

Garland Solar Facility

Location

Kern County, California

Capacity

205 MW

Fuel Resource

Photovoltaic Solar

OwnershipSouthern Power
Recurrent Energy

Southern Power and Recurrent Energy, a subsidiary of Canadian Solar Inc., own the 205-megawatt Garland Solar Facility in California. Construction began in December 2015, with Signal Energy Constructors managing the engineering, procurement and construction of the facility. The project entered commercial operation in the fourth quarter of 2016.

The electricity and associated renewable energy credits (RECs) generated by the facility are sold under two long-term power purchase agreements (PPA) with Southern California Edison (SCE), which has the option to keep or sell the RECs.

Size

The project is built on two sites totaling 2,000 acres in Kern County, California

Technology

The facility consists of more than 800,000 polycrystalline photovoltaic solar modules, mounted on single-axis tracking tables.

PV modules generate electricity directly from sunlight through an electronic process that occurs naturally in certain types of material known as semiconductors. Solar energy frees electrons in these materials to travel through an electrical circuit, powering devices or sending electricity to the grid. Tracking systems produce more energy because they track the sun's movement throughout the day.

Southern Power, a subsidiary of Southern Company, is a leading U.S. wholesale energy provider meeting the electricity needs of municipalities, electric cooperatives, investor-owned utilities and other energy customers. Southern Power and its subsidiaries own or have the right to own 47 facilities operating or under construction in 11 states with more than 12,700 MW of generating capacity in Alabama, California, Florida, Georgia, Maine, Minnesota, Nevada, New Mexico, North Carolina, Oklahoma and Texas.

Atlanta-based Southern Company is America's premier energy company, serving 9 million customers through its subsidiaries with clean, safe, reliable and affordable energy. With electric utilities in four states, natural gas distribution utilities in seven states, a competitive generation company serving wholesale customers across the country and a nationally recognized provider of customized energy solutions, as well as fiber optics and wireless communications, Southern Company and its subsidiaries are inventing America's energy future.

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