

What is Solaren SSP?

Solaren has engineered zero emission electricity from space for Earth's future. Over the next decade, we will develop, launch, test, and operate the world's first space solar power plant and sell electricity to a utility customer. The SSP Overview describes how Solaren SSP works and its benefits.

How does Solaren's patented SSP plant work?

Solaren's patented SSP plant design uses satellites in Earth orbit to collect solar energy in space and generate power, which is transmitted to the ground receive station for conversion to electricity for delivery to PG&E. Specifically Solaren's SSP satellites use solar cells in space to convert the sun's energy to electricity.

What does Solaren do?

Solaren has engineered cost competitive, zero emission electricity from space. Over the next decade, we will develop, launch, and operate the world's first SSP plant and sell electricity.

What are the essential elements of a Solaren SSP plant?

The essential elements of a Solaren SSP Plant are the solar power satellite (SPS) system, the ground receive station (GRS), and the SSP plant command and control center. SPACE SOLAR POWER BENEFITS

Does Solaren have a patent?

Solaren holds key enabling SSP system patents in the United States, the European Union, China, Japan, India, Canada, and Federation of Russia. HOW SOLAREN SPACE SOLAR POWER PLANTS WORK The Sun's radiant energy is approximately 1,365 watts per square meter in earth orbit.

How much will Solaren's solar power plant cost?

The entire project is likely to cost a few billion dollars, Spirnak said. Solaren expects its power plant to convert about 50 percent of the sunlight into electricity, and about 80 percent of that into radio waves. Its receiver station should be able to convert 85 percent to 90 percent of the radio waves back to electricity.

A space solar power prototype has demonstrated its ability to wirelessly beam power through space and direct a detectable amount of energy toward Earth for the first time. The experiment proves ...

Solaren's chief executive officer, Gary Spirnak, said the project would be the first real-world application of space solar power, a technology that has been talked about for ...

Solaren is a California C Corporation that formed in 2001 and is based in Manhattan Beach, CA. Solaren was formed by a team of satellite engineers and space ...

Electricity Sales Group. The Solaren Electricity Sales Group negotiates power purchase agreements (PPA) with customers for our SSP electricity. Several factors increase the value of our electricity sales: 1) Ability to

provide ...

Pacific Gas & Electric Co. (PG& E) revealed that it has signed a power purchase agreement with California-based startup Solaren Corp., to buy up to 200MW of solar space energy, according ...

Space Solar Power Benefits. Solaren's revolutionary system design makes all-weather, 24/7, zero emission space solar power (SSP) available at a cost and on a scale that can replace coal, ...

Provide clean power for the planet, high reliability electricity generation for our customers and outstanding returns for our investors. Design, develop, launch, and operate the world's first ...

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Developing specialized infrastructure for efficient satellite deployment and energy transmission in space operations. Wilmington, Delaware, United States, Jan. 09, 2024 (GLOBE ...

About Solaren. Business Description: Headquartered in Manhattan Beach, CA, Solaren is a combination energy and aerospace company that is engaged in the design, development, ...

Solaren Space Solar Power (SSP) Converts Sunlight in Space to Electricity on Earth The Sun's radiant energy is approximately 1,365 watts per square meter in earth orbit. In geostationary ...

Solaren's breakthrough space solar power (SSP) plants will change the world of aerospace and clean energy. Join Solaren and you will work with our innovative team, and help pioneer the ...

Headquartered in Manhattan Beach, California, Solaren is an energy and aerospace company that is principally engaged in the research, design, development, integration and ...

Dr. Jim Rogers has over forty-five years of aerospace industry experience, and is a co-founder of Solaren Corporation, the first commercially viable space solar power company. As Solaren Vice President and Chief Engineer, Dr. Rogers ...

Cost Competitive Space Electricity. Ground Receive Station Operations: The Ground Receive Station (GRS) collects the RF Power Beam from the Solar Power Satellite (SPS) system, and directly converts it to electricity to transmit ...

Solaren is focused on the design, development, integration, deployment, and operation of space-based solar power plants intended to deliver clean, renewable electricity. Ground Receive Station: A facility designed to receive solar power ...

The utility requested that the PUC consider the 200 MW of power purchased from Solaren's new space solar power project, anticipated for completion by 2016, as eligible for its Renewables ...

Space Solar Power (SSP) ... Solaren SSP Plant Operations generates power via Solar Power Satellites and safely delivers that power to the appropriate Ground Receive Station for direct conversion to electricity, and transmission to the ...

Solaren Corporation; Azur Space Solar Power GmbH; SolAero Technologies Corporation; Rostec Corporation; SpaceTech GmbH; Frazer-Nash Consultancy; Top 10 ...

Spirnak's company is approved as a solar energy provider in California, and has had past supply arrangements with Pacific Gas and Electric, but its business model is ...

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