

A-Core Container

Launch of solar power generation system



Overview

Will China build a space-based solar power project?

Imagine a world where clean, renewable energy is beamed from space directly to Earth. That vision is now one step closer to reality as China pushes forward with its ambitious space-based solar power project. The plan?

To build kilometer-wide solar stations in orbit, harness the sun's energy 24/7, and wirelessly transmit power to the planet.

Will China build a solar power station in space in 2028?

(With input from Xinhua) China reached a milestone with advancing efforts to build a solar power station in space in 2028, aiming to convert sunlight in outer space into electrical supply to drive the satellites in orbits or transmit power back to the Earth, according to China's spacecraft maker China Academy of Space Technology (CAST).

When did China start building a space solar power station?

In June 2021, China initiated the construction of its first experimental space solar power station in Bishan. In November 2023, researchers from the Xian University of Electronic Science and Technology published test results for the "Chasing Sun Project," the world's first complete ground verification system for space solar power.

Will China launch a solar power station in geostationary orbit?

Long Lehao, a senior scientist at the Chinese Academy of Engineering, recently confirmed that China is working toward launching a one-kilometer-wide solar power station into geostationary orbit—a staggering 36,000 kilometers above Earth.

What is China's space energy project?

This method provides continuous energy supply, unlike solar panels on Earth,

which only work during the day. China's space energy project is part of its long-term strategy to become a leader in renewable energy and space technology.

What will China do with solar energy?

Wireless Power Transmission – Microwaves or laser beams will send energy down to Earth, where it will be converted into usable electricity. Use of Super-Heavy Rockets – China plans to use next-generation launch vehicles to transport massive solar arrays into orbit.

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