Lighting Controls

Presented by:
Hugh Leahy
Director of Operations
Energy Source
LED Lighting Upgrades

Before
(3) 32W T8 Lamps
88 Watts Total

After
(1) 34W Flat Panel LED
34 Watts Total

62% Energy Savings
Lighting Controls

Stand Alone

• Occupancy Sensors
• Vacancy Sensors
• Daylight Harvesting
• Personal Control
• High End Trimming

Integrated

• Fixture Mounted
• Combined Technologies
• Remote Control Access
• Networked
## Lighting Controls

<table>
<thead>
<tr>
<th><strong>Stand Alone</strong></th>
<th><strong>Integrated</strong></th>
</tr>
</thead>
<tbody>
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</tr>
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<td></td>
</tr>
</tbody>
</table>
Occupancy Sensors

- Gradually dim lights to a low level or turn lights off when space is unoccupied.
- Turn lights on automatically when someone enters.
- Up to 30% savings.
Vacancy Sensors

• Gradually dim lights to a low level or turn lights off when space is unoccupied.
• Turn lights on manually when someone enters.
• Up to 30% savings.
Daylight Sensors

• Dim light or switch it off during the day to take advantage of available daylight.

• Up to 15% savings.
Personal Control

• Provide personal choice and control of light levels to accommodate different tasks and activities. Permit control from multiple locations
• Up to 10% savings.
High End Trimming

• Set the maximum light level in space based on customer preference or design requirements.

• Up to 20% savings.
Lighting Controls

Stand Alone
• Occupancy Sensors
• Vacancy Sensors
• Daylight Harvesting
• Personal Control
• High End Trimming

Integrated
• Fixture Mounted
• Combined Technologies
• Remote Control Access
• Networked
Integrated Lighting Controls

• Combines all the previous technologies.
• Factory installed in the fixtures.
• Field programmable.
• Up to 60% savings.
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62% Energy Savings + Controls = 85% Energy Savings
Hotel Projects

• Boston Sheraton 2012 Project
  • Interior lighting and occupancy controls
  • Lighting Savings: 780,493 kWh
  • Controls Savings: 71,326 kWh
  • 9% Increase
Hotel Projects

- Boston W Hotel
  - Garage lighting and occupancy controls
  - Lighting Savings: 61,552 kWh
  - Controls Savings: 15,221 kWh
  - 24% more savings
Hotel Projects

- Boston Sheraton Commander
  - Interior lighting and occupancy controls
  - Lighting Savings: 54,499 kWh
  - Controls Savings: 17,966 kWh
  - 33% Increase
Hotel Projects

• Boston Liberty Hotel
  • Interior stairwell lighting and occupancy controls
  • Lighting Savings: 18,921 kWh
  • Controls Savings: 20,604 kWh
  • 110% Increase
Hotel Projects

• Boston Colonnade Residences
  • Interior lighting and occupancy controls
  • Lighting Savings: 90,250 kWh
  • Controls Savings: 53,701 kWh
  • 60% Increase
How to use controls in Hotels

High Savings
- Stairwells
- Parking Garages
- Storage Rooms
- Locker Rooms
- Back of House
- Exterior Lighting

Normal Savings
- Guest room bathrooms
- Storage closets
- Mechanical rooms
- Offices
- Sun-lit Corridors
- Vestibules
Lighting Controls

- Maximize energy savings
- Increase user comfort
- Remote access and control
- Take your lighting upgrades to the next level
Thank You!

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