

A plan to build solar container communication stations in space and complement solar power





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.

What is space-based solar power (SBSP)?

Space-Based Solar Power (SBSP or SSP), the concept of gathering solar power in space using solar power satellites (SPS) to send it back to Earth, may sound like science fiction, but it is getting closer to reality. China plans to build a 1km-wide solar array in the geostationary orbit about 36,000km above Earth.

Why is China investing in a space solar power station?

China is investing in SBSP to secure a continuous and sustainable source of renewable energy, reduce dependence on fossil fuels, and lead the global clean energy race. The space station could provide power 24/7 and help meet rising energy demands. Is China's space solar power station safe for humans and the environment?

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How do space-based solar power stations work?

"This is an incredible project to look forward to." Space-based solar power (SBSP) stations work by using a system of mirrors to concentrate sunlight onto panels, which then generate electricity. The electricity is then converted to microwave radiation and beamed to a fixed antenna on Earth.



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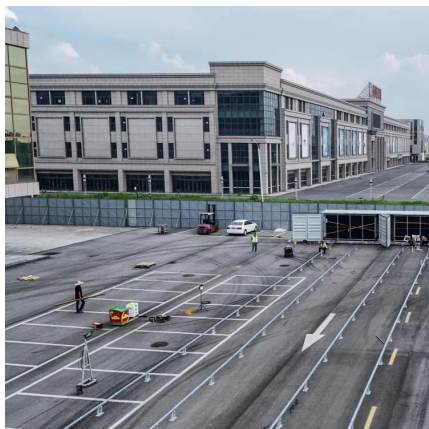
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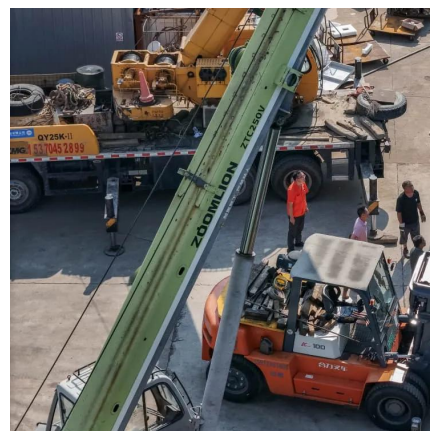
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