# Solar power satellite factory in Japan


## Overview

Japan is taking the concept of solar energy to a new level by moving into outer space. The country's OHISAMA project, named after the Japanese word for sun, will launch a space-based solar power station that can wirelessly beam energy back to Earth.

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In a bold step toward redefining the global energy landscape, Japan is moving closer to a historic achievement: wirelessly transmitting solar energy from space to Earth. At the heart of this innovation is a satellite project called OHISAMA, a name which means “sun” in Japanese—a fitting symbol for.

Japan is preparing to launch a spacecraft that will send solar energy wirelessly from orbit to Earth. The satellite will beam down the solar power it captures, where receivers will convert it into usable energy. The project, called OHISAMA (Japanese for "sun"), will launch sometime in 2025.

Thanks to a Low Earth Orbit (LEO) satellite, this project aims to capture solar energy 24/7 and beam it to Earth, essentially delivering continuous sun power. The potentially transformative implications of launching the first orbital solar power plant have sparked discussions across the renewable.

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Beaming 1 kilowatt of solar power from 400 km above Earth, Japan signals a future of satellite- powered cities without cables. In a groundbreaking move, Japan is set to harness celestial energy through its OHISAMA project—aptly named after the Japanese word for 'sun.' This initiative aims to.

This year, a 400-pound satellite will launch into low Earth orbit and attempt

something that once seemed confined to science fiction. Using solar panels and microwave transmission, the satellite will send about one kilowatt of power—roughly enough to run a dishwasher for an hour—down to a ground.

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[OHISAMA project by Japan Space Systems Space solar power]

In 2015, the Japan Aerospace Exploration Agency (JAXA) successfully transmitted 1.8 kilowatts of power over a distance of 55 meters using microwave technology. Building on ...

### Japan's groundbreaking solar power experiment: solar power ...

In 2023, a Caltech-built satellite beamed solar power from space for the first time, providing validation for future large-scale systems. Many demonstration projects are also in ...

[Japan's OHISAMA Project: Beaming Space Solar ...]

The OHISAMA project by Japan Space Systems aims to create a space-based solar power system that can provide consistent ...

[Japan's OHISAMA Project: Beaming Space Solar Power to Earth]

The OHISAMA project by Japan Space Systems aims to create a space-based solar power system that can provide consistent energy generation,

unaffected by weather ...


## Japan Plans to Beam Solar Power from Space to Earth

The energy beamed from space won't be enough to run more than a coffee maker--but if all goes to plan, Japan will soon make history by transmitting solar power ...

## Japanese satellite will beam solar power to Earth ...

Japan will test solar power transmission from space in 2025 with a miniature space-based photoelectric plant that will wirelessly ...


## Japan Is Launching a Satellite That Beams Solar Power to Earth

In 2025, Japan will launch OHISAMA, a satellite that beams solar power down to Earth via microwaves. It's a small step for power output, but a giant leap toward uninterrupted, ...

## OHISAMA project by Japan Space Systems Space ...

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## Japan Aims to Beam Solar Power from Space: The OHISAMA ...

If successful, OHISAMA could be the stepping stone to launching full-scale solar power stations in space, capable of generating up to 1 gigawatt of power--enough to run an ...

## Japan Aims to Beam Solar Power from Space: The ...

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## Japan Making History by Harnessing Solar Power From Space

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## Japanese satellite will beam solar power to Earth in 2025

Japan will test solar power transmission from space in 2025 with a miniature space-based photoelectric plant that will wirelessly transmit energy from low Earth orbit to Earth.

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## From Sunlight to Socket: Japan's OHISAMA Project Beams Solar Power ...

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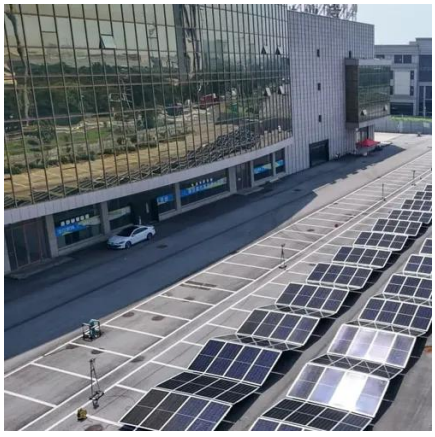
## Japan Has A Plan To Beam Energy Down To Earth From Space

Japan is preparing to launch a spacecraft that will send solar energy wirelessly from orbit to Earth. The satellite will beam down the solar power it captures, where receivers ...



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