

# NASA Solar Power Station



## Overview

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The Power and Propulsion Element generates 60 kilowatts of electricity for lunar orbit operations. Advanced solar arrays and electric thrusters enable sustainable deep space exploration, supporting Artemis missions and future Mars exploration initiatives.

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### Rocket Lab Delivers Final Solar Panels for NASA

Critical to one of the world's largest solar array assemblies, the solar panels will enable NASA's Gateway lunar space station to be the most powerful



### [NASA Artemis II heads home with Pacific splashdown off California](#)

NASA's Artemis II mission is returning to Earth after its lunar flyby. Here's when and how to watch its splashdown off the California coast.

### [Artemis II splashdown live updates as NASA mission returns to Earth](#)

NASA's Artemis II astronauts are set to return to Earth with a splashdown landing in the Pacific Ocean after making a high-speed reentry through the atmosphere.



### [NASA Prepares for Artemis II Splashdown After Historic Moon Flyby](#)

The mission is seen as a key step toward resuming crewed lunar landings. Artemis II's four astronauts are scheduled to land in the waters off Southern California on Friday.



### [Massive Solar Engine Powers NASA's Lunar Gateway Station](#)

Built by Lanteris Space Systems and overseen by



## NASA Powers Up a Massive Solar Engine for the Moon

NASA's Gateway is coming to life with a solar-powered spacecraft built to light it up-and move it around the Moon.

NASA's Glenn Research Center, this massive solar engine successfully powered on in 2025. Advanced electric thrusters and rollout solar



[Watch NASA's Artemis 2 astronauts return to Earth live online today](#)

Live coverage of Artemis 2's splashdown begins this evening as four astronauts return from their historic 10-day mission around the moon.

[NASA's Artemis II Live Mission Coverage \(Official Broadcast\)](#)

This feed will provide continuous coverage of Artemis II mission activities with live commentary, beginning with tanking of the SLS (Space Launch System) rocket at NASA's Kennedy



## Space-based solar power

OverviewHistoryAdvantages and disadvantagesDesignLaunch costsBuilding from spaceSafetyTimeline

In 1941, science fiction writer Isaac Asimov published the science fiction short story "Reason", in which a space station transmits energy collected from the Sun to various planets. The SBSP concept, originally known as satellite solar-power system (SSPS), was first described in November 1968. In 1973 Peter Glaser was

granted U.S. patent number 3,781,647 for his method of transmitting power over long distances (e.g. fro

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### [How to watch NASA's moon mission splash down off San Diego today](#)

NASA's Orion spacecraft for the Artemis I mission was successfully recovered inside the well deck of the USS Portland on Dec. 11, 2022, off the coast of Baja California.

### [Artemis II splash landing LIVE: Watch, what to know, timing on NASA](#)

NASA's Artemis II will make a splash landing off the coast of San Diego. Here's how, when and where to to watch the live stream in Dallas.



### [Riskiest moments of NASA's Artemis II mission are still ahead as](#)

The four astronauts who flew around the moon on NASA's Artemis II mission are nearly home, but one of the most dangerous and nerve-racking parts of the mission is still ahead. Subscribe

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