



BREN SCHOOL OF ENVIRONMENTAL SCIENCE & MANAGEMENT

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

64% energy use reduction

37% water use reduction

60,000 kWh generated annually by rooftop photovoltaic panels

LEED® Facts

Bren School of Environmental Science & Management

UC Santa Barbara

LEED for Existing Buildings v2.0
Certification awarded August 8, 2009

Platinum 64*

Sustainable Sites 9/14

Water Efficiency 5/5

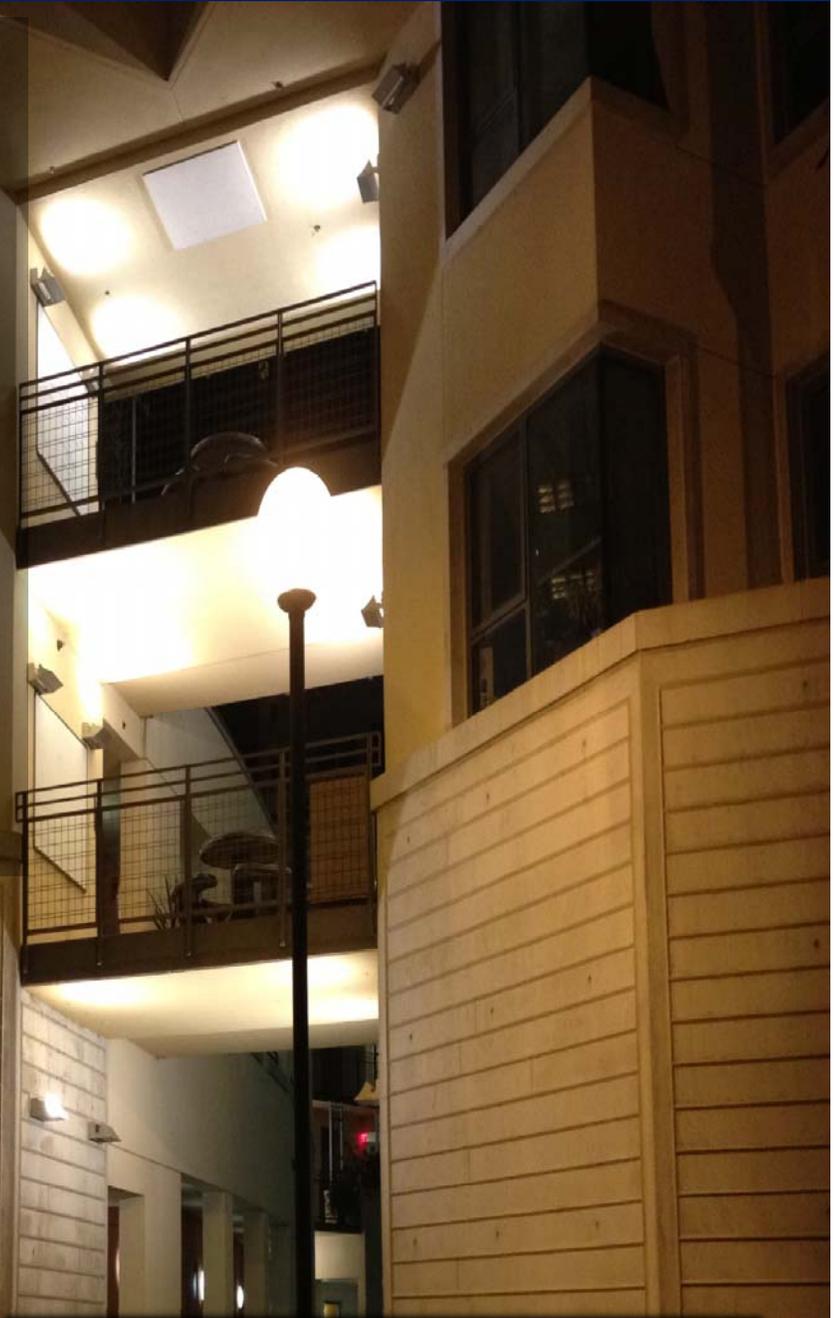
Energy & Atmosphere 20/23

Materials & Resources 14/16

Indoor Environmental Quality 12/22

Innovation in Operations 2/2

*Out of possible 85 points



Bren School of Environmental Science & Management

Greenest Laboratory Building in the United States

Bren Hall: A physical manifestation of the School's mission

PROJECT BACKGROUND

When it opened in April 2002, Bren Hall was the first laboratory building in the United States to receive the U.S. Green Building Council's LEED® Platinum certification for low environmental impact design and construction. In 2009, Bren Hall became the first and only facility to receive a second LEED® Platinum rating for sustainable Maintenance and Operations.

DESIGN TO BLEND INTO SURROUNDINGS

The project team designed Bren Hall to allow students, faculty and visitors feel as if they are still part of the coastal ecosystem when in the building. Native coastal grasses surround the building and do not require irrigation. Natural daylighting and views of the Pacific Ocean in perimeter offices provide a healthy environment to work and study.

MINIMIZATION OF OPERATIONAL IMPACTS

Bren Hall operates with an annual energy use intensity of 215 kBtu per square foot, as compared with an average laboratory building of similar research function at 595 kBtu per square foot. A 47 kW photovoltaic solar further reduces CO₂ emissions by 39,000 lbs per year.

Potable water use is minimized through ultra high-efficiency water fixtures, in addition to the utilization of municipally supplied recycled water for certain flush fixtures. Native and drought tolerant species used in the building's landscaping further reduce demand for recycled water, maintenance and nutrient application.

The building's occupants have achieved an 80 percent waste diversion rate through waste stream separation and composting. Sustainable purchases, including local, recycled and rapidly-renewable products account for nearly 90 percent of the Bren School's ongoing purchases.

ABOUT THE BREN SCHOOL

Since opening in 1991, the mission of the Bren School is to play a leading role in researching environmental issues, identifying and solving environmental problems, and training research scientists and environmental professionals.

"Bringing sustainability through each building's lifecycle – from design and construction to operations and maintenance – has been an area of increasing focus for UC Santa Barbara. With fewer new facilities planned for construction in the short-to-mid term, greater emphasis has been placed on upgrading existing facilities as a means to lower the campus' environmental impact."

Jordan Sager
LEED/Sustainability Manager
UCSB Design & Facilities



Architect: Zimmer GunsulFrasca
Engineers: Flack & Kurtz
Contractors: Soltek Pacific
Landscape: Wallace Roberts Todd
Sustainability Manager: Perrin Pellegrin

Project Size: 84,672 sqft
Total Project Cost: \$26 million
Cost per square foot: \$307

ABOUT LEED

The LEED® Green Building Rating System™ is the national benchmark for the design, construction, and operations of high-performance green buildings. Visit the U.S. Green Building Council's web site at www.usgbc.org to learn more about LEED and green building.

www.usgbc.org
202-828-7422

