



# China Southern Power Grid Photovoltaic to Hydrogen Energy Storage

Does China use solid hydrogen for electricity generation?

CMG An aerial shot of the Nansha Smart Hydrogen Station, south China's Guangdong Province. /CMG In a first-ever development, China has started using solid hydrogen for electricity generation as two hydrogen power stations operated by China Southern Power Grid were connected to the grid on Saturday.

Can solid-state hydrogen be used for electricity generation?

China Southern Power Grid has started using solid hydrogen for electricity generation in two power stations in Kunming and Guangzhou, China. "This is the first time that my country has used photovoltaic power generation to produce solid-state hydrogen energy and successfully applied it to the power system," said the Chinese state-owned utility.

Which country is launching the world's largest solar-to-hydrogen project in Xinjiang?

China's Sinopec has switched on the world's largest solar-to-hydrogen project in Xinjiang, while India has unveiled a new plan to incentivize green hydrogen and electrolyzer production. Sinopec has started operating the world's largest solar-to-hydrogen project and the first of its kind in China.

Can integrated hydrogen supply and power systems be developed in China?

Of the studies that have analyzed the development of integrated hydrogen supply and power systems of China at a regional level, Jin et al. (2022) considered electrolytic hydrogen production technologies as a single set of technologies, and suggested the significance of hydrogen transportation pipelines and electricity transmission systems.

Does China's integrated hydrogen supply and power system have low-carbon technologies?

This study analyzed the development of low-carbon technologies in China's integrated hydrogen supply and power system under the carbon peaking and carbon neutrality goals in three technology development scenarios using a cost optimization model of the integrated energy system.

What is a solid-state hydrogen storage project?

A solid-state hydrogen storage project, a key national research and development project in China, was put into operation.

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