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# Solar Electric Propulsion System

What is solar electric propulsion?

NASA Glenn leads the Solar Electric Propulsion project for the agency. Meet Dr. Peter Peterson, an electric propulsion engineer at NASA's Glenn Research Center. Electric propulsion technologies deliver the right mix of cost savings, safety and superior propulsive power to support a variety of next-generation journeys to destinations in deep space.

What is NASA's solar electric propulsion (SEP) project?

NASA's Solar Electric Propulsion (SEP) project is developing critical technologies to enable government and commercial customers to extend the length and capabilities of ambitious new exploration and science missions.

What is space nuclear propulsion?

Space nuclear propulsion is an exciting and advanced technology that aims to revolutionize space travel. The center is working on advanced power systems, such as solar electric propulsion and fission surface power, to ensure reliable energy sources for long-duration missions.

What is the advanced electric propulsion system?

Testing of Gateway's revolutionary propulsion system, known as the Advanced Electric Propulsion System, begins at NASA's Glenn Research Center. In-space electric propulsion systems, such as SEP, tout extremely high fuel economy at lower thrust, providing mission flexibility and capabilities not achievable using traditional propulsion systems.

Solar electric propulsion (SEP) system technology has reached a critical state of development. All system elements known to be required for typical spacecraft concepts are ...

oSystem Challenges oSummary 1 What is Solar Electric Propulsion? Use of solar electric power to create and accelerate ions to exhaust velocities >5x chemical rockets 2 ...

How SEP Works In-space electric propulsion systems, such as SEP, tout extremely high fuel economy at lower thrust, providing mission flexibility and capabilities not achievable ...

Discover the benefits and applications of Solar Electric Propulsion in space exploration, enabling more efficient and longer-duration missions.

Solar electric propulsion systems with or without plug-in charging capabilities are the core of our technology. The unique combination of integral system ...

We have shown that a mission to Mars using a solar electric propulsion (SEP) system is feasible with current technology. A comprehensive analysis of the available state of ...

Built by Maxar Space Systems, the Power and Propulsion Element will make Gateway the most advanced solar electric spacecraft ever flown. Once in lunar orbit, Gateway ...

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Futuristic electric thrusters emitting a cool blue glow will guide the Psyche spacecraft through deep space to a metal-rich asteroid.

Abstract: In support of the BepiColombo mission to Mercury, a qualification programme for the Solar Electric Propulsion Thruster (SEPT) and Solar Electric Propulsion ...

Solar Electric Propulsion refers to a propulsion system that utilizes ion thrusters powered by solar energy to generate thrust for space missions. AI generated definition based ...

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