

# Satellites become solar power generators



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## Overview

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The concept, first proposed by Peter Glaser in 1968, is simple: It involves placing large satellites with solar panels in geostationary orbit, some 36,000 kilometres above the Earth. Here, they bask in uninterrupted sunlight, 24/7. 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). Did You Know?

Every hour, more solar energy reaches the Earth than humans use in a year. Solar power would be collected in space and then beamed down through lasers wirelessly to a network of small, ground power stations. Now technically and economically viable, space-based solar power (SBSP) could be a new abundant sustainable energy source.

## Satellites become solar power generators

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### [Why we need space-based solar power \(SBSP\) , World Economic Forum](#)

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### **Space power: The dream of beaming solar energy from orbit**

Harvesting solar energy in orbit and beaming it down to Earth is a decades-old idea. Now, a raft of companies say they could make it a reality.



### [Space startup beams solar power to Earth with laser satellites](#)

What sounds like science fiction is becoming reality as California startup Aetherflux prepares to launch satellites that capture solar energy in space and beam it back to Earth using

### [California startup Aetherflux is testing space-based solar farms](#)

A California-based startup is launching space-based satellites into orbit that will beam solar energy back to Earth using lasers.



### **Space-based solar power**

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.

## The Use of Satellite Technology in Space Based Solar Power

One of the most promising frontiers in renewable energy is Space-Based Solar Power (SBSP). This revolutionary concept proposes using satellites to harness solar energy in space and



## [Satellite beams solar power down to Earth, in first-of-a-kind](#)

Researchers have taken a small but necessary step toward realizing a long-standing dream: harvesting solar energy in space and beaming it down to Earth.

## Space-Based Solar Power

Since clouds, atmosphere and nighttime are absent in space, satellite-based solar panels would be able to capture and transmit substantially more energy than terrestrial solar panels.



## Space-Based Solar Power

Increasing the efficiency of solar cells decreases the size and mass of a space solar power system required to create the same output power. This decrease in size affects both hardware development

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

These orbiting satellites, like their terrestrial counterparts, are equipped with enormous arrays of photovoltaic (PV) cells that directly convert solar energy into electricity.



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