



Project Highlight

San Joaquin County, CA



San Joaquin County
Generates 10,473,000 kWh
from Solar Power

Technology Type:

Distributed Energy Generation | Landfill Gas
to Energy | Power Purchase Agreement |
Renewable Energy | Solar Photovoltaic

PV Capacity

5.3 MW-DC

LFGTE Plant

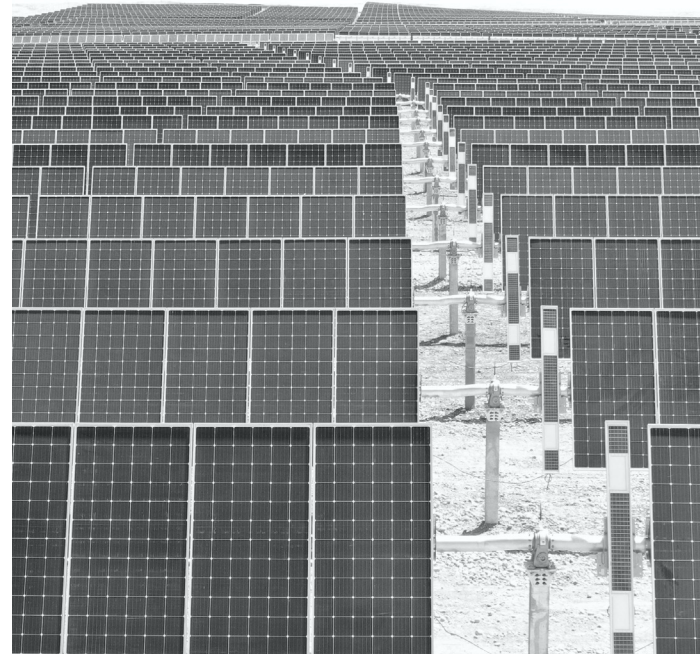
4.3 MW

Annual Solar Electricity Generation

10.47M kWh

Solar Panels Installed

13,770



Summary

Continuing our long-standing relationship, San Joaquin County recently partnered with Ameresco to complete installation of a 5.3-megawatt ground mount solar energy system at the County's Foothill Landfill. Under a separate agreement Ameresco previously constructed a 4.3 MW landfill gas to energy plant (LFGTE) at the same landfill.



Solution

San Joaquin County partnered with Ameresco to develop, own, and operate a ground-mount solar photovoltaic system at the Foothill Landfill in Linden, California. Funded by a power purchase agreement (PPA), Ameresco installed 13,770 solar modules rated at 385W-DC each, as well as 29 solar inverters rated at 125kW-AC each. Separately, municipal solid waste at Foothill Landfill naturally decomposes generating landfill gas, which is then captured and converted into a renewable source of power. Ameresco's LFGTE facilities safely utilizes landfill gas collected from extraction wells, the gas is cleaned before specialized engines convert it to electricity for sale to the electricity marketplace.

- Ameresco developed, owns, and operates the facilities
- Solar PV energy system
- Landfill gas to energy plant



San Joaquin County, and its local communities, have long prioritized the development of renewable energy resources, both for reducing emissions and supplementing existing electricity generation. In addition to its environmental impact, the solar energy system will provide further utility cost savings to our region, which will directly benefit residents and local governments' ability to better serve its constituents.

Kathy Miller
Chair of the San Joaquin
County Board of Supervisors



Benefits

The solar energy system will generate approximately 10,473,000 kWh of electricity in year one. This equates to a reduction of 7,405 tons of CO₂ emissions or 854 homes' energy use for one year. In addition to the significant electrical savings, the County will also receive a \$500,000 upfront lease payment for the use of the land, infusing revenue into the County from day one.

- Utility cost savings
- Reduced carbon emissions
- Supplementing existing electricity generation
- Green reuse of undeveloped land

Ameresco's team of energy experts can assist you in identifying the solution that fits your needs.

For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please call **1-866-AMERESCO** or visit **ameresco.com**.

