San Bernardino Community District

SUSTAINABILITY PLAN APRIL 15, 2011

Sustainability Plan

Meeting #3 (4/15/11)

- Green Building, Energy and Water Meeting #4 (4/29/11)
- Climate
- Academic Instruction/Training

GREEN BUILDING

What is a Green Building?

Green Building



A building which:

- Is environmentally responsible and resource-efficient during its life-cycle
- Efficiently uses energy and water
- Protects occupant health and improve employee productivity
- Reduces waste and pollution.

Goals

 Create superior spaces to work and study that effectively support occupants' health, productivity, and well-being, and are environmentally responsible.

Key Strategies

LEED Certification (new and major renovations) Sustainability Design Elements (Eco

Charette)

"Buildings That Teach"

- Exposure of building's sustainability features
- Communication of sustainability features (displays, websites, dashboards)

Leadership in Energy and Environmental Design

 Voluntary, national rating system for developing sustainable buildings.

LEED

- Emphasizes strategies for sustainable site development, resource selection, energy efficiency, water savings, and indoor environmental quality.
- Ratings: Certified, Silver, Gold, Platinum
- SBCCD: Silver rating or higher.

Sustainable Site Planning

- Placement of building and design of building envelope for optimal energy performance
- Conservation of water resources
- Use of landscaping which has low water and maintenance requirements, helps shade buildings, and is attractive
- Consultation with Biology dept. on future landscaping
- Consideration of environmental and climatic conditions (solar orientation, sun shading)



Materials and Resources

- Selection of materials with low life-cycle costs
- Utilization of recycled, reused, repurposed, and rapidly renewable materials
- Development of construction waste management plan (reuse, recycle)



- Maximization of energy efficient design (HVAC, lighting, glazing, window shading, cool roof)
- Energy efficient equipment and appliances
- Commissioning of new buildings
- Monitoring of energy use for individual buildings (building dashboards)
- Use of similar mechanical and electrical equipment to minimize need to store multiple parts



Indoor Environmental Quality

- Provision/maintenance of healthy/indoor air (HVAC)
- Ensure good visual quality (daylighting)
- Limitation of VOC emitting materials
- Provision of proper acoustical conditions



Water Resources

- Minimization of indoor water use (highefficiency plumbing fixtures)
- Utilization of water efficient landscaping
- Utilization of wastewater technologies (metering/monitoring, captured rainwater, gray water)
- Management of stormwater (decrease runoff, capture/reuse)

OTHER STRATEGIES



Building

Design of interior spaces (flexible, change of use)

Water

Monitoring of water uses (submetering buildings, audits)

Materials/Resources

Collection of recycled materials



- Measures for energy efficiency
- Education of campus communities to be "power wise" and conserve energy
- Potential for scheduling of classes in limited number of buildings during summer session
- Implementation of monitoring-based commissioning of existing buildings
- Provision of central plants/thermal energy storage
- Provision of renewable energy

Schedule

Spring 2011

- Vision of Sustainability Plan
- Goals
- Strategies
- Summer 2011
- Development of Sustainability Plan
 Fall 2011
- Draft Sustainability Plan

NEXT MEETING: APRIL 29, 2011, 3 P.M.