



The Board of Trustees is responsible for overseeing the operations and fiscal accountability of the West Hills Community College District. It embraces energy conservation and strives to ensure that every reasonable effort is made to conserve energy and natural resources while exercising sound financial management. The Board of Trustees desires for the District to become a nationwide institutional leader in energy conservation as part of its social responsibility to respect natural resources,

The Board of Trustees recognizes the importance of adopting an energy conservation policy to govern this program. They affirm that the implementation of this policy will be the joint responsibility of the Board, administration, faculty, staff, students, support personnel, and Cenergistic. Success is based on cooperation amid all groups.

To ensure the overall success of the behavior-based energy conservation program, the following areas will be emphasized:

- A designated administrator will be accountable for energy conservation at the District and colleges with Energy Specialist teams conducting energy audits and providing timely feedback.
- All employees are expected to make a positive contribution to maximize energy conservation and produce real energy savings.
- Cenergistic will implement its energy conservation program primarily through an energy management team led by an Energy Specialist in accordance with energy guidelines adopted by the administration and will define the “rules of engagement” for the energy program.
- Accurate records of energy consumption and cost will be maintained by the Energy Specialist for the District and colleges to provide verifiable performance results on the goals and progress of the energy conservation program.
- Further, to promote a safe, healthy learning environment and to complement the energy conservation program, the District and colleges shall review and adhere to the preventive maintenance and monitoring plan for its facilities and systems including HVAC, building envelope, and moisture management.

Board approval date: 5/20/14



Guidelines (Energy Conservation and Building Management)

Responsibilities:

- Every person is expected to become an “energy saver” as well as an “energy consumer.”
- The District and its colleges are committed to and responsible for a safe and healthy learning environment.
- The faculty/staff member is responsible for implementing the guidelines during the time that he/she is present in the instruction room/office.
- The custodial staff is responsible for control of common areas (i.e. hallways, dining areas, etc.)
- Security personnel are responsible for verification of the nighttime shutdown.
- The Energy Specialist provides regular (at least semi-annual) program update reports to the District administration.
- The Energy Specialist performs routine audits of all facilities and communicates the audit results to the appropriate personnel.
- The Energy Specialist is responsible for either directly or indirectly making adjustments to the organization’s Energy Management System (EMS), including temperature settings and run times for Heating, Ventilation and Air Conditioning (HVAC) and other controlled equipment.
- The Energy Specialist provides monthly energy savings reports to facilities management detailing performance results.
- The administration will regularly communicate the importance and impact of the energy conservation program to its internal and external constituents.
- To complement the organization's behavioral-based energy conservation program, the District shall develop and implement a preventive maintenance and monitoring plan for its facilities and systems, including HVAC, building envelope, and moisture control.

General:

Instruction room doors shall remain closed when HVAC is operating. Ensure doors between conditioned space and non-conditioned space remain closed at all times (i.e. between hallways and gym or pool area).

Proper and thorough utilization of data loggers will be initiated and maintained to monitor relative humidity, temperature, and light levels throughout District and college buildings to ensure compliance with guidelines.

All exhaust fans should be turned off daily.

All office machines (copy machines, laminating equipment, etc.) shall be switched off each night and during unoccupied times. Fax machines and networked printers may remain on.

All computers should be turned off each night. This includes the monitor, local printer, and speakers. Network (i.e. LAN) equipment is excluded.

All capable PC's should be programmed for the "energy saver" mode using the power management feature. If network constraints restrict this for the PC, ensure the monitor "sleeps" after 10-minutes of inactivity.

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| Cooling Season Occupied Set Points ¹ : | 74°F - 78°F |
| Cooling Season Unoccupied Set Point: | 85°F |
| Heating Season Occupied Set Points ¹ : | 68°F - 70°F |
| Heating Season Unoccupied Set Point: | 55°F |

¹ Set points are in accordance with ASHRAE 55 "Thermal Conditions for Human Occupancy"

Air Conditioning Equipment

Occupied temperature settings shall NOT be set below 74°F.

During unoccupied times, the air conditioning equipment shall be off. The unoccupied period begins when students/employees leave the area.

Air conditioning start times may be adjusted (depending on weather) to ensure instruction room/office comfort when instruction begins.

Ensure outside air dampers are closed during unoccupied times.

Ceiling fans should be operated in all areas that have them.

Relative humidity levels shall not exceed 60% for any 24 hour period.

Where cross-ventilation is available during periods of mild weather, shut down HVAC equipment and adjust the temperature with windows and doors. Cross-ventilation is defined as having windows and/or doors to the outside on each side of a room.

Heating Equipment

Occupied temperature settings shall NOT be above 72°F.

The unoccupied temperature setting shall be 55°F (i.e. setback). This may be adjusted to a 60°F setting during extreme weather.

The unoccupied time shall begin when the students/employees leave an area.

During the spring and fall when there is no threat of freezing, all steam and forced air heating systems should be switched off during unoccupied times. Hot water heating systems should be switched off using the appropriate loop pumps.

Ensure all domestic hot water systems are set no higher than 120°F or 140°F for cafeteria service (with dishwasher booster).

Ensure all domestic hot water re-circulating pumps are switched off during unoccupied times.

For heat pumps, ensure a 6°F dead-band between heating and cooling modes.

Lighting

All unnecessary lighting in unoccupied areas will be turned off. Employees should make certain that lights are turned off when leaving the instruction room or office when empty.

Utilize natural lighting where appropriate.

All outside lighting shall be off during daylight hours.

Gymnasium lights should not be left on unless the gymnasium is being utilized.

All lights will be turned off when students and employees leave for the day. Custodial staff will turn on lights only in the areas in which they are working.

Refrain from turning lights on unless definitely needed. Remember that lights not only consume electricity, but also give off heat that places an additional load on the air conditioning equipment and thereby increases the use of electricity necessary to cool the room.

Water

Ensure all plumbing and/or intrusion (i.e. roof) leaks are reported and repaired immediately.

Grounds watering should only be done between 4am – 10am. Do not water during the heat of the day, typically between 10am – 8pm.

When spray irrigating, ensure the water does not directly hit the facility.

Consider installing water sub-meters on irrigation and cooling tower supply lines to eliminate sewer charges.