New College of Florida
Energy Efficiency Measures

Energy Initiatives Already Implemented:

- New College and the FSU Ringling Museum collaborated on a project to co-locate their chiller plants in the same facility. This permits the College and Ringling to provide each other with back up chiller capacity in the event either institution experiences mechanical difficulties with a given chiller. It also permits the College to transport chilled water to its Caples Campus over existing chilled water lines serving the Ringling Museum. In addition to the benefits of chiller back up, this joint project saved over $1,000,000 in infrastructure construction over the cost of two stand alone chiller plants. The project received an honorable mention at a past State of Florida's Davis Productivity Awards presentation.
- The College has installed an automated logic control system that permits central monitoring and control of building temperature and humidity settings. This permits adjustment (setback) of building temperatures throughout the day, depending on which rooms within buildings are occupied or not. This is especially helpful during nights and weekends when building use is less. Eight buildings have been brought on line thus far.
- Raised chilled water temperature to reduce the load on central chillers and raised room temperatures across campus to 78 degrees.
- Retrofitted all interior lighting fixtures with energy efficient T-8 bulbs and electronic ballasts.
- Retrofitted exterior lighting fixtures with higher efficiency lamps.
- Replaced and reinsulated utility lines serving east campus.
- Installed a new roof on Hamilton center with R-20 average insulation and cool roof technology.
- Replaced all exterior windows and doors on our two oldest buildings (1920s construction) with new, impact resistant, high energy efficient glass and fittings.
- Added hurricane screens to various buildings with the added benefit of reducing solar gain.
- Five new residence halls were constructed substantially to LEED Silver standards. No certification.
- Replaced numerous gas powered motor vehicles with electric powered vehicles.
- All new appliances purchased are Energy Star rated.

Energy Initiatives Currently Underway or Planned:

- Mobilizing to install new roof on Cook Hall with R-20 average insulation.
- All new campus buildings will be certified to at least LEED Silver standards.

- Working with Florida Power & Light to receive energy credits and improve efficiencies.
- Expanding central chiller plant and associated chilled water lines to serve the many unconnected buildings still remaining on campus.
- Replacing an existing inefficient chiller with a new high efficiency one.
- Collaborating with FSU Ringling to investigate the possibility of utilizing well water in lieu of water provided by the City of Sarasota to supply chiller condenser water for the central utilities plant. If feasible, this is projected to save in excess of $150,000 in water costs annually.
- Rewriting Campus Construction Standards to mandate higher energy efficient materials and equipment for renovation and new construction.
- Planning mechanical renovations to various campus buildings to connect to the central chiller plant.
- Rework building envelopes to reduce energy consumption and improve storm protection.
- Upgrade electronic controls in various buildings on campus.
- Reroute power distribution at Cook Library and Chiller Plant to qualify for a lower electric rate structure.
- Install energy meters in each building to monitor all utility usage and measure cost saving initiatives.
- Engage a consultant to conduct a campus wide review to identify and quantify additional cost effective energy initiatives the College should undertake .
- Continue xeriscape projects. The College has very few grounds areas that are served by irrigation and will continue to minimize such areas.