

# China Oceanwide Solar Thermal Power Generation

How will China's new energy model impact the ocean?

This is a new model for power generation in China and marks an important step forward for integrated ocean energy. It is expected the electricity generated will power 30,000 homes. With the need to achieve a global energy transition ever more pressing, the ocean and its vast and widespread energy are getting more attention.

Did Chinese scientists test ocean thermal energy generation device in South China Sea?

GUANGZHOU -- Chinese scientists and engineers have completed an offshore test of an ocean thermal energy electricity generation device in the South China Sea.

Does China have an ocean thermal energy reserve?

The practical experiment corrected the previous underestimation of the temperature difference in the ocean, the potential of which is large, said Ning. China is rich in ocean thermal energy reserves, according to Ning.

Can tidal and solar power save China's energy costs?

In 2021, wind and solar power in China was generating electricity for no more than 0.50 yuan per kilowatt hour. However, new tech could make up for the limitations of tidal barrages. Combined tidal and solar generation can't reduce costs yet but can increase stability of supply.

Does China have Ocean Energy?

According to a 2019 report from the Ministry of Natural Resources' National Ocean Technology Centre, by the end of 2018 China had 7.4 MW of ocean-based generating capacity, which had produced a total of 234 GW hours of electricity since being installed. There are ocean energy installations scattered along China's coast.

Is China a good place to invest in ocean thermal energy?

China is rich in ocean thermal energy reserves, according to Ning. The project represents a certain level of technological breakthrough, but there is still a long way to go for large-scale commercial application. Lin Boqiang, director of the China Center for Energy Economics Research at Xiamen University, told the Global Times on Tuesday.

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