

Energy Project: 4007

Global Learning Conference Center

Incandescent light bulbs upgraded to Compact Fluorescent Light bulbs

Project Completion Date: June, 2005



Project Overview:

The objective of this project was to perform a lighting retrofit in the Global Learning Conference Center, replacing incandescent light bulbs (interior and exterior) with compact fluorescent light (CFL) bulbs. 170 incandescent lights replaced with CFL

Pre-Project Considerations:

- Numerous other campus buildings were exchanging their incandescent lamps for CFLs. Savings are large and well documented.
- Lights in common spaces are on much more often than lights in individual rooms, increasing the efficiency of common space lights greatly reduces energy consumption
- Exterior and Interior lights are good candidates for upgrades.

The Project Process

- Southern Company was offering reduced electricity rates, if Georgia Tech reduced its energy consumption via replacement of incandescent lighting with CFL.
- The Utilities Committee asked each Area Manager to identify candidates for incandescent lamp replacements. As lights were replaced the number and wattage was reported to the Utilities Committee for tallying into the campus wide energy conservation program

Lessons Learned

- Tracking individual lamps was labor intensive.
- At minimum, upgrade lights in lobbies, staircases, and bathrooms – common areas where the lights are on all the time
- Upgrade lighting to save energy and money. Savings are ongoing with minimal upfront cost and labor, these projects have a quick payback.

For More Information:

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PROJECT SNAPSHOT

Description: Incandescent light bulbs replaced by compact fluorescent light bulbs in the GLCC (Building #170).

Area Manager: Garry Lockerman

Finances (estimated):

Cost per Light: \$50
Total Project Cost: \$8,500
Rebate \$: 0
Annual Savings: \$3,049
Payback: 2.79 years
KWH savings: 63,496/year

Environmental Impact Reduction:

86,962 lb CO₂ / yr

Lessons Learned:

1. At minimum, upgrade lights in lobbies, staircases, and bathrooms – common areas where the lights are on all the time
2. Upgrade lighting to save energy and money