

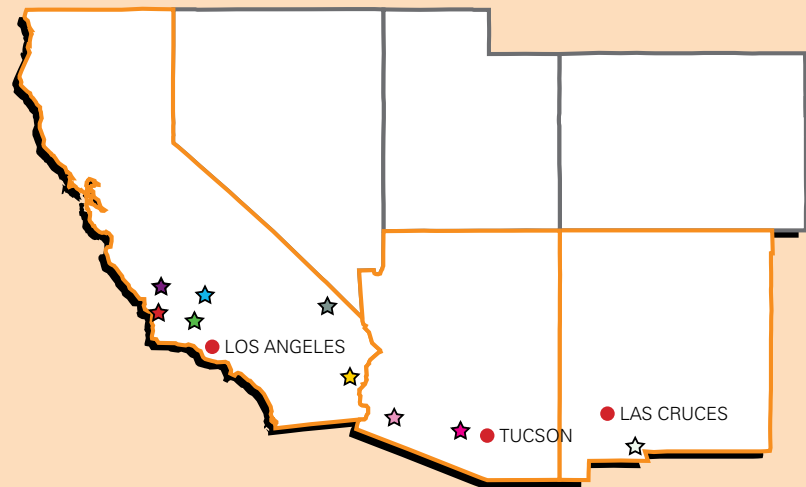
## ABOUT NRG SOLAR

**NRG Solar LLC**, a wholly owned subsidiary of NRG Energy, Inc., is developing a diverse portfolio of solar projects to produce clean, renewable electricity for utility and municipal customers.

At NRG Solar, our mission is to become the North American market leader in the technical planning, development, construction, financing and operations of multi-technology solar generation assets. Whether by using photovoltaic (PV) panels that convert sunlight directly into electricity, or by using thermal energy from concentrated solar power (CSP) to drive a steam turbine, NRG Solar utilizes the best solar technologies available to make the commercial use of solar generation a reality.

Visit [nrgsolarenergy.com](http://nrgsolarenergy.com) for more information.

## NRG SOLAR PROJECTS



- ☆ **Agua Caliente 290 MW (PV)**  
Yuma County, Arizona
- ★ **Alpine 66 MW (PV)**  
Los Angeles County, California
- ★ **Avenal 45 MW (PV)**  
Avenal, California
- ★ **Avra Valley 25 MW (PV)**  
Tucson, Arizona
- ☆ **Blythe 21 MW (PV)**  
Blythe, California
- ★ **California Valley Solar Ranch 250 MW (PV)**  
San Luis Obispo County, California
- ★ **Gaskell 105 MW (PV)**  
Kern County, California
- ★ **Ivanpah 392 MW (CSP)**  
Mojave Desert, California
- ☆ **Roadrunner 20 MW (PV)**  
Santa Teresa, New Mexico

## BLYTHE SOLAR PROJECT

In December 2009, NRG Solar started commercial operation at the Blythe Solar Project, a 21 megawatt solar project located in Riverside County in southeastern California. The Blythe Solar Project is the first large-scale solar photovoltaic project built in California since 1990. Electricity generated by the facility is sold to Southern California Edison (SCE) under a 20-year power purchase agreement.

This project demonstrates leadership for California in the solar market, providing the lowest-cost solar energy available and helping the State meet its Renewable Portfolio Standard. Power generated by the Blythe Solar Project can provide enough energy to serve the needs of about 17,000 homes at peak capacity and will displace over 12,000 tons of carbon dioxide emissions per year from fossil fuel generation—the equivalent of taking 2,200 cars off the road.



## FUTURE PROJECTS

The Blythe facility represents the vanguard of NRG Solar's strategy to develop, construct, finance and operate a multi-technology portfolio of solar power assets in North America. In 2010, NRG announced its involvement in several major solar projects as an owner, partner or investor:

- Took a lead investment role in BrightSource Energy's 392 megawatt (MW) solar thermal project at Ivanpah in the California Mojave Desert
- Acquired the 290 MW Agua Caliente photovoltaic project in Yuma County, Arizona

- Announced a partnership with SunPower to construct the 250 MW photovoltaic California Valley Solar Ranch project in San Luis Obispo County
- Agreed to co-develop a 45 MW solar photovoltaic Avenal project in Kings County, California with Eurus Energy
- Began construction in December 2010 on the 20 MW solar photovoltaic Roadrunner project in Santa Teresa, New Mexico

Altogether, NRG Solar has more than 2,000 MW of solar projects under development or in construction across the southwest U.S.

## TECHNOLOGIES

### PHOTOVOLTAIC

Photovoltaic (or PV) Solar uses thin-film or crystalline photovoltaic solar panels to convert sunlight directly into electricity without the need for process water or steam turbines. Advanced thin-film PV modules developed by First Solar produces energy even in low light conditions (dawn, dusk, cloudy days) and in high temperatures.

### CONCENTRATED SOLAR POWER

NRG is also developing concentrated solar power (CSP) or solar thermal power plants, which will provide local utilities with competitively priced, sustainable solar power. A solar thermal plant uses an array of mirrors, or heliostats, that concentrate sunlight to boil water and create steam that turns a turbine. The spinning turbine generates electricity like a traditional power plant, but without producing any emissions or using any fuel.

### DISTRIBUTED SOLAR

In addition to large commercial-scale projects, NRG has also started developing distributed solar arrays or "solar pavilions" for select school districts in Arizona. These solar pavilions and their panels are being developed as carports adjacent to school buildings. Future installations could also supply shade for playgrounds, sidewalks or whatever best fits the needs of the individual school.



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NRG Solar is part of NRG Energy, Inc., a Fortune 500 and S&P 500 Index company, which owns and operates one of the country's largest and most diverse power generation portfolios. Headquartered in Princeton, NJ, the Company's power plants provide more than 25,000 megawatts of generation capacity—enough to supply approximately 20 million homes. NRG's retail businesses, Reliant Energy and Green Mountain Energy Company, combined serve more than 1.8 million residential, business, commercial and industrial customers. [www.nrgenergy.com](http://www.nrgenergy.com)