

Solar power station built on the moon



Overview

Luna Ring is a speculative engineering project which consists of a series of solar generators, disposed around the equator of the Moon, that could send the generated electric energy back to the Earth via microwaves from the near side of the Moon. [1] . Massive Solar Engine powers NASA's lunar Gateway station. 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. In April 2025, China reportedly unveiled plans to build a nuclear power plant on the Moon by 2035. Credit: NASA Work is steadily advancing on NASA 's Power and Propulsion Element, a solar electric propulsion spacecraft that will serve as the main power source for Gateway as it. NASA is wrapping up the initial phase of its Fission Surface Power Project, which focused on developing concept designs for a small, electricity-generating nuclear fission reactor that could be used during a future demonstration on the Moon and to inform future designs for Mars. That's why the agency created its Fission Surface Power Project. The project just finished its. The near side of the moon, from where energy would be beamed to Earth, according to the Luna Ring project.

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PUSUNG-R (Fit for 19 inch cabinet)



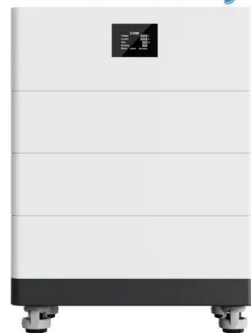
[Massive Solar Engine Powers NASA's Lunar Gateway Station](#)

Built by Lanteris Space Systems and overseen by NASA's Glenn Research Center, this massive solar engine successfully powered on in 2025. Advanced electric thrusters and rollout solar ...

[NASA Plan to Put a Nuclear Reactor on The Moon Edges](#)

In the distant future, after the systems have gone through their "baptism by fire" on the Moon, NASA will likely redesign a nuclear fission reactor specifically for use on Mars.

High Voltage Solar Battery



[NASA plans to put a nuclear reactor on the moon by 2030 : NPR](#)

Spacecraft orbiting the Earth or stationed on the moon are typically powered by solar panels. But for any long-term human occupation of the moon, solar power alone won't be enough



[Analysis: Why NASA is planning to build a nuclear reactor on the Moon](#)

Nuclear power could be the linchpin for long-term human activity. And it's not just about the Moon - developing this capability is essential for missions to Mars, where solar power is even



[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.



[Why the U.S. Is Building a Nuclear Reactor on the Moon](#)

A reactor provides consistent, reliable power -- something solar panels simply can't do at that scale, especially during the two-week-long lunar night. NASA is partnering with the U.S. ...



[ESA Lunar Solar Power Satellite Concept](#)

But Space-Based Solar Power can also work for the Moon. As part of ESA's Open Space Innovation Platform Campaign on 'Clean Energy - New Ideas for Solar Power from Space', a study ...



[Nasa to build nuclear reactor on the Moon by 2030](#)

US space agency Nasa will fast-track plans to build a nuclear reactor on the Moon by 2030, according to US media. It is part of US ambitions to build a permanent base for humans to live ...



[NASA's Fission Surface Power Project Energizes Lunar Exploration](#)

NASA is wrapping up the initial phase of its Fission Surface Power Project, which focused on developing concept designs for a small, electricity-generating nuclear fission reactor that could be ...



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