Energy Efficiency through Occupancy Detection
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Present Situation:

- Dormitories, classrooms and common areas have varying occupancy levels
Present Situation:

- HVAC costs can be the second highest operating cost next to payroll
Present Situation:

• Passive infrared sensors can greatly reduce energy costs
Energy Management Industry:

- Full spectrum of products for use on campuses, in hotels and commercial buildings
- Some products can expand to include lighting, drapes, inventory
- Networked systems allow centralized control
Energy Management Industry:

- All sensors/thermostat systems designed to maximize occupant comfort

- Temperature set points are determined and is automatically adjusted
How it Works:

- When room is vacated, setback process is initiated
- Setback determined by property
- System only fluctuates by a small margin so that recovery time is short
How it Works:

• "Smart" thermostats record room patterns and allow for anticipated occupancy
Networked System Allows:

- Occupancy detection
- Proactive issue response
- Real-time remote management
- Real-time control and status of any device
Networked System Allows:

- Maintenance alerts by Email or text message
- Detailed savings and graph reports
- Integration with BAS, BMS or PMS
- Option for deep setback for extended absence such as vacation
EMS Solution:

- Prevents HVAC expenditures in unoccupied rooms
- Controls humidity to reduce depreciation of FF&E
- Installed to work with existing heat/AC units
- 18-24 month ROI with 10+ year product life
EMS Solution:

- Green initiative rebates often supported by power companies
- Independent studies show 35-40% savings in HVAC expenditures
Green Lodging Energy

*Investment in green energy =
profit for today, provision for tomorrow*