



John Miller

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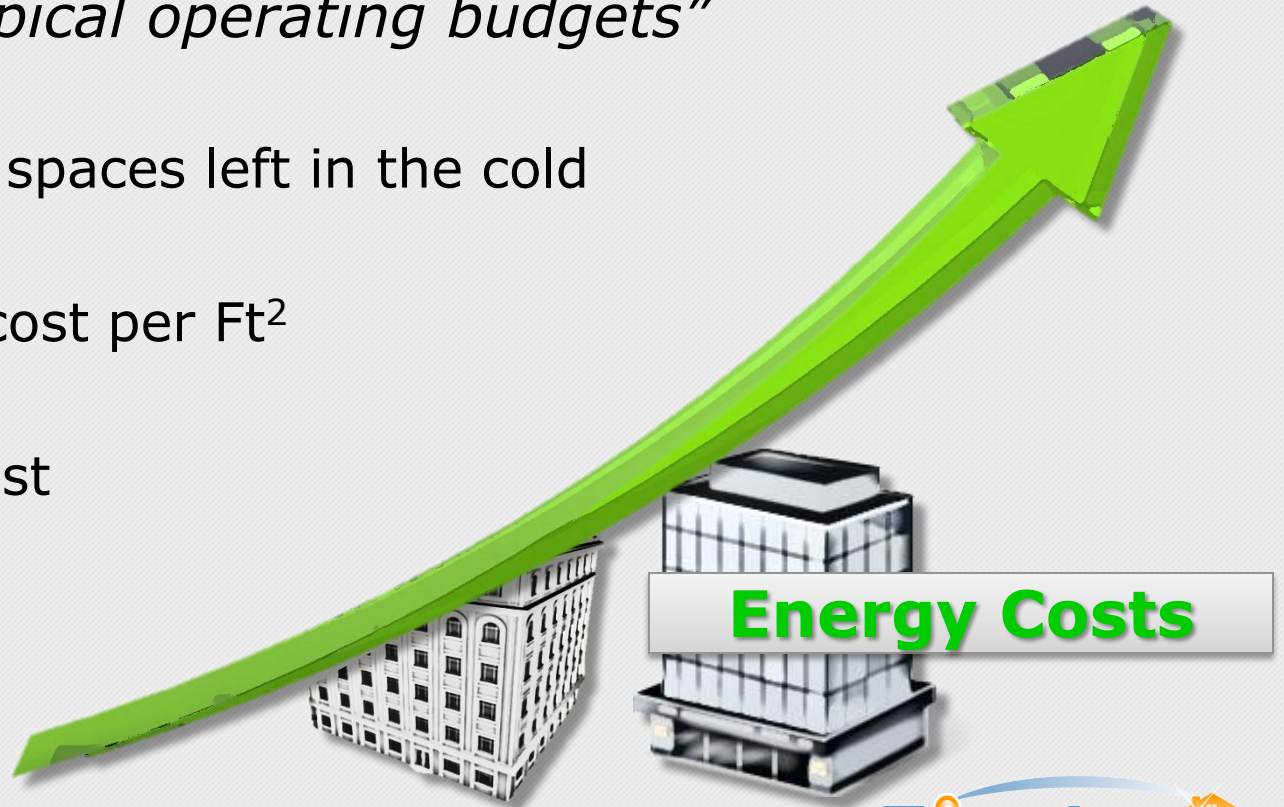
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The Opportunity

"Energy use is the single largest operating expense in commercial office buildings, representing approximately one-third of typical operating budgets"

- Small – Medium spaces left in the cold
- Highest energy cost per Ft²
- Complexity & Cost

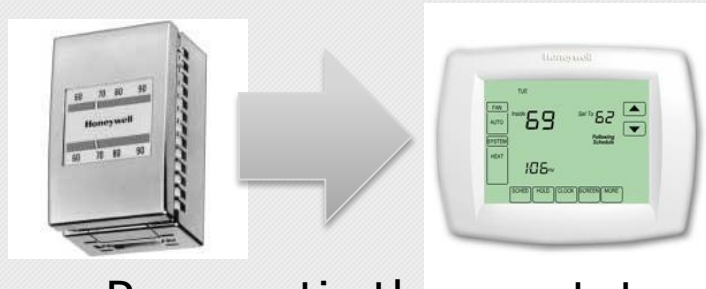


Motivation



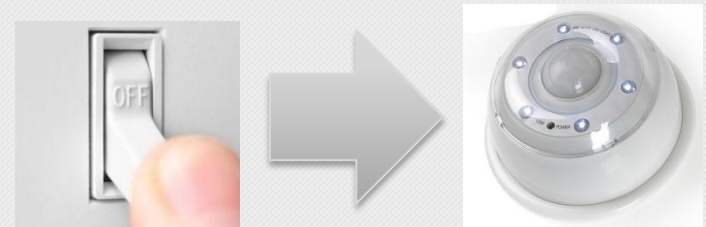
Energy Management

HVAC



Pneumatic thermostats become programmable

Lighting



Light switches become motion controlled

- Address behavior
- Early solutions are rigid and still over reliant on behavior
- Thermostats are rarely programmed, often overridden, and almost never optimally set
- Motion sensors are a crude detection device best relegated to common spaces with lots of movement



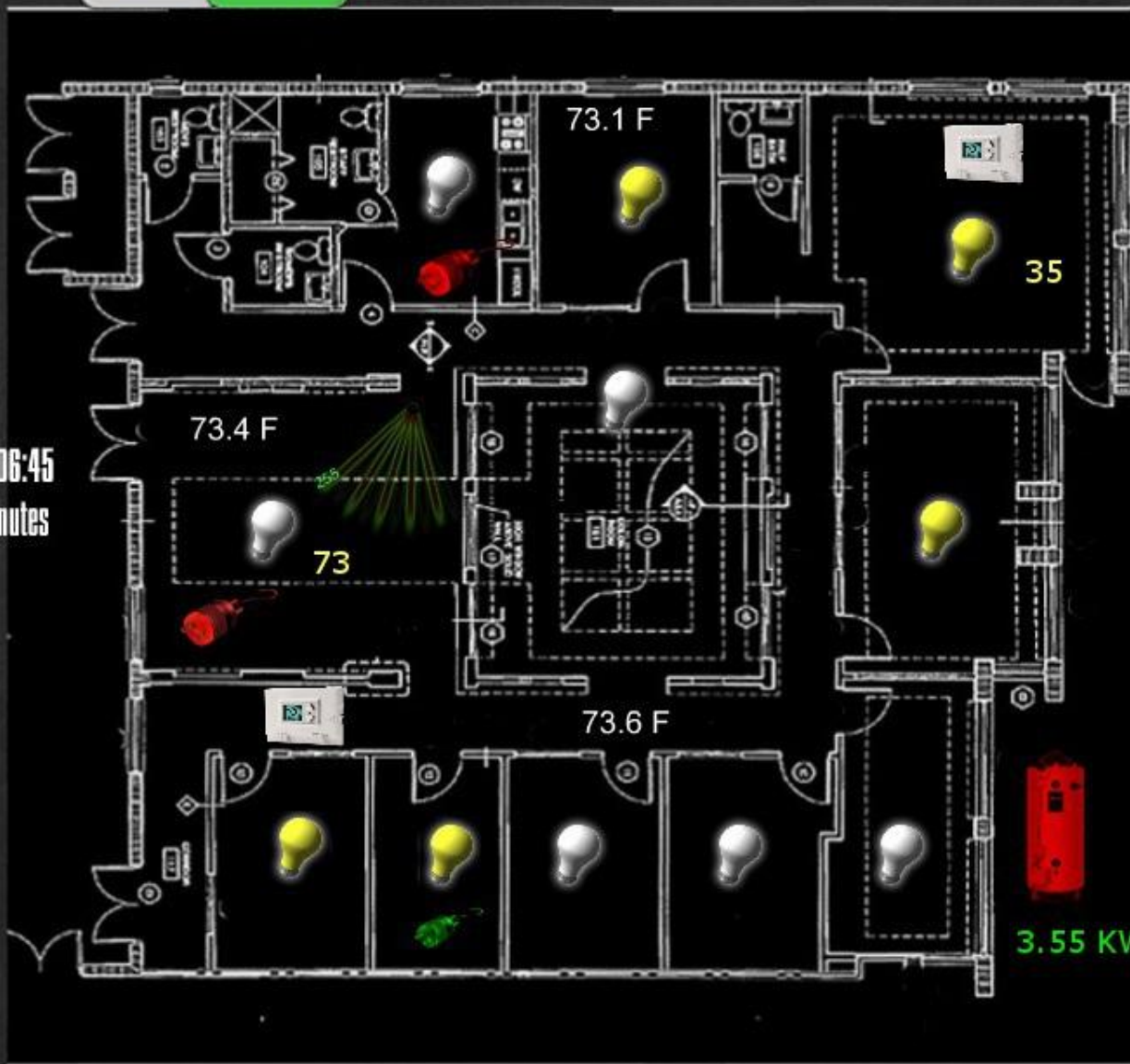
Leave

Arrive

PROJECTED 650 kWh



Wednesday 1st Arrive 06:45
Time to Setpoint 15 minutes
HVAC start 06:30



Wednesday 1st Arrive 08:30
Time to Setpoint 20 minutes
HVAC start 08:10



Next

