

Featured Project

Turtle Bay Exploration Park Photovoltaic System

Redding, CA

Design Completion Date

2007

Construction Completion Date

2007

ArcSine Engineering was sole-sourced to provide electrical engineering documents for a 3-kilowatt photovoltaic system.

This system is located at the entrance to the Paul Bunyan Forest Camp, part of the City's 300-acre Turtle Bay Exploration Park Campus, which also includes three science museums, the McConnell Foundation's Arboretum and Botanical Gardens, as well as the iconic Sundial Bridge. ArcSine provided electrical consultation services for many of these projects as well.

This photovoltaic system was intended as a demonstration model showcasing renewable energy usage, along with serving as a functional power source for this facility.

ArcSine's work included:

Electrical Design:

- Coordination with City-owned Redding Electric Utility (REU).
- Design of a net-energy metering system.
- Integration into an existing electrical service entrance.
- Site interconnecting conduit and wire.
- Coordination with photovoltaic panel supplier.
- Response/coordination with local Building Department.

Construction Engineering Services:

- Response to Contractor's questions.
- Review Contractor's submittals and test documentation.
- Review operation and maintenance (O&M) manuals.
- Observe construction.



Electrical Power Distribution Construction Services

