

## Featured Project

### McConnell Foundation Campus

Redding, CA

This project consisted of a 25-acre commercial campus, plus a 10,000-square-foot anchor building adjacent to the Redding Turtle Bay Arboretum and Museum complex, including the spectacular Sundial Bridge. For the site and the initial building, ArcSine Engineering designed electrical and lighting and included provisions for telephone, cable TV, networking, security, video, fire protection, and solar photovoltaic. Site power distribution was at 12kV. Site lighting included approximately 150 fixtures skillfully integrated with the landscape and structures.

This campus sets the standard for environmentally friendly design.

Provisions were included for site-wide photovoltaic collection, and ArcSine developed load and economic analyses to be used as a roadmap for the Owner to phase in the system.

ArcSine provided a sustainable design, this project included the following:

- Photovoltaic system with net metering for utility sell-back. The system is set up to be phased in as loads increase.
- Use of sustainable materials in site and building construction.
- Energy-efficient lighting, with optimized controls.
- Energy-efficient HVAC.
- Flexible systems within the building, to accommodate various uses and tenant changes with minimal waste. Electrical and lighting systems include accessible raceway "hubs" which are independent of interior walls, minimizing the impact of later use charges.

Design Completion Date

2004

Construction Completion Date

2006

**Electrical**  
**Mechanical**  
**Lighting**  
**Power Distribution**  
**Alternative Energy**

