

# Solar Propulsion Module System



## Solar Propulsion Module System

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### [An Electric Solar-Powered Future: Maxar Space Systems' PPE to](#)

Maxar Space Systems is building Gateway's Power and Propulsion Element (PPE), the module that will provide the space station with power, maneuvering, attitude control, and

### [A narrative review of solar electric propulsion for space missions](#)

Solar Electric Propulsion (SEP) is an advanced technology ideally suited for long-duration space missions requiring high efficiency and low-thrust propulsion. SEP systems generate propulsion

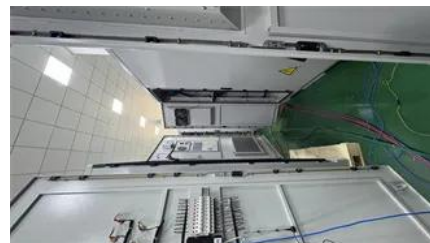


### [Solar Electric Propulsion: Introduction, Applications and Status](#)

Why Consider Solar Electric Propulsion? Some Factors Influencing Spacecraft Mass Allocations: Mission: DV, duration, environments Technology changes: launcher size/capability, payload

## Solar Electric Propulsion

With SEP, the spacecraft collects energy from the Sun via solar arrays to generate thrust, eliminating many of the needs and limitations of storing propellants onboard. That solar energy is



## Solar electric propulsion



### [NASA Builds the Most Powerful Solar Electric Spacecraft Ever](#)

Work is underway to assemble Gateway's Power and Propulsion Element, the module that will provide energy and propulsion for NASA's lunar space station as it travels to and around the

Solar electric propulsion combines solar panels on spacecraft and one or more electric thrusters, used in tandem. There are many different types of electric thrusters, including a so-called ion thruster, a term



### **Advanced Electric Propulsion System**

High-power solar electric propulsion is a key technology that has been prioritized because of its significant exploration benefits in cis-lunar space and crewed missions to Mars.

### [Solar Electric Propulsion , L3Harris\(R\) Fast. Forward.](#)

NEXT-C: NEXT-C is a next-generation solar electric propulsion system designed and built by L3Harris based on mission-proven technology developed at NASA's GRC. The 7kW NEXT-C Ion System



### [Solar Electric Propulsion Modules and Bus](#)

Our unique 100kRad radiation tolerant Electric Power System bridges the power and propulsion with a lightweight, high efficiency power distribution and power processing unit. The system efficiently and

## [NASA Starts Up Gateway's Power System for First Time](#)

Development continues on NASA's Power and Propulsion Element, a solar electric propulsion spacecraft designed to provide power for Gateway in lunar orbit. Able to generate 60



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