



Energy
Services

Solar Photovoltaic Power System

Cambria Community Water District



LOCATION:

Cambria, California

PROJECTS & SERVICES:

- Managerial & Technical Consulting
- Engineering (Mechanical, Electrical, I&C)
- Planning/Project Management
- Quality Assurance/Quality Control
- Operations & Maintenance Evaluation
- Design

PROJECT OVERVIEW:

Source California Energy Services, Inc. (SCES) performed design and cost estimates for a Solar Photovoltaic Power System for the proposed seawater desalination system for the city of Cambria. Evaluation of various renewable and non-renewable energy supply alternatives was performed for this site as well as an electric rates analysis for the facility as part of the implementation analysis for the photovoltaics alternative.

Technologies considered included Solar Photovoltaics, Solar Thermal, Fuel Cells, Microturbines, and Internal Combustion Engines. Each alternative had specific issues to incorporate into the design for maintaining reliability and to minimize utility backup power. The strategies developed included life cycle cost analysis incorporating any federal and local rebate programs as well as any special finance structures for renewable energies.

Hybrid technologies were also considered where appropriate resulting in a comprehensive package which not only accounted for local utility promotions but also optimized the energy usage strategy for the facility.

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