Green Building Case Study

Recreation Center

Building Highlights:

LEED Certification Type: EB (Existing Building)

LEED Certification Level: Silver

Size: 119,133 gross square feet

Cost: $13,500 material costs & approx. 1,108 staff hours dedicated to project

LEED-EB Start Date: March 2006

LEED-EB Completion Date: July 2007

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All LEED EB Documentation was done in-house by UCSB Sustainability Staff.

www.sustainability.ucsb.ed

Why this Building?

Why go through all the hard work to certify the UCSB Recreation Center with the USGBC and attain the LEED-EB award? According to Gary Jurich, Assistant Director of Recreation, "it's the course we all need to take to conserve our resources, to optimize our energy usage, to reduce waste, to redirect efforts to a different approach and way of life. Our efforts in reducing water, electricity and natural gas usage are seamless to our patrons, but are substantial in volume. Our recycling efforts are only visible through the many bins now located throughout the facility, but our waste audits show that 75% of materials that used to be thrown away are now recycled." These steps toward sustainability came easily and UCSB is looking forward to continuing down this path!

Green Achievements:

- Energy efficient fixtures, dedicated lighting, daylighting and building commissioning reduced energy use by over 58,000 kWh in 2006, saving $6,000 and keeping 46,500 lbs of CO_2 from the atmosphere – equivalent to planting over 500 trees
- Waste audit revealed 64% diversion of recyclable materials
- Installed watermisers on existing faucets and uppercuts on existing toilets to save 500,000 gallons and $10,000 /yr
- 80% Green Seal cert. cleaning reagents
- Walk-off mats at all entry ways improve indoor air quality by removing 85% of dust tracked in from outside
- Sustainable purchase record of 52% in Spring 2007
- Future installation of 133 kW solar photovoltaic system will generate ~170 watts per year, reducing electricity consumption by 23-30% and keeping over 200,000 lbs of CO_2 out of the atmosphere – equivalent to parking 20 cars for a year
- Future solar pool heating and efficient pool cover will reduce energy demand by 80%, or 200,000 therms of natural gas and $200,000 per year