

Valley Performing Arts Sustainability

Sustainability Elements

1. CSUN Storm water Best Management Practices were used on this project, including porous pavement, sub surface storm water retention and catch basin stenciling.
2. Energy Saving Design Lighting Design
 - a. Energy saving fluorescent lights will be used in the rooms and common spaces.
 - b. Energy saving lighting controls are being used including daylight and occupancy sensors.
3. Energy Saving HVAC Design.
 - a. Project met CSU Requirement to Exceed California Energy Code Title 24 Energy Conservation Measures by 15%.
 - b. Cost Benefit Analysis of HVAC Systems to determine Best Life Cycle system.
 - c. 2 stage Energy Efficient PTAC units selected for student rooms.
 - d. Energy Saving controls for Room PTAC operation to set back temperature when room is not occupied and to shut off unit if window is opened.
 - e. Rooftop package units are SEER 15 energy conservation rated.
4. Energy Saving Building Envelope Design
 - a. Additional insulation in the roof cavity.
 - b. Cool Roof heat reflecting roofing cap sheet is being used.
 - c. Dual Glazed low E Glass is used for all windows.
 - d. Window glass is shaded from direct sunlight by building and roof overhangs and fenestration.
5. Energy Saving Elevators.
 - a. Each building has a solid state energy saving elevator which will use 1/3 the energy of conventional hydraulic elevators.
6. Water Conserving Fixtures and Landscape Irrigation
 - a. Dual Flush Toilets
 - b. Waterless Urinals
 - c. Low Flow Shower heads
 - d. Automatic Shut-off faucets
 - e. Rain sensors to limit landscape irrigation after rain event
 - f. Drought tolerant landscaping
 - g. Gray water reuse analysis was done regarding costs and benefits
7. Project Commissioning
 - a. Lighting Installations will be commissioned to assure that operations meet energy saving design specifications

- b. Mechanical Systems, including PTACs will be commissioned to assure that operations meet energy saving design specifications
- 8. Building Design is very efficient regarding space.
 - a. Dual Occupancy Rooms
 - b. Quad Occupancy Toilet/Shower
 - c. GSF/ASF Efficiency Ratio of 80%
- 9. Sustainable Building Construction Practices
 - a. Construction Waste Diversion
 - b. Identification of local building materials and materials with low energy content.
- 10. Suggested Sustainable Practices for Building Operations
 - a. Recycling bins at each "pod" and collection points at each building.
 - b. Green Cleaning Program
 - c. Signage to educate occupants regarding recycling, energy and water conservation measures.
 - d. Provide bicycle lockers to encourage alternate modes of transportation.