



# Is the super telescope powered by solar energy

Do solar panels power the James Webb Space Telescope?

Today, solar panels power the James Webb Space Telescope, which offered the world the most detailed look into the most remote reaches of the universe to date. The James Webb Space Telescope. NASA launched the Webb Space Telescope on Christmas Day 2021. The telescope uses less power than one might think.

How far will NASA's James Webb Space Telescope stay energy-efficient?

Thanks to its solar array, NASA's James Webb Space Telescope will stay energy-efficient more than 1 million miles (1.5 million kilometers) from Earth. Webb's 20-foot (6-meter) solar array was recently attached to the main observatory for one of the final times before launch.

How does the James Webb Space Telescope solar array work?

The solar array is folded and installed onto the James Webb Space Telescope for one of the final times before launch. The solar array is made up of five panels that are hinged together to easily fold up and stow in Webb's launch vehicle, the Ariane 5 rocket.

How much power does the Webb Space Telescope use?

NASA launched the Webb Space Telescope on Christmas Day 2021. The telescope uses less power than one might think. In fact, only one kilowatt, equivalent to the power used in microwaving your lunch, is needed to power the device. NASA said Webb will stay energy efficient more than 1 million miles from Earth, reliably powered by photovoltaics.

How will NASA's Webb telescope work?

NASA said Webb will stay energy efficient more than 1 million miles from Earth, reliably powered by photovoltaics. A 20-foot fold-out solar array is attached to the main observatory of the craft. It will act as the 'powerhouse' for the telescope, supplying energy to all its scientific instruments, communications, and propulsion systems.

How much energy does Webb's solar array use?

The "powerhouse" of the telescope, the array will supply energy to all of the telescope's scientific instruments and communication and propulsion systems. While Webb will only use 1 kilowatt of power, the solar array is capable of generating nearly double that amount to factor in the gradual wear and tear of a harsh space environment.

One kilowatt is about what it takes to heat up some leftovers in a microwave -- or to power the largest and most technically advanced telescope ever built. Thanks to its solar array, NASA's James Webb Space Telescope ...



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More information: LHAASO Collaboration, An ultrahigh-energy  $\gamma$ -ray bubble powered by a super PeVatron, Science Bulletin (2023). DOI: 10.1016/j.scib.2023.12.040 Provided by Chinese Academy of Sciences

The James Webb Telescope, developed in a collaboration between NASA, the European Space Agency and the Canadian Space Agency, is on its way. About 30 minutes after launch from French Guiana on December ...

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Now a large group of astronomers from all over the world is building the biggest optical telescope ever--the Extremely Large Telescope (ELT)--in Chile. Once construction is completed in 2028, it...

Researchers have designed a new solar power module that uses a curved mirror to focus sunlight onto a 5-inch glass ball that then spreads the light evenly across a solar ...

The Swedish Solar Telescope at Roque de los Muchachos Observatory, La Palma in the Canary Islands. A solar telescope or a solar observatory is a special-purpose telescope used to observe the Sun. Solar telescopes usually detect ...



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