SunPower® Oasis®
Solar Power Plant

Superior performance and reliability at a competitive cost of energy.
We make the complex simple

Building a successful power plant—one that delivers competitive cost of energy and long-term value—is a complicated undertaking. How can your team ensure that the project design optimizes site use? Are there ways to minimize construction time and costs? Will the technology meet long-term energy production goals? All these and more must come together to realize the financial goals of the project.

A key factor of success is the power plant technology. Faulty components are one of the leading causes of failures. And field studies have shown that 55% of solar power plant defects can be attributed to faulty installation.1 A well-engineered system uses innovative design and high-quality parts to minimize mistakes and increase reliability.

The SunPower® Oasis® platform delivers a fully integrated solution that addresses the areas of highest risk in order to maximize production, reduce cost of energy and generate predictable cash flow for the life of the system.

Trusted by leading energy providers

SunPower has been building, financing and providing O&M for solar power plants for more than a decade, longer than any other company. More than 3GW of solar power plants are operating today using SunPower technology.

Our unique experience enables us to engineer solar technologies that solve complex construction challenges, reduce costs and time to operation, and enhance long-term energy production. Plus, as an affiliate of Total, SunPower offers recognized financial strength and unrivaled expertise in new and emerging solar power plant markets.

“This system dramatically simplifies utility scale solar. SunPower has optimized every component of the power plant, reducing not only components costs, but construction installation costs.”

—Mike Little, Executive Vice President at Moss

SunPower technology powers a number of large solar projects around the world.
SunPower® Oasis® Solar Power Plant

SunPower® Oasis GEO™ Drone
Automated drone surveys the site topography and identifies all viable tracker locations.

Remote Operations Control Center (ROCC)
Delivers 24/7/365 real-time performance monitoring and control.

SunPower Performance Series (P-Series) Panel
Innovative design produces more energy and lasts longer than conventional panels.

Panel Cleaning Robot
Works 10x faster than manual methods and uses 75% less water.

Optimized Tracker
Shorter, wider design easily fits tight corners and steep slopes for greater energy density.

Renders and optimizes site design to maximize energy density.
Superior solar technology at a competitive cost of energy

When you choose the SunPower® Oasis® platform you're making an investment that pays back across the lifetime of the project—from reduced design time to predictable long-term performance. Every component is engineered to produce a competitive cost of energy, add value to your experience and instill confidence.

Rapid Site Optimization

Integrated drone and software quickly identify the optimal design for your goals from thousands of scenarios, maximizing your production (and confidence) in a fraction of the time.

- Get proposal-ready site assessments 90% faster
- Shorter tracker fits more power into unusual contours and steep slopes
- Software and hardware produce up to 60% more power through optimal use of space

Faster Construction

Integrated platform uses about half the number of parts of a conventional system, reducing construction man hours and time to operation.

- 56% fewer mechanical parts, including 50% fewer piles and no combiner boxes, cable trays, tracker batteries or dampers
- No trenching required, preconfigured DC electrical
- One supply chain and logistics partner for simplified processes

More Lifetime Energy

Every part of the Oasis platform is engineered to maximize energy yield, delivering a more efficient, reliable solution for long-term energy production.

- Up to 67% more lifetime energy density thanks to module and tracker design
- P-Series modules deliver higher performance in row-to-row shading, enabling closer row spacing and more modules in the same area
- ±60° inline power tracker rotation with 99% aperture efficiency

Predictable Long-Term Performance

With more than 2.5GW under management, our expert Operations & Maintenance team leverages tracker-level performance data to monitor and quickly address any drops in performance.

- 24/7/365 remote monitoring by SunPower’s Remote Operations Control Center
- Clean 10x faster and without site disruption by using panel cleaning robots
- Wide row spacing enables easy access for O&M and dual use with agriculture

Visit sunpower.com/oasis

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