

1MWh of emergency server racks for the Hainan Free Trade Port data center

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Generated on: 2026-07-04 00:25:03

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Why is Hainan launching a data center in China?

The deployment sits within Hainan's free-trade zone, where China has relaxed regulations to allow full foreign ownership of data center and telecom operations. The project supports Hainan's push to become a maritime and tech innovation hub, integrating marine science, digital services, and offshore infrastructure.

What does Hainan's underwater data centre mean for China?

The underwater data centre in Hainan represents China's expanding openness in the digital age. The project promotes cooperation with Southeast Asian and Belt and Road Initiative (BRI) member countries, facilitating the spread of Chinese digital services abroad while attracting foreign firms seeking access to China's technical advancements.

Is Hainan China's most ambitious experiment in free trade & economic openness?

As global trade faces rising tariffs and growing protectionism, China is moving in the opposite direction by opening one of its doors wider. That door is Hainan, a tropical island now being positioned as China's most ambitious experiment in free trade and economic openness.

Why should a free trade port be built in Hainan?

The construction of a free trade port in Hainan can strengthen economic, trade and investment ties with BRI partner countries, especially ASEAN countries, enhance the level of opening up to the outside world and expand foreign trade.

"We aim to establish a data hub in the Free Trade Port, with Hainan as the center for aggregating global data and building a digital economy ecosystem oriented toward the world," Wu said.

China has launched the world's first commercial underwater data center, and this project is more than just a technical achievement; it represents a step towards more sustainable and energy ...

Each underwater module accommodates up to 500 servers across 24 racks, housed in a heavy 1,433-ton cabin. The structure capitalizes on the natural cooling capacity, allowing continuous operation ...

With effect from 18 December 2025, the Hainan Free Trade Port ("HN FTP") will officially launch the

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custom-sealed operations.

(Xinhua/Zheng Yue) A journalist reports on a model of an undersea data cabin for an undersea data center, in Lingshui, south China's Hainan Province, Sept. 25, 2025.

Key measures include implementing full traceability of customs smart supervision through big data and blockchain technologies and expanding the list of countries entering Hainan without a visa.

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This Draft is the first local document to mention the removal of foreign ownership restrictions on internet data center ("IDC") services, following the MIIT Circular on April 10, 2024, ...

In April 2018, China announced a decision to develop Hainan into a pilot free-trade zone while gradually exploring and steadily promoting the establishment of an FTP with Chinese ...

The project will provide strategic support for scientific innovation, industrial upgrading, and cross-border data flows in the Free Trade Port, helping position Hainan as a hub for international ...

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