

Space photovoltaic panels invented by Japan



Overview

PSCs were invented in Japan, with the first research paper published in 2009. PSCs are film-shaped solar cells made of a material whose crystal structure resembles that of a mineral called perovskite.

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Hubble is still going strong 35 years after it was launched into space. Celebrate its anniversary with some out-of-this-world images.

[These space stories made us look up in 2025](#)

Space is always inspiring and 2025 was no exception, with finding Betelgeuse's buddy, debuting a prolific survey telescope and more.



[Japan plans first space solar power test. Can it beam energy?](#)

OHISAMA (Japanese for "sun") will carry a two-square-meter solar panel and weigh roughly 400 pounds. Once in low Earth

[Japan's Solar Super-Panel-More Powerful Than 20 Nuclear Reactors!](#)

In a bold leap toward a greener future, Japan has unveiled its most ambitious renewable energy innovation yet: the



[What will space exploration look like under Trump?](#)

The future of U.S. space exploration and NASA-



[Japan unveils world's first solar super-panel: More powerful than 20](#)

This invention solves the problem of space limitation in Japan to generate maximum energy in urban areas. The flexibility of PSCs will also allow hybrid systems - wind and solar energy systems - to be

funded science is up in the air as President-elect Donald Trump prepares to return to office. "There's just so many question marks,"



[Japan Aims to Beam Solar Power from Space: The](#)

The OHISAMA satellite, weighing approximately 400 pounds (180 kg), is equipped with a compact but highly efficient solar panel measuring

[Japan Successfully Beams Solar Power from Space to](#)

Japan has achieved a breakthrough in renewable energy by wirelessly transmitting electricity from orbit to Earth for the first time. The Japan



[Science News , The latest news from all areas of science](#)

Science News features daily news articles, feature stories, reviews and more in all disciplines of science, as well as Science News magazine archives back to 1924.

Astronomy

A rare star in a tiny galaxy preserves a record of the early universe Found in an ultrafaint dwarf galaxy, the ancient star's unusual chemistry indicates it formed from gas enriched by a single



[Space missions spanned the solar system in 2024](#)

Humankind accomplished new feats in space this year, including scooping up some of the moon's farside and launching a probe to Jupiter's moon Europa.

[These are our top space images of all time](#)

Here are the best space pictures ever, from Hubble, the James Webb Space Telescope and more.



[About the SSPS|JAXA|Research and Development Directorate](#)

His idea was to deploy enormous solar panels in space together with a very large antenna to transmit the collected energy as microwave power. The solar energy would be converted into electricity,

[Japan's Long-Planned Photovoltaics: Space-Based Solar Power and](#)

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[Moss spores survived in space for 9 months](#)

The moss species *Physcomitrium patens* is the latest organism to survive an extended stay in the vacuum and radiation of space.

[How Japan Plans to Build an Orbital Solar Farm](#)

Imagine looking out over Tokyo Bay from high above and seeing a man-made island in the harbor, 3 kilometers long. A massive net is stretched



[Japan's Breakthrough: Transmitting Solar Power From](#)

Japan successfully transmitted solar power from space to Earth. Discover how this breakthrough could revolutionize renewable energy, its

[Japanese researchers want to demonstrate space](#)

A partnership between a private entity and Japan Aerospace Exploration Agency (JAXA) is working toward beaming solar power from space.



[Two astronauts stuck in space for 9 months have returned to Earth](#)

Astronauts Suni Williams and Butch Wilmore's extended stay in the International Space Station will add to what we know about how space affects health.

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