

# Wireless Solar On-site Energy





## Overview

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Can space solar power be transmitted to Earth?

A space solar power prototype, SSPD-1, has achieved wireless power transfer in space and transmitted power to Earth. The prototype, including MAPLE, a flexible lightweight microwave transmitter, validates the feasibility of space solar power, which can provide abundant and reliable power globally without ground-based transmission infrastructure.

How do solar power stations work?

These stations aim to harness solar energy from space and transmit it wirelessly to Earth, providing continuous, large-scale power without the limitations of terrestrial solar systems. The process involves several complex components, including solar panels, wireless energy transmission systems, and receiving stations on Earth.

What is space solar power?

Space solar power provides a way to tap into the practically unlimited supply of solar energy in outer space, where the energy is constantly available without being subjected to the cycles of day and night, seasons, and cloud cover—potentially yielding eight times more power than solar panels at any location on Earth's surface.

How will a solar energy system work?

It will then use infrared lasers to transmit that power to utility-scale solar farms on Earth, allowing them to send power to the grid nearly round the clock. Overview has raised \$20 million to date, and part of that money has gone toward an airborne demonstration of its power-beaming technology.



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