Developing the Connected Building
Sinclair Autograph Hotel
The Connected Building
Digital Electricity

- Sending *large amounts* of electricity over 18/2 cables in *packets*.
- Class 2 power that is *safe* to handle, eliminating the need for an electrician to install.
- Intelligent load shedding capabilities to distribute power based on priority in the event of a power outage.
- Allows for the removal of traditional A/C power
PoE Lighting

- By removing the driver from the light, you’re able to power multiple lights with a single driver.
- This allows you to then communicate with each of those lights on a network, getting notifications when maintenance is required.
- The Cisco Digital Building Switch can power all the lights in the room, and can similarly power other low-voltage devices.
LG Advanced Flip Chip LED Package

- LG Innotek succeeded in achieving an LED with a light efficiency of 220 lumens/watt
- Highest light efficiency in the world
- Can withstand a temperature up to 300 degrees
- Priced at only half of that of competitors at home and abroad to compete with Chinese Companies
PoE Motors

- By converting traditional A/C motors to PoE, installation of window shades becomes easy, safe, and inexpensive.
- Responds to other aspects of the network, Voice-activation, and occupancy sensing
- Ultra Quiet Operation
Ivani Bluetooth Mesh Technology

- Bluetooth Mesh technologies provide a way for a multitude of devices to communicate with each other to manage a space on its own. Some of their possibilities include:
  - Occupancy Detection
  - People Counting
  - Inventory Beacons
  - Geo-Fencing

- The availability of Bluetooth products expands every day, making Bluetooth the most flexible and cost-effective product on the market.
Dometic PoE Power Mini Bar

- Solid state coolers allow you to eliminate the refrigerant, compressor, and evaporator that normally goes into a mini bar.
- By eliminating those elements, you reduce the power consumption to a level which can be run with low voltage PoE.
- It also provides more even cooling, eliminates all noise and vibration, and offers more usable space.
Savvy Electric Mirror

- This product by *Electric Mirror* will give every guest room an extremely high tech edge. Some of its features include
  - Watching Television
  - Ordering Room Service
  - Color Changeable Lights
  - Bluetooth Technology to connect to your phone
  - Checking the weather
  - Calling for your car
The Kohler Digital Shower will give the guests a multi-sensory experience by combining different aspects of water, light, sound, and steam. This shower can be controlled by Voice Activation or a PoE powered Touchscreen display that will allow you to change the exact water temperature that you desire.
Assa-Abloy Door Locks

Key features:

- Mobile Access Compatibility
- Wireless online compatibility
- RFID reader with improved reading distance
- Allow for access into room during absence
- Works with most door materials
- **Minimalistic design** allowed by electronics being placed inside the door
Intelligent Backup Systems

Shaving peak loads, Reducing failures, Notification Systems
Centralized Energy Storage System (ESS)

- For the first time in the world, a diesel generator used for emergency power backup will be replaced with a Lithium Ion Battery Pack.
- Diesel generators are loud, unsafe, and require frequent maintenance.
- Energy Storage Systems are already being used in Korea to shave peak loads, integrate with renewable energy solutions, and back up power for different applications.
Welcome to Sinclair
The Hotel of the Future