

Case Study: Quiet Energy Utility-Scale PV Boron, California



Innovative Energy Solutions

TerraSolar installed this 100kW utility-scale photovoltaic system in late 2001. The project, located in the Mojave Desert of California, and installed for Quiet Energy, LLC, serves as a model in the field of utility-scale photovoltaic design and construction.

The system was partially financed through the California Energy Commission's state buy-down program and is intended to serve as the beginning stages of a larger photovoltaic power plant, providing valuable peak power to California's utility grid. It includes over 2,500 40W amorphous silicon modules installed atop 10 arrays generate 10 kW each. The system includes five 20 kW inverters which convert DC electricity generated by the photovoltaics into utility-grade AC electricity.

TerraSolar was chosen to supply and install the system not only as a result of the economics it could provide, but also because amorphous silicon modules provide superior performance in the extreme heat of the desert environment.

Location: Quiet Energy
Boron, California

Construction: Utility-Scale PV

Completion: December, 2002

Subcontractors: Quillin and Grant

Peak Capacity: 100kW

Economic Incentives: California Energy
Commission:
Clean Energy
Rebate
Program

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