Energy Conservation
Energy Performance Contracting

Phase III
Accomplished 2010-11

Project #1
Project Title: Parking Lot and Garage Lighting
Project Description: This project involves the replacement all campus parking lot and parking garage high pressure sodium fixtures with induction lighting fixtures. This specifically involves:
1) Replace (82) – 400 watt high pressure sodium fixtures with 200 watt induction fixtures.
2) Replace (4) -250 watt high pressure sodium fixtures with 150 watt induction fixtures.
3) Replace (14) – 150 watt high pressure sodium fixtures with 100 watt induction fixtures.
4) Replace (155) – 100 and 175 watt metal halide fixtures in the garage with 2-lamp F32-T8.
Funding Method: Performance Contracting Agency
Note: This phase of work was approved at the June, 2010 State Building Commission. Work was accomplished in 2010-11.

Project #2
Project Title: Walkway Acorn Lighting Upgrades
Project Description: This project involves the replacement of all walkway pole mounted sodium vapor light fixtures with induction lighting. This entails the replacement of 283 100 watt high pressure sodium fixtures with a 65 watt induction retrofit kit.
Funding Method: Performance Contracting Agency
Note: This phase of work was approved at the June, 2010 State Building Commission and was be performed in the Fall of 2010.

Project #3
Project Title: Wall-Pack and Flood Lighting Upgrades
Project Description: This project involves the replacement of all campus wall pack and flood lights located on the exterior of buildings. This specifically involves:
1) Replace (9)-32 watt CFL wall pack fixtures with 40 watt induction lighting.
2) Replace (68) – 70 watt wall pack fixtures 40 watt induction fixtures.
3) Replace (152) – 100 watt wall-pack fixtures with 40 watt induction fixtures.
4) Replace (13) – 175 watt wall-pack fixtures with 70 watt induction fixtures.
5) Replace (2) – 175 watt flood fixtures with 100 watt induction fixtures.
6) Replace (46) – 400 watt flood light fixtures with 150 watt induction fixtures.
Funding Method: Performance Contracting Agency
Note: This phase of work was approved at the June, 2010 State Building Commission and was performed in the Fall of 2010.

Project #4
Project Title: Exterior Canopy and Soffit Lighting Upgrades
Project Description: This project involves the replacement of all exterior canopy and soffit lighting throughout the campus with induction lighting. A total of 199 induction fixtures will be installed.
Funding Method: Performance Energy Contracting

Note: This phase of work was approved at the June, 2010 State Building Commission and was performed in the Fall of 2010.

Project #5
Project Title: Kolf Field House AHU VSD Retrofit
Project Description: The field house is heated by ten (10) air handling units (AHU's) that are ceiling hung throughout the gymnasium. These items are constant volume units, meaning they provide full air flow at reduced or full occupancy. This project involves the installation of variable speed drives on each of the AHU's to reduce flow and energy during low occupancy periods.
Funding Method: Performance Energy Contracting
Note: This phase of work was approved at the June, 2010 State Building Commission. Work was accomplished in 2010-11.

Project #6
Project Title: Albee Hall AHU VSD Retrofit
Project Description: The large and small gymnasium are served by a total of five (5) air handling units (AHU's) that are constant volume units. This project involves the installation of variable speed drives on each of the AHU's to reduce flow and energy during low occupancy periods.
Funding Method: Performance Energy Contracting
Note: This phase of work was approved at the June, 2010 State Building Commission. Work was accomplished in 2010-11.

Project #7
Project Title: Piping Insulation
Project Description: There are a large number of locations throughout the campus's mechanical rooms that have missing pipe insulation. This project scope involves the replacement of all such missing insulation. The following buildings are affected: Kolf Sports Center, Scott Hall, Stewart Hall, Equity and Diversity Center, Nursing Education Building, Fine Arts, Polk Library, and Harrington Hall. A total of 717 lineal feet of 1" – 2" insulation and associated elbows and valve covers will be installed.
Funding Method: Performance Energy Contracting
Note: This phase of work was approved at the June, 2010 State Building Commission. Work was accomplished in 2010-11.

Project #8
Project Title: Blackhawk Commons Kitchen Hood Speed Control (VSD)
Project Description: The kitchen exhaust hood circulates a large amount of air to exhaust cooking odor, water vapor, heat and smoke out of the building. When there is little or no cooking going on this fan still runs at full speed. To reduce fan energy and heating energy during low kitchen useage, this project will install a variable speed drive (VSD) on the kitchen hood exhaust and makeup air fans, in combination with heat and optic sensors in the kitchen hood.
Funding Method: Performance Energy Contracting

Note: This phase of work was approved at the June, 2010 State Building Commission. Work was accomplished in 2010-11.

Project #9
Project Title: Radford Hall Lighting Occupancy Control
Project Description: This scope of work involves the installation of occupancy controls on all office light switches throughout the building. A total of 85 rooms/sensors will be installed.
Funding Method: Performance Energy Contracting
Note: This phase of work was approved at the June, 2010 State Building Commission. Work was accomplished in 2010-11.

Project #10
Project Title: Dempsey Hall Pneumatic to DDC AHU Conversion
Project Description: There is a n AHU in the basement of Dempsey Hall that serves the computer/IT server area. This unit has outdated pneumatic controls that will be replaced with updated direct digital controls (DDC) and tied to the existing Metasys building automation system (BAS) on campus.
Funding Method: Performance Energy Contracting
Note: This phase of work was approved at the June, 2010 State Building Commission. Work was accomplished in 2010-11.