

OREGON SOLAR HIGHWAY

THE FIRST SOLAR HIGHWAY DEMONSTRATION PROJECT IN THE NATION

In 2008, the Oregon Department of Transportation (ODOT) completed the nation's first solar photovoltaic project in the highway right-of-way, lighting an interchange. The 594 solar panels produce nearly 112,000 kilowatt hours annually and use the utility grid as a battery, supplying energy during the day to light the interchange at night. The project was completed December 19, 2008, just 135 days after agreements were signed. The prototype project cost \$1.28 million, but through an innovative public-private partnership with Oregon's largest utility – Portland General Electric – ODOT pays no more than it would pay for power from the grid. The project demonstrates that solar arrays can complement and not compromise the transportation system. Oregon's state transportation system has nearly 19,000 lane miles of right-of-way and there are more than 8 million lane miles of right-of-way across the nation. Solar arrays on less than 1% of Oregon's right-of-way could supply the nearly 50 million kilowatt hours needed annually by the state transportation system. The power of the future is here today.

FAST FACTS:

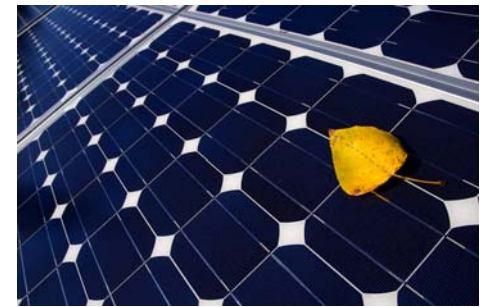
Prototype Cost: \$1.28 million
ODOT Power Cost: Grid Parity (*no more than it would pay the utility*)
Project Capacity: 104 kilowatts (dc)
Electricity Production: 112,000 kilowatt hours (ac) annually
% of Interchange Powered: 28%
Official Groundbreaking: August 7, 2008
Commissioned: December 19, 2008
Solar Project Dimensions: 9' tall by 540' long by 16' wide
Solar Panels: 594 panels
Solar Panel Manufacturer: SolarWorld AG, Hillsboro, Oregon

Inverter Manufacturer: PV Powered, Bend, Oregon
Designed, Constructed & Installed:
Aadland Evans Constructors Inc., Portland, Oregon, general contractor
Moyano Leadership Group Inc., Salem, Oregon, project manager and design leader (Emerging Small Business)
Advanced Energy Systems (AES), Eugene, Oregon, solar power specialty designer and installer (Emerging Small Business)
Good Company, Eugene, Oregon, community and sustainability specialist (Emerging Small Business)

Third-Party Owner/Operator: SunWay 1, LLC, managed by Portland General Electric (PGE)
Recognition: 2008 Transportation Project of the Year
Portland Chapter of WTS; AASHTO Biennial Environmental Excellence Award, Judges Award for Special Recognition

Location: I-5/I-205 Interchange ([Google Maps](#))

More Information: www.oregonsolarhighway.com



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