

Tahoe Center For Environmental Sciences



Roofing Tile



OVERVIEW

In a historic partnership, the University of California, Davis, and Sierra Nevada College have built an urgently needed Tahoe environmental research and education facility on the Sierra Nevada College campus in Incline Village, NV. The Desert Research Institute and the RAND Corp. are collaborators in the \$24 million project, to be called the Tahoe Center for Environmental Sciences.

The project is an unusual combination of public and private institutions in two states and is supported by federal, state, private, and foundation funding. Under development for a decade, the new facility will be an international leader for science and teaching on the preservation of alpine lakes and their watersheds.

Applied Solar is providing the design and constructing all materials for a 31.5 kilowatt Photovoltaic roofing system with Applied Solar Roofing Tiles. In addition, Applied Solar is providing 9 inverters rated at 3500 watts DC each. The system was chosen because of the high power density provided and the fact that the tiles can withstand up to 280 lbs. per square foot for the potential extreme snow loads.

Project Info

To introduce an element of multi-functionality to building integrated Photovoltaic, creating systems, which produce energy while meeting required needs and desirable features of urban science center.

Full Address

291 Country Club Drive, Building #4, Incline Village, NV 89451

Project Start Date February, 2006

Project End Date July, 2006

Challenge

Provide 10% of the building load within 3000 sq. ft. in a heavy snow environment

Solution

Installing 900 Applied Solar Roofing Tiles

System Size

31.5 kw DC

Estimated Monthly Production

4,400 kwh

Products Used

Applied Solar Roofing Tiles, Applied Solar 3500 watt inverter with combiner boxes (CB10)

Installation Weight

4 lbs. per sq. ft.

Installation Size

3000 sq. ft.

Roof Type

Tile over counter batten

