

# Space-based solar power generation power



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### 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.

### [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.



### [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.

### Astronomy

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



### 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.



## 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.



## [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,"

## 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.



## 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.

## [The Future of Energy: Unlocking the Potential of Space](#)

The idea, which involves gathering solar energy in orbit and sending it wirelessly to Earth, is recently regaining traction due to the growing demands



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