

# Solar power satellite factory in Uk





## Overview

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Could a UK startup beam solar energy from space to Earth?

A UK startup has claimed a major breakthrough in its plans to beam solar energy from space to Earth. At a lab in Belfast, Oxford-based Space Solar managed to light up an LED sign by wirelessly beaming energy through the air, from all angles. This marks the world's first 360-degree wireless power transmission, said the startup.

Could space solar be the world's first solar-beaming satellite?

The Department of Energy Security and the UK Space Agency has provided grant funding for the development of Space Solar's first satellite. Once established, solar-beaming satellites of the scale planned across the world could generate around 2GW of round-the-clock electricity, enough to power more than one million homes.

When will solar power satellites be available in the UK?

The first generation of Solar Power Satellites would be in operation by the mid 2040s, replacing a substantial proportion of the UK's legacy fossil fuel energy generation capacity. Research into key opportunities and development of capability and knowledge in an open environment.

Can space-based solar power be developed?

There is significant potential for the space and energy sectors to work together to support the development of space-based solar power, and the UK Space Agency has contributed £1 million to these innovative projects to help take this revolutionary concept to the next level.



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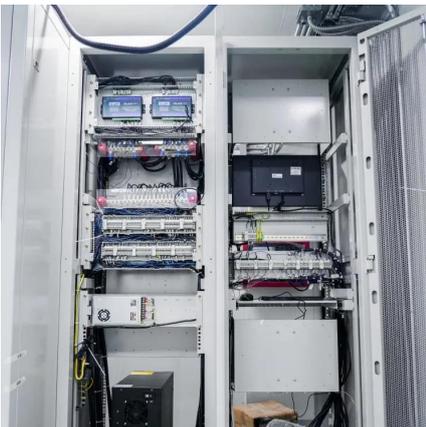
### [UK's AlbaTRUSS Project Tests Robotic Space Construction](#)

Jun 3, 2025 · UK's AlbaTRUSS project tests robotic assembly for space solar power, paving the way for kilometre-scale satellites without astronauts.



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### [UK Company Achieves Historic Solar Breakthrough Beaming ...](#)

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**Space Solar**

Space-Based Solar Power is the concept of harvesting solar energy in space and beaming it to earth continuously, safely and securely. Solar Power Satellite The system comprises a ...

[Space Energy Initiative, Space-Based Energy solutions to ...](#)

We recognise the challenges of Net Zero, and the need for new baseload energy technologies to complement our intermittent renewables. The SEI will lead the development of Space Based ...



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