



Hybrid fusion power station

LiFePO₄ Battery, safety

Wide temperature: -20~55°C

Modular design, easy to expand

The heating function is optional

Intelligent BMS

Cycle Life: > 6000

Warranty: 10 years





Overview

Hybrid nuclear fusion-fission (hybrid nuclear power) is a proposed means of generating power by use of a combination of nuclear fusion and fission processes. The basic idea is to use high-energy fast neutrons from a fusion reactor to trigger fission in non-fissile fuels like ^{238}U or ^{232}Th .

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China is set to build the world's first fusion-fission hybrid power plant, a revolutionary step in nuclear energy. The facility, known as the Xinghuo high-temperature superconducting reactor, aims to generate 100 megawatts of continuous electricity and connect to the grid by the end of the decade.

\$2.7 billion project in Jiangxi province has entered 'first phase', says Hong Kong report The Experimental Advanced Superconducting Tokamak reactor in China is part of global efforts to develop nuclear fusion. Courtesy Iter. China is poised to start building the world's first fusion-fission hybrid.

China plans to start construction of the world's first fusion-fission power plant, with the aim of generating 100 MW of continuous electricity for the national grid by 2030. The facility will be built on Yaohu Science Island in the hi-tech zone of Nanchang, Jiangxi province, in central China.

Enabling a future with unlimited clean electricity. We're building the world's first fusion power plant and creating a new era of plentiful, zero-carbon electricity from fusion.

China's ambitious launch of the Xinghuo hybrid fusion-fission reactor project, a groundbreaking initiative poised to redefine global nuclear energy dynamics,



marks a pivotal moment in the race for sustainable and efficient power solutions. The groundbreaking Xinghuo hybrid fusion-fission reactor in.



Hybrid fusion power station



[Is the world ready for the transformational power of ...](#)

The first fusion power plant is due to begin its operations imminently, but what does the fusion-powered future mean for the energy ...

[China's Xinghuo: The World's First Fusion-Fission Power Plant ...](#)

Why is Xinghuo Different? Unlike conventional nuclear power plants that rely solely on fission, Xinghuo will employ a fusion-fission hybrid approach. This means it will use ...



[China aims for world's first fusion-fission reactor by ...](#)

The hybrid facility, to be built in southeastern Jiangxi province, aims to generate 100 megawatts of continuous electricity, ...

Microsoft Word

Abstract. The fusion-fission hybrid system has the potential attractiveness of good safety performances and plenty of fuel compared to the fission reactor system and also easing the ...

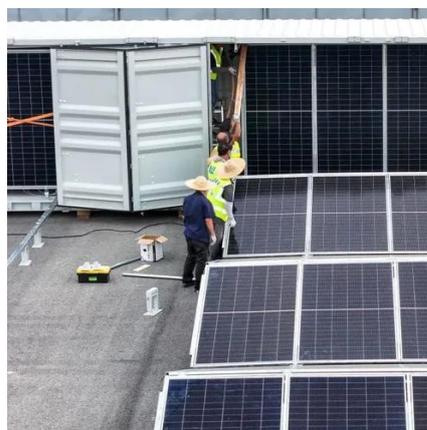


[China aims to have Xinghuo, world's first fusion-fission power plant](#)

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 ...

Fusion power

Fusion power Fusion plasma in the Experimental Advanced Superconducting Tokamak. Fusion power is a potential method of electric power generation ...



[China could beat West with world-first fusion-fission plant by 2030](#)

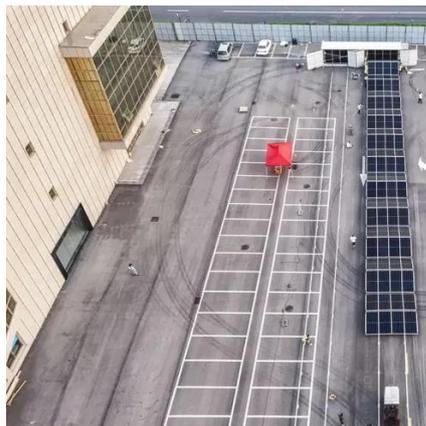
China is set to build the world's first fusion-fission hybrid power plant, a revolutionary step in nuclear energy. The facility, known as the Xinghuo high-temperature ...



[China Leaves U.S. and the West in the Dust With ...](#)



The recent announcement from China about its groundbreaking project, the Xinghuo hybrid fusion-fission reactor, has ...



[China aims for world's first fusion-fission reactor by 2031](#)

The hybrid facility, to be built in southeastern Jiangxi province, aims to generate 100 megawatts of continuous electricity, equivalent to 10% of a nuclear plant's output.



[China's Xinghuo: The World's First Fusion-Fission ...](#)

China is embarking on a groundbreaking journey to develop the world's first fusion-fission hybrid power plant, marking a major ...



[China Takes a Bold Leap in Fusion Energy](#)

Explore China's ambitious fusion energy projects in Sichuan and beyond, as it races to lead the global quest for limitless, clean power.



[China Aims To Operate World's First Hybrid Fusion-Fission Nuclear Plant](#)



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



Nuclear fusion-fission hybrid

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China plans world's first fusion-fission power plant

China plans to start construction of the world's first fusion-fission power plant, with the aim of generating 100 MW of continuous electricity for the national grid by 2030. The ...



The World's First Fusion-Fission Plant Aims To Generate 10

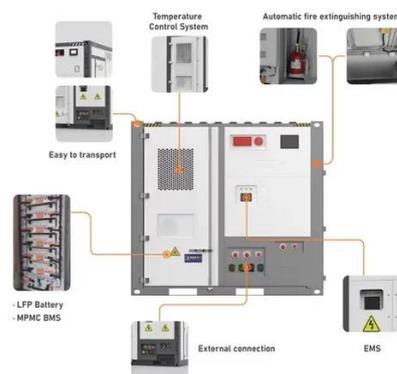
Lianovation Superconductor revealed in 2023 that the 100-megawatt facility could be completed within five to six years. If China completes the hybrid plant on schedule, it will be a ...



The Fusion Hybrid



Hans A. Bethe In the last few years nuclear fusion by magnetic confinement has made great progress. However, an economical pure fusion power plant is still many years away. In this ...



Fuse

Fuse is securing clean, reliable, global energy abundance, along with US competitiveness, through nuclear fusion & nuclear effects testing.

[China's Xinghuo: The World's First Fusion-Fission Power Plant ...](#)

China is embarking on a groundbreaking journey to develop the world's first fusion-fission hybrid power plant, marking a major milestone in the quest for clean, sustainable energy.



[EAST reactor puts China on fusion's leading edge](#)

Thereby the requirements for the fusion system are drastically reduced, relative to a "pure" fusion power plant. Hybrid reactors would ...



[Fusion and Hybrid Power Generation](#)



[8] Over all, nuclear fusion provides a clean and renewable energy source, yet its high investment and low power out-put is a major hurdle to ...

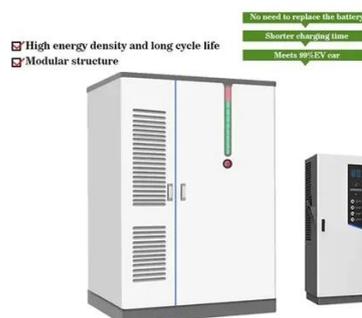


[World's first fusion-fission plant aims to generate ...](#)

China is set to build the world's first fusion-fission hybrid power plant, a revolutionary step in nuclear energy. The facility, known as the Xinghuo ...

[Powering up Virginia: World's first grid-scale commercial fusion power](#)

Bob Mumgaard, Commonwealth Fusion Systems CEO and Virginia Governor Glenn Youngkin join 'Squawk Box' to discuss a multi-billion dollar investment for the world's first grid-scale commercial fusion



[China plans world's first fusion-fission power plant](#)

China plans to start construction of the world's first fusion-fission power plant, with the aim of generating 100 MW of continuous ...

[Fusion Technology That Will Lead 2026 Development](#)



Although laser fusion remains further from grid deployment than magnetic confinement systems, it continues to offer the promise of extremely high energy gain and may ...



[The World's First Fusion-Fission Plant Aims To ...](#)

Lianovation Superconductor revealed in 2023 that the 100-megawatt facility could be completed within five to six years. If China ...

["China Moves Decades Ahead": World's First ...](#)

China has recently unveiled its groundbreaking ambition to construct the world's first hybrid fusion-fission nuclear plant, named ...



[China Aims To Operate World's First Hybrid Fusion ...](#)

China is poised to start building the world's first fusion-fission hybrid nuclear power plant, with the goal of generating 100 MW of ...

[Type One Energy and TVA Sign Agreement ...](#)



Its FusionDirect development program pursues the lowest-risk, shortest-schedule path to a fusion power plant over the coming ...





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