed gaseous hydrogen has dominated the Chinese market, with ongoing R&D efforts on increasing the working pressure while ensuring ...

The hydrogen energy industry, as one of the most important directions for future energy transformation, can promote the sustainable development of the global economy ...

The "Hydrogen Energy Industry Development Mid- to Long-Term Plan (2021-2035)" [1] ... Planning of Hydrogen Energy in Coastal Provinces and Port Cities. ... industry that the main bottleneck of China's hydrogen energy industry development is not the technology related to hydrogen production, storage, or fuel cell systems, but ...

On March 23, 2022, the National Development and Reform Commission and the National Energy Administration of China jointly announced the "Medium and long-term plan for the development of hydrogen energy industry (2021-2035)" (hereafter referred to as "Plan"). The Plan stresses that the hydrogen energy will be an important component of the national energy ...

In-depth analysis: China's hydrogen energy industry development status, characteristics and outlook
Hydrogen energy industry is vital to the high-quality development of industry. Green hydrogen is ...

The market size for vehicle-mounted hydrogen storage cylinders in China is expected to reach approximately 38 billion yuan (\$5.23 billion) to 46 billion yuan between 2025 and 2030, said HEIPA ...

By 2027, industries are expected to show measurable progress in adopting low-carbon hydrogen technologies. China's Energy Law reclassifies hydrogen as an energy resource, reducing regulatory barriers to its production, storage, and use. The new legislation encourages greater investment in hydrogen infrastructure and domestic production ...

The "Medium and Long-term Plan for Hydrogen Energy Industry Development (2021-2035)" analyzes the current development status of China's hydrogen energy industry, clarifies the strategic positioning, overall requirements, and development goals of hydrogen energy in China's green and low-carbon energy transition, and proposes specific plans for hydrogen innovation ...

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