



SolarGrid Energy Solutions

China's first island power base station



Overview

Is China's Qinling station a resilient scientific hub?

[Photo/Xinhua] BEIJING -- As China's Qinling Station, the youngest of the country's five scientific research stations in the Antarctic, marked its first anniversary of operation on Friday, scientists are celebrating that it has proven itself as a resilient scientific hub in one of Earth's most extreme environments.

How many Antarctic research bases did China have before the Qinling station?

Before the Qinling Station, China established four research bases in Antarctica over the past nearly 40 years -- the Great Wall Station, the Zhongshan Station, the Kunlun Station and the Taishan Station. The Great Wall Station was the first to be built in February 1985.

Where is China's first steel column located?

Zheng Di, vice-captain of the team at the new station for China's 40th scientific expedition to Antarctica, told China Central Television that the first steel column, which is 16.5 meters tall, has been hoisted and installed at the station site on Inexpressible Island in Terra Nova Bay of the Ross Sea.

How does tidal power work in China?

In May 2022, China's first combined tidal and solar power station started feeding electricity to the grid, and the media waxed lyrical: "The sun and moon work together to generate power both above and below the waves." This is a new model for power generation in China and marks an important step forward for integrated ocean energy.

What's new at China's Antarctic Research Station?

Since the launch of the system on March 1, it has replaced traditional diesel power sources, providing uninterrupted zero-carbon power for the research equipment and essential living facilities at Qinling station, which was

established in February last year as China's fifth Antarctic research station.

What's going on at China's seawater station?

The station's water intake and supporting power systems have already been installed. The overall projects for seawater heating, pretreatment, water purification, and disinfection systems are approximately 80 percent complete, Shao Tianbao, lead engineer of the desalination project, told CMG.

China's first island power base station



Power Base Station

Base station power refers to the output power level of base stations, which is defined by specific maximum limits (24 dBm for Local Area base stations and 20 dBm for Home base stations) ...

China contributes to Antarctic studies, protection over past ...

Feb 22, 2024 · Over the past 40 years, China has launched five stations and two research vessels for Antarctic research, entering an era of three-dimensional development across sea, land and ...

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How's China's youngest scientific research ...

Feb 8, 2025 · BEIJING -- As China's Qinling Station, the youngest of the country's five scientific research stations in the Antarctic, marked its first anniversary of ...

Hydro

With a total installed capacity of 16,000 MW, Baihetan Hydropower Station is the world's second-largest hydropower station with a single unit capacity of 1,000 ...



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China's Qinling Antarctica station powered by ...

Mar 3, 2025 · BEIJING -- The hybrid power supply system of China's Qinling Station in Antarctica, integrating wind, solar, hydrogen and diesel power, has ...

Construction begins on wharf project for hydrogen hub in ...

Sep 3, 2024 · Construction has officially begun on a significant wharf project at Dalian Changxing Island (Xizhong Island), marking the full-scale launch of the hydrogen-based energy center in ...



China contributes to Antarctic studies, ...

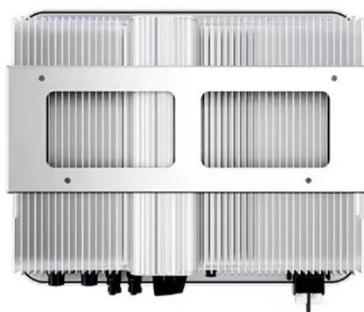
Feb 20, 2024 · China's Qinling Station started operation on Inexpressible Island in the Terra Nova Bay of Antarctica on Feb. 7. Chinese President Xi Jinping sent



...

China opens Qinling Station for Antarctic ...

Feb 7, 2024 · China's fifth scientific outpost in the Antarctic, Qinling Station, was officially named and opened on Wednesday. Qinling station is the third ...



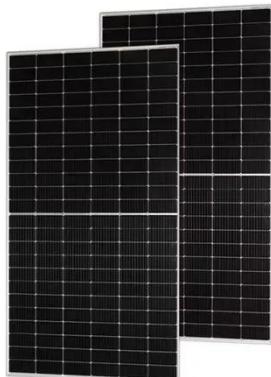
New Antarctic station opens

Feb 8, 2024 · China's fifth research station in Antarctica, the Qinling Station, commenced operations on Wednesday morning on Inexpressible Island in the ...

Infrastructure Construction and Development of the Islands, ...

Dec 24, 2024 · An AIS Base Station and VHF Base Station were also scheduled be built at the same sites. On August 4, 2015, the staff of Xisha Navigation Aid

Office stationed on Yongxing ...



China contributes to Antarctic studies, ...

Feb 20, 2024 · China's Qinling Station started operation on Inexpressible Island in the Terra Nova Bay of Antarctic

China could beat West with world-first fusion ...

Mar 27, 2025 · China to build world's first fusion-fission hybrid power plant with 100 MW output by 2030.



China's Butterfly Island Base Station Is the ...

Dec 17, 2022 · On December 13th, according to the website of the State-owned Assets Supervision and Administration Commission of the State

Council, the ...



Work on Antarctic research station advancing well

Jul 19, 2025 · Zheng Di, vice-captain of the team at the new station for China's 40th scientific expedition to Antarctica, told China Central Television that the first steel column, which is 16.5 ...



First island base station for BeiDou starts operations in China's

Jul 3, 2020 · China's first island base station for the BeiDou Navigation Satellite System was put into operation recently on the Kaishan Island of east China's Jiangsu Province.

China's integrated solar power, hydrogen and ...

Jan 7, 2025 · "China's largest" integrated offshore photovoltaic (PV) demonstration project, combining solar power, hydrogen production and ...



Nation's fifth Antarctic station opens

Feb 7, 2024 · The new station is China's third Antarctic research base to be operational throughout the year, alongside Changcheng and Zhongshan,

...

China Is Constructing World's 1st "Deep Sea ...

Apr 5, 2025 · China is constructing the world's first permanent undersea research station to study gas hydrates, a potential energy source that could exceed the ...



Implications of China's floating nuclear power plants in the ...

May 13, 2024 · Recent reports on China's floating nuclear reactor project have resurfaced, fuelling concerns regarding further militarisation of the already

tenuous South China Sea waters. The ...



GLOBALink , Explore China's First Zero-Carbon Island: A ...

Apr 26, 2025 · Once a testing ground for China's early wind turbines, today, Dachen is at the frontier of a green energy revolution. At the heart of this transformation is something called ...



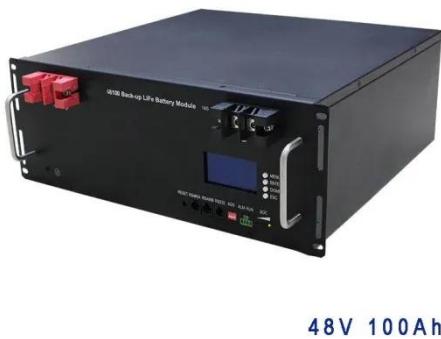
China's Antarctic station powered by new energy

Apr 22, 2025 · Since the launch of the system on March 1, it has replaced traditional diesel power sources, providing uninterrupted zero-carbon power for the research equipment and essential ...

China's ocean power stations set to go ...

Jan 26, 2023 · In May 2022, China's first combined tidal and solar power station started feeding electricity to the grid,

and the media waxed lyrical: "The sun ...



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China aims to have Xinghuo, world's first fusion-fission power ...

Mar 27, 2025 · China is poised to start building the world's first fusion-fission hybrid power plant, with the goal of generating 100 megawatts of continuous electricity and connecting to the grid ...

How's China's youngest scientific research ...

Feb 8, 2025 · This photo taken on Feb. 7, 2024 shows China's Qinling Station in Antarctica. (Photo by Zhang Tijun/Xinhua) As China's Qinling Station, the ...



"China's Military Power Projection and U.S. National Inter

Feb 20, 2020 · The second phase of China's militarization campaign involved the construction of military infrastructure on the islands, particularly at Fiery

Cross, Subi, and Mischief Reefs. ...



China's Antarctic station powered by new energy

Apr 22, 2025 · China is the first country to implement hydrogen energy in the extreme environment of Antarctica on a large scale, said Dou Yinke, dean of the Taiyuan university's ...



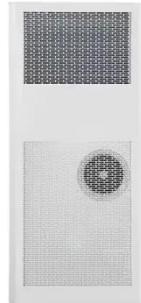
China launches first large-scale solar test base on barren land

May 31, 2025 · Moreover, China's first 2×350 MW ultra-supercritical cogeneration unit is set to commence commercial operations at the Tongliao Power Station, operated by the State Power ...

China's Antarctic Outpost Swaps Fossil Fuels for ...

Mar 6, 2025 · On a remote island in the Southern Ocean, China's Qinling Station has switched on Antarctica's first large-

scale hydrogen energy system -- a ...



Solar power farms on plateau fuel China's green energy ...

Jun 10, 2024 · Their voracious appetite, once a headache for environmentalists, has now become essential for maintaining the smooth operation of the solar power station. In 2012, the ...

How's China's youngest scientific research ...

Aug 17, 2025 · A drone photo taken on Feb 6, 2024 shows the view of China's Qinling Station in Antarctica.

[Photo/Xinhua] BEIJING -- As China's Qinling ...



China opens fifth Antarctic research station

Feb 7, 2024 · Engineers used lightweight, high-strength materials on the station, making it able to resist temperatures as low as -60 C and the

corrosive ...



Nation's fifth Antarctic station opens

Aug 16, 2025 · Before Qinling, China had constructed four research stations in Antarctica -- Changcheng, Zhongshan, Taishan and Kunlun. The new station is China's third Antarctic ...



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