

US Space Solar Power Plant



Overview

The facility, already producing solar modules for Airbus under a recently announced contract with mPower, is the first automated, high-volume solar module manufacturing facility for space in the world, and represents a major step forward today in delivering space-ready . The facility, already producing solar modules for Airbus under a recently announced contract with mPower, is the first automated, high-volume solar module manufacturing facility for space in the world, and represents a major step forward today in delivering space-ready . Space-based solar power (SBSP or SSP) is the concept of collecting solar power in outer space with solar power satellites (SPS) and distributing it to Earth. Its advantages include a higher collection of energy due to the lack of reflection and absorption by the atmosphere, the possibility of very . This study evaluates the potential benefits, challenges, and options for NASA to engage with growing global interest in space-based solar power (SBSP). The spaceborne testbed demonstrated the ability to beam power wirelessly in space; it . Initial Capacity of 1 MW/Year to Double by Mid-2026 ALBUQUERQUE, N. 11, 2025 /PRNewswire/ -- mPower Technology, Inc. ("mPower"), the solar technology company transforming space power with its DragonSCALES™ solar modules, today announced the official launch of a new high-volume solar module . The ability to develop, deploy and use government and commercial space solar power (SSP) and wireless power transmission (WPT) systems safely, securely, and sustainably is vital to combating the global threats posed by climate change, to maintaining and advancing United States strategic leadership .

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[China reveals military capabilities in new space solar power plant](#)

Unlike solar panels on the ground, which are limited by weather, seasons and the day-night cycle, space-based systems can collect sunlight almost continuously. The energy is converted into

Space Solar Power Project Ends First In-Space Mission with

Now, with SSPD-1's mission in space concluded, engineers on Earth are celebrating the testbed's successes and learning important lessons that will help chart the future of space solar power.



[GCL Optoelectronic targets 2026 IPO, US plant, space solar rollout](#)

PV Magazine 2026-04-07: GCL Technology says its GCL Optoelectronic subsidiary plans a Hong Kong initial public offering (IPO) in 2026, alongside a potential 500 MW factory in the United

Space-Based Solar Power for U.S. Energy Independence

Unlike terrestrial solar and wind, SBSP offers uninterrupted power generation and delivery, which can help alleviate grid intermittency and reduce the strain on existing infrastructure.



Space-based solar power



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

The idea of capturing solar energy in space is not new. American aerospace engineer Peter Glaser first proposed the fundamentals for the concepts in 1968. His work established the



[Presidential Policy Directive National Strategy for Space Solar](#)

By the late-2020s, develop, deploy and operate a space solar power pilot plant system delivering net zero carbon power to one or more markets on Earth at 100 MW or greater, and scalable to 1 gigawatt

[Rocket Lab to Supply Solar Power for United States Space Force's](#)

Founded in 1998 and acquired by Rocket Lab in January 2022, Albuquerque, New Mexico-based SolAero has produced solar cells, solar panels, and composite structural products for more than



[Space Manufacturing Milestone: First Automated High-Volume Space](#)

The facility, already producing solar modules for Airbus under a recently announced contract with mPower, is the first automated, high-volume solar module manufacturing facility for

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.



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