

Space Solar Power Station Foundation



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Space-Based Solar Power Development

Space-based solar power (SBSP), the concept of harvesting solar energy in space and wirelessly transmitting it to Earth, is experiencing a significant resurgence of interest driven by advancements in

[The Future of Energy: Unlocking the Potential of Space-Based Solar Power](#)

SBSP helps preserve ecosystems and agricultural areas on Earth by placing the main energy collection systems in space and eliminating the need for large ground-based solar arrays.



Space Solar Power Project

Our research solves the fundamental challenges associated with implementing space solar by integrating ultralight and shape accurate structures with high efficiency photovoltaics and large scale

Space Solar Power

Space Solar Power (SSP) comprises a constellation of satellites in space, collecting solar power and beaming it securely to receivers either on the Earth or in space. Its main attribute is the ability to





[The International Space Station lacks microbial diversity. Is it too clean?](#)

Hundreds of surface swabs reveal the station lacks microbial diversity, an imbalance that has been linked to health issues in other settings.

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.



Space-based solar power: A new frontier in US energy security

At a congressional staff briefing in Washington last fall hosted by the Space Frontier Foundation, experts warned that the United States risks falling behind China in this emerging

[China Eyes Military Use of Space Solar Power to Disrupt Adversaries](#)

China is redesigning its orbital solar power station for military use, including electronic warfare and battlefield power supply, potentially outpacing the U.S. in deploying space-based solar



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.

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.



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.

[China Eyes Space-Based Solar Power for Potential Military and](#)

China's space solar power project, Sun Chase, could provide energy and serve as an electronic warfare tool, jamming signals or securing networks.



[See how the Hubble Space Telescope is still revolutionizing astronomy](#)

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

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.





What will space exploration look like under Trump?

The future of U.S. space exploration and NASA-funded science is up in the air as President-elect Donald Trump prepares to return to office. "There's just so many question marks,"

[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.



Space-based solar power

SERT went about developing a solar power satellite (SPS) concept for a future gigawatt space power system, to provide electrical power by converting the Sun's energy and beaming it to Earth's surface,

Space-Based Solar Power

Utilizing SBSP entails in-space collection of solar energy, transmission of that energy to one or more stations on Earth, conversion to electricity, and delivery to the grid or to batteries for storage.



Space Solar Power - NSS

Your support for clean, limitless space solar power is now more critical than ever! Please donate today or join the National Space Society to learn how to help more directly.

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