

ALPINE SOLAR PROJECT

PROJECT FACTSHEET



PROJECT QUICK FACTS

★ **ALPINE SOLAR PROJECT**
Lancaster, California

■ **PROJECT SIZE**
66 MW

■ **POWER PURCHASER**
Pacific Gas and Electric Company

■ **ANTICIPATED GROUNDBREAKING**
Summer 2011

■ **ANTICIPATED COMPLETION**
Mid-2012



Solar photovoltaic panels at NRG's Blythe Solar Project.

PROJECT OVERVIEW

NRG Energy, through its wholly owned subsidiary NRG Solar, is building the 66 megawatt (MW) Alpine Solar Project, which is on track to be the first large-scale solar project built in Los Angeles County and, upon completion, the largest operating photovoltaic (PV) facility in the state. Cost-competitive, renewable power generated by the facility will be sold to Pacific Gas & Electric under a 20-year power purchase agreement.

The project is located in northern Los Angeles County on disturbed land in a rural setting and within close proximity to the existing electric distribution system. The Alpine Solar Project is estimated to use less than 300 acre-feet* of water (predominantly for dust suppression) during the construction period—up to an 86% reduction from the land's previous use—and up to two acre-feet per year for module washing during operation (a 99% reduction from previous use).

The project provides the State of California with a new source of renewable energy to assist in achieving Renewable Portfolio Standards, while boosting the local economy by creating over 240 construction jobs. By generating clean renewable energy and avoiding any of the carbon emissions that would be produced by a fossil-fueled power plant, the Alpine Solar Project will contribute to cleaner air and result in a smaller carbon footprint for the state.

NRG Solar anticipates breaking ground on the Alpine Solar Project in the summer of 2011 and start of commercial operations in September 2012.

* unit of volume equal to one acre of surface area to a depth of one foot, or approximately 325,000 gallons

NRG Energy, a Fortune 500 company, is one of the nation's largest power generators, with a nationwide portfolio of diverse generation resources, including solar and wind. NRG Solar is developing two complementary technologies—photovoltaics and solar thermal—and owns a 21 MW solar facility in Blythe, Calif., one of the first modern, large-scale solar plants in the United States. Altogether, NRG Solar has more than 2,000 MW of solar projects under development or in construction across the southwestern United States.

PROJECT BENEFITS

- Zero-carbon generation will avoid the annual emission of 36,000 tons of carbon into the atmosphere, the equivalent of taking 6,600 cars off the road
- Will create more than 240 construction jobs
- Commercially proven solar technology
- Significantly reduced water consumption from previous land usage
- Efficient and environmentally friendly power generation
- Helps California meet renewable energy goals

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