Tahoe Center for Environmental Sciences Incline Village, NV

Project Information

owner: Sierra Nevada College, U.C. Davis

3 Stories, 60,000sf size:

\$24,000,000 cost:

dates: May 2005 - Nov. 2006

Project Team

Lundahl & Associates architect:

Integrated Design Associates electrical:

mechanical: Rumsey Engineers

David Nelson and Associates liahtina:

Martin & Peltyn structural:



interior: Central atrium that filters light to other spaces

is a major design focus of the building.

Fiber-cement siding panels made of recycled materials exterior:

and molded to look like cedar wood adorn the exterior.

Lighting

daylight: Light shelves and the central atrium help push light

into the building. Daylight controls are found within the buildings to eliminate electric light when enough

daylight is present.

electric: 120V fluorescent lighting can be found throughout

the building, with indirect pendant fixtures, downlights,

and track fixtures providing much of the lighting.

Main incoming service is a 3Φ, 4W feeder serving a service:

1600A, 208Y/120V switchboard.

(9) Photovoltaic arrays with a total of (87) tile elements pvs:

are located on the roof and are tied to a 100A panel.

A 30kW Capstone microturbine supplies 480V and is cogen:

connected via a 480Y-208/120 transformer.

emergency: Emergency power is supplied via a 50kW back-up

generator due to slow start times on the cogen unit.

Special Considerations

Mechanical

radiant: Radiant panels provide heating and

cooling to numerous rooms instead of

traditional HVAC systems

hot water: Solar panels on the roof provide hot

water to the building systems.

greywater: A greywater collection system collects

rain and snow melt to distribute to

various building systems.

ventilation: Chilled beams of air provide induction

ventilation to lab spaces.

Structural

One-way cast-in-place concrete slabs concrete: that are deeper than normal due to

radiant piping in some areas.





TCES is currently slated to be LEED Platinum leed:

certified and is 8 points over Platinum currently.

