San Luis Sustainability Group

Institutional and Commercial

Sustainability has become an integral part of institutional and commercial projects. SLOSG has been in the forefront of determining what this means. We designed the first net zero energy commercial scale building in California as well as the first LEED certified building on California's Central Coast.

Congregation Beth David
Aerial View
Image: Google Earth

Interior of the passively conditioned sanctuary.

Interior of the social hall looking toward the courtyard.

A commercial scale building with sustainable features should be more comfortable, healthier, aesthetically pleasing and, contrary to common belief, more economical to build and operate as is the case shown below.

Energy cost of comparable assembly building that meets California Energy code.

$37,541

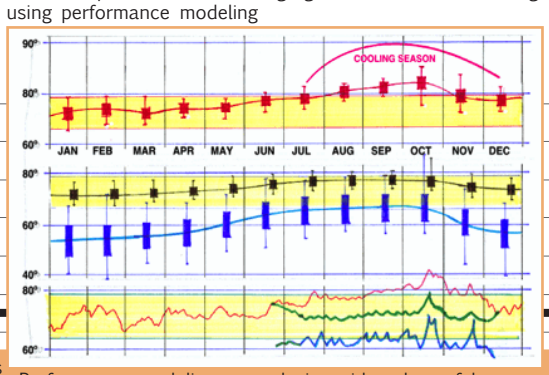
Predicted energy cost of Congregation Beth David using energy compliance software.

$31,038

17.3% savings

California's formula driven energy modeling software does not accurately predict the capability of an optimized passive solar design as shown here.

Predicted performance of Congregation Beth David building using performance modeling



Performance modeling as a design aid and careful construction of passive systems allow a more accurate prediction.

Actual performance of Congregation Beth David building.

"The entire building performed beautifully for the high holy days (held during the height of the cooling season). We received many compliments about both the aesthetics and functioning from the over 600 people who attended the two services."
-Mike Blum, Chairman of the design & construction committee

$6,812
82.3% savings!

Construction costs: $233 per sq. ft. in 2007

Commissioning the completed building to insure the user operates the building to its capability enables the **82% savings** shown here.

Congregation Beth David

San Luis Obispo, CA

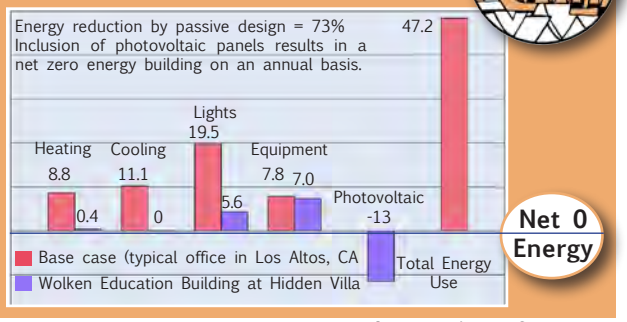
The first certified LEED Building on the Central Coast *and* the First LEED Certified Synagogue in the United States

Other Commercial Scale Projects

Wolken Education Building
Hidden Villa Foundation
Los Altos Hills, CA

"This is probably the most sustainable commercial building in California. It is energy independent, non-toxic, and built with a high degree of sustainable materials."

-Quote from a guide to green buildings in the bay area published by the San Francisco Institute of Architecture in 2006.



San Luis Obispo Botanical Garden Education Center

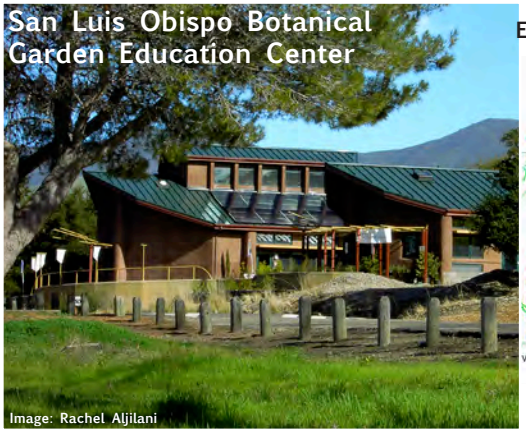
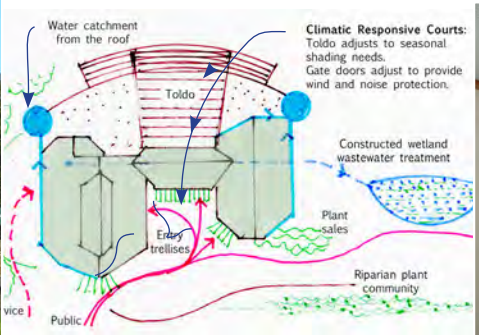


Image: Rachel Aljilani

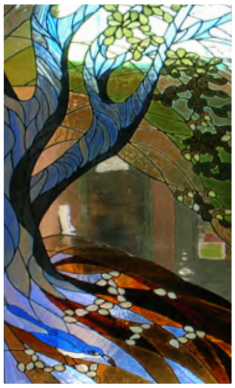
Education Center Plan



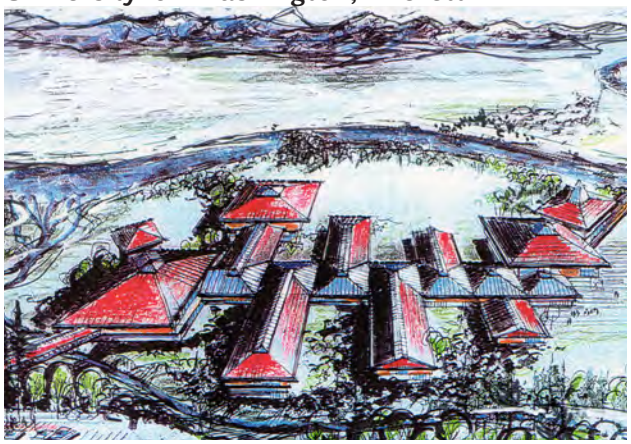
The building fosters habitat & encourages water consciousness

Meeting Hall

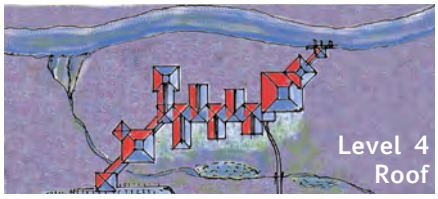
Integration of Interpretive Art



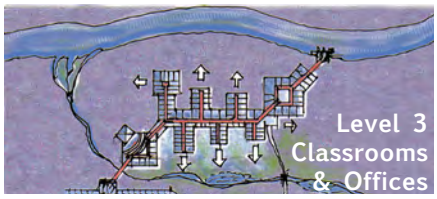
University of Washington, Everett



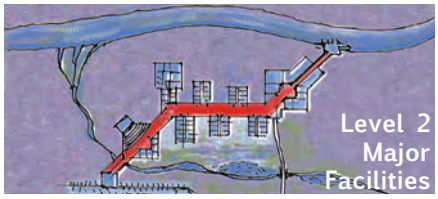
Everett Washington is the largest U.S. city without a four year University. This study that was conducted for the city illustrates what it has to offer the state for a university annex. A spectacular riverfront site on the location of a burned out saw mill, easy access, and opportunities for riparian restoration.



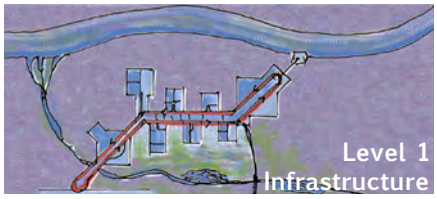
All facilities have access to natural lighting via roof monitors and transparent insulation roofing tuned to the unique climate of the area.



Rooms have access to views of the river or marsh areas and individual buildings have expansion capability.



Facilities are structured along a covered academic street with river facing quads and marsh facing quads.



Service circulation, receiving and delivery, shops and maintenance facilities, laboratory and services for individual buildings occur here.

Image: Bethany Bandera