

# Solar system operation capabilities



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### Planning and Operation

SETO funds research and development projects that aim to enhance system planning and operation capabilities that enable two-way power flow, optimal control, protection coordination, and seamless ...

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### How Does Solar Work?

Below, you can find resources and information on the basics of solar radiation, photovoltaic and concentrating solar-thermal power technologies, electrical grid systems integration, and the non ...



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### A narrative review of solar electric propulsion for space missions

Solar electric propulsion offers significant advantages for modern satellite and spacecraft operations, but it also presents unique safety challenges that must be addressed.

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## Solar Electric Propulsion

The project aims to demonstrate key technologies necessary for robotic and human exploration-class transportation systems as well as highly efficient orbit transfer capabilities for ...

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## Space-Based Solar Power

Utilizing SBSP entails in-space collection of solar energy, transmission of that energy to one or more stations on Earth, conversion to electricity, and delivery to the grid or to batteries for storage.

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## Solar Electric Propulsion , L3Harris® Fast. Forward.

In addition to satellite operations, SEP systems are key to enabling future crewed deep space missions. L3Harris is developing advanced electric propulsion systems that will enable humans to go back to ...

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## Deep Space Exploration

The spacecraft and systems that we design, build and operate have been a



part of exploring every planet in our solar system. They have landed on Mars, executed tiny orbits around asteroids, flown ...

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## Spacecraft Electrical Power Systems

Peak power trackers are used to maintain optimum power regulation out of the solar array. They typically consist of a high side and low side switch, depending on the design and algorithm selected.



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