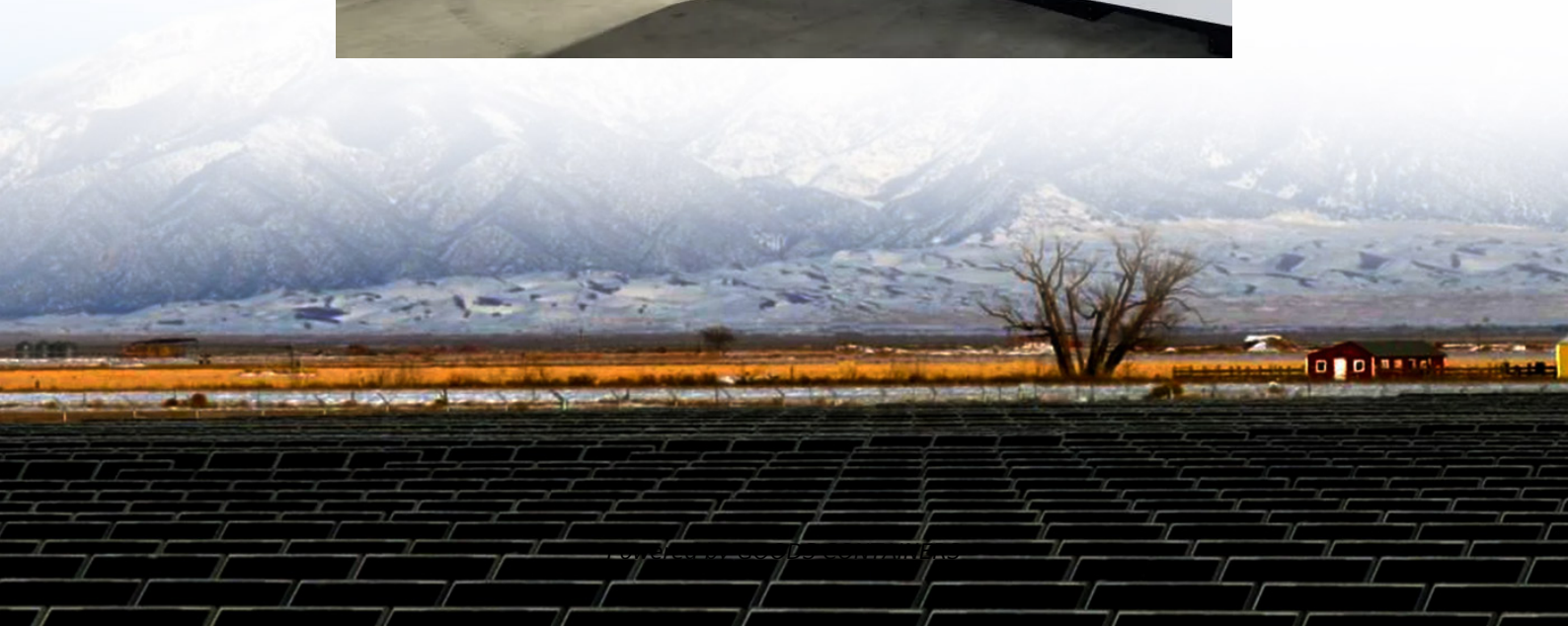


Solar power satellite factory in London





Overview

How does space solar 'Harrier' work?

The system electronically steers its energy beam 360 degrees, eliminating moving parts. The "Harrier" demonstrator enabled Space Solar to successfully develop and test its power beaming technology. Space Solar.

Could space based solar power help the UK deliver net zero?

This energy generation must at the same time remain affordable, reliable and secure if our economy is to thrive. Space Based Solar Power offers a range of characteristics which could help the UK deliver Net Zero, with a new source of abundant, sustainable power.

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.

Is UK's space-based solar power industry preparing for lift-off?

The UK's space-based solar power industry is preparing for lift off thanks to a multi-million government investment to develop the cutting-edge technology.



Solar power satellite factory in London



[UK shoots for the stars as space-based solar power prepares ...](#)

Jun 13, 2023 · The UK's space-based solar power industry is preparing for lift off thanks to a multi-million government investment to develop the cutting-edge technology. In a speech at London ...

"13 Times More Power From Space": UK Company Achieves Historic Solar

May 18, 2025 · UK-based startup Space Solar has achieved a significant breakthrough in renewable energy technology by successfully testing its innovative power-beaming system, ...



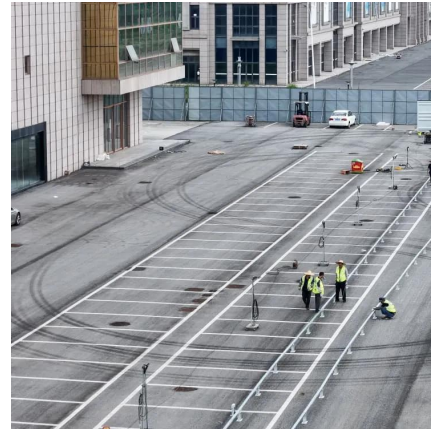
[UK Company Achieves Historic Solar Breakthrough Beaming ...](#)

May 24, 2025 · The project evaluated every component of Space Solar's power-beaming architecture, from the in-space assembly of solar arrays to the ground-based receivers that will ...



[UK startup building solar power beaming tech for space ...](#)

May 15, 2025 · Three year old Space Solar has completed an 18-month engineering design and development project for key parts of its modular space-based solar power system.



[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 ...



[Shanghai Electric Launches 128MW UK Solar-Plus-Storage](#)

Jan 5, 2024 · Shanghai Electric has completed two renewable energy projects in the UK: REP1& 2 BESS and Fiskerton II-A solar site. Generating 128,117 MWh of green energy annually, these ...



UK robotics breakthrough sets hopes for future space-based solar power

May 29, 2025 · Space Solar is targeting 2029 for the launch of its first 30-megawatt demonstrator, with complete gigawatt-scale satellite systems expected by the early 2030s. These ambitious ...



[UK firm beams space solar breakthrough: 13x more power ...](#)

May 15, 2025 · UK firm beams solar breakthrough: 13x more power sent from space down to Earth The system electronically steers its energy beam 360 degrees, eliminating moving parts.



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