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Digital Electricity, Battery Storage, PoE Power, Sensing



### **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 Power Advances

- PoE or Power over Ethernet utilizes an ethernet cable to send both power and network communication.
- Cisco switches can now send up to 90W of power across a CAT 5 or 6 cable
- By powering devices this way, you're eliminating the AC/DC power conversion, and establishing devices on a network.
- Devices we're powering in the building include lighting, window shades and curtains, mini bars, smart mirrors, and door locks



### 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.



### UPS Lithium Ion Battery Elevator Back - up

- Advancement in Lithium ion
  Batteries creates compact,
  sustainable, and easily
  maintained backup power
  supply
- Innovation that creates unique guest experience

Tesla 100 KWh Battery Pack



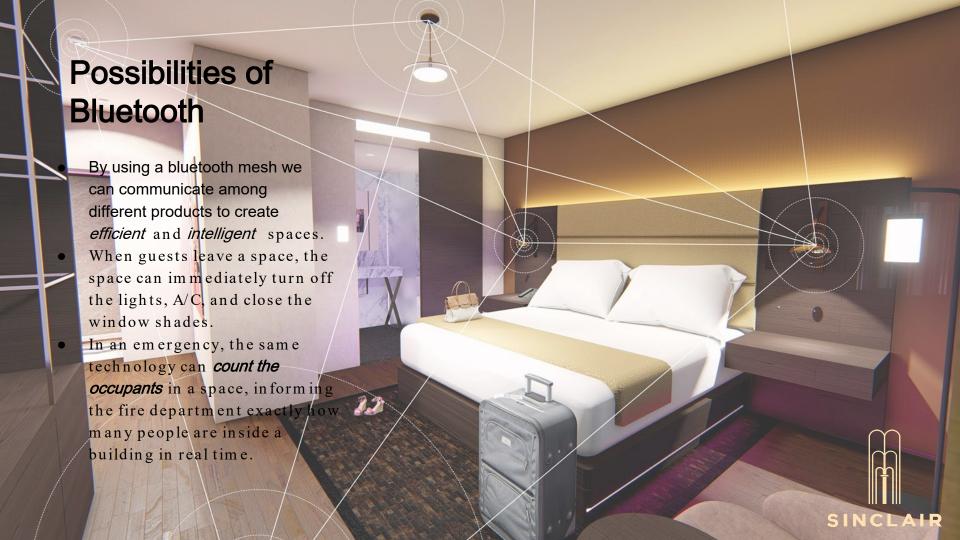
FF91130 KWh Battery Pack



## 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 it's 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







# Kohler DTV+ Digital Shower

- 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



























#### Wicked Butcher Restaurant



