



Qunling solar container power station

<div class="df_qntext">Will hydrogen power China's Qinling station through winter?

China's Qinling station is expected to have more than half its energy coming from the renewable system. But perhaps the most significant step the team took was bringing hydrogen energy to Qinling to help power the station through the long and dark winter.

<div class="df_qntext">How much did it cost to build a solar power station?

But in late 2024 his team traveled to the station to install a system that took \$14 million to develop. It consists of 10 wind turbines, 26 solar modules, a hydrogen energy system, a container full of frost-resistant lithium-ion batteries and a smart grid that can predict and balance supply and demand.

<div class="df_qntext">What percentage of Qinling's energy is renewable?

The renewable system can currently produce 60 percent of the overall output of Qinling's energy system when it's running at full blast, with the remaining 40 percent coming from diesel. But Sun and his team are determined to raise that percentage--and to bring clean-energy systems to other Chinese polar bases as well.

<div class="df_qntext">How much energy does a solar power plant need?

It consists of 10 wind turbines, 26 solar modules, a hydrogen energy system, a container full of frost-resistant lithium-ion batteries and a smart grid that can predict and balance supply and demand. The entire renewable system is now running and, according to Sun, should provide half of the base's average annual energy needs.

<div class="df_qntext">How do Antarctic stations work?

An exception so far has been Belgium's Princess Elisabeth Station, which is only staffed during the Antarctic summer. It runs completely on wind and solar power, taking advantage of the almost 24-hour daylight. Even so, the vast majority of stations still depend on diesel-powered generators to keep their crews warm, fed and safe.

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BEIJING, March 3 (Xinhua) -- The hybrid power supply system of China's Qinling Station in Antarctica, integrating wind, solar, hydrogen and diesel power, has kicked off its operation, marking the debut of ...

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Qinling Station, China's fifth Antarctic base, began operations in February 2024. Plans are underway to expand the model to China's other polar stations, and to adapt it to other harsh ...

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