Featured Project

Chico Transit Center Photovoltaic System

Chico, California

Electrical
Lighting
Power Distribution
Construction Services

ArcSine Engineering designed and performed Services During Construction for a 10kW photovoltaic system for the City of Chico's bus transit ticketing center and two satellite bus stations, located at 2nd and Salem Streets in downtown Chico.

Unique to the project was the architectural design which called for the photovoltaic panels to provide the roof system for all three structures. The panels were custom fabricated with individual photovoltaic cells, laminated within 42" x 42" transparent glass panels.

ArcSine Engineering also coordinated with PG&E for bidirectional net-metering.

This high-profile demonstration project for the City of Chico was intended to raise awareness of alternative energy solutions. While the project was of modest electrical capacity, it incorporated challenging issues usually found on much larger projects, including the following:

Site Constraints
- Crowded utility corridors
- Easements/permitting
- Construction constraints

Architectural
- Unique application of custom photovoltaic panels
- Blending functional and aesthetic considerations

Electrical
- Extensive grounding considerations
- Detailed design of all PV provisions including dc systems and ac systems
- Utility coordination for relocation of existing utilities
- Lighting

Project Stakeholders
- Successfully met the requirements of a diverse group of stakeholders