
Energy Management Dashboard



Energy Management Dashboard

Integration

- Device Coordinator <Wifi / Zigbee>
- Thermostats <Wifi / Zigbee>
- Sensors <Wifi / Zigbee>
- Property Management System <PMS>

Device Management

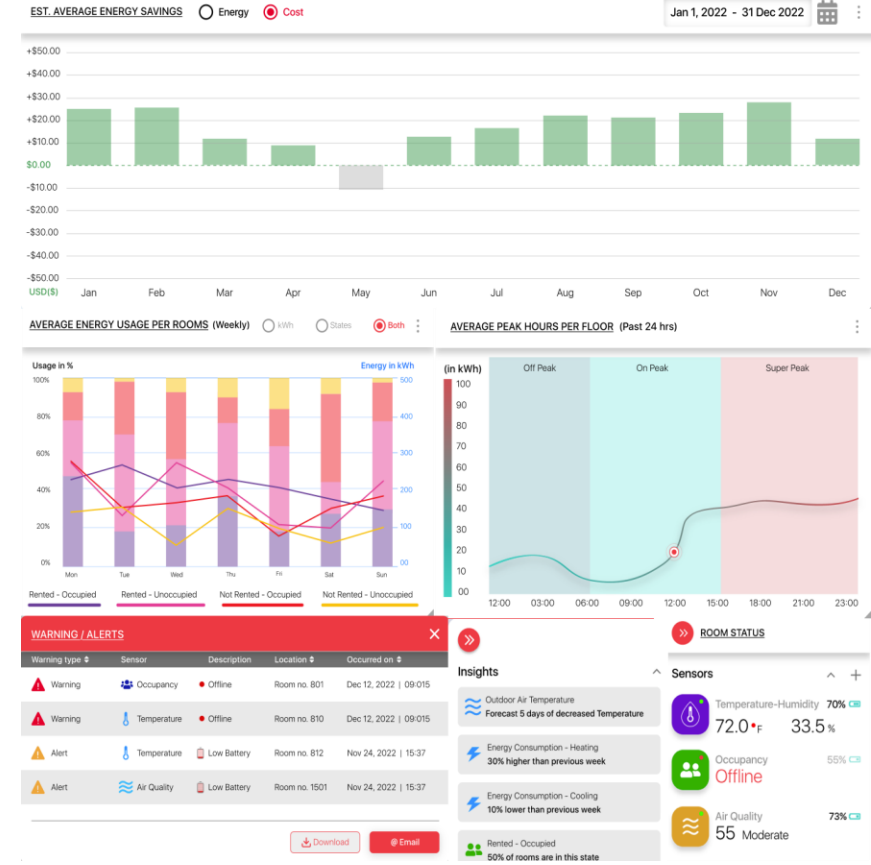
- Intelligent Thermostat Control
- Thermostat Scheduling
- Sensor Status

Reporting

- Est. Savings in USD <Per Site/Floor/Room>
- Est. Savings in kWh <Per Site/Floor/Room>
- Est. Consumption in kWh <Per Site/Floor/Room>
- Est. Consumption in kWh <Per Rental and Occupancy Status>
- Est. Consumption Heatmap in kWh <Per Floor/Room>
- Est. Consumption by Charge Rate <Off-Peak/On-Peak/Super-Peak>
- Trends and Insights <Outdoor Air Temp / Consumption Trends>

Notifications

- Email Notifications
- Dashboard Notifications
- Sensor Status <Offline/Low Battery>
- Abnormal Energy Consumption

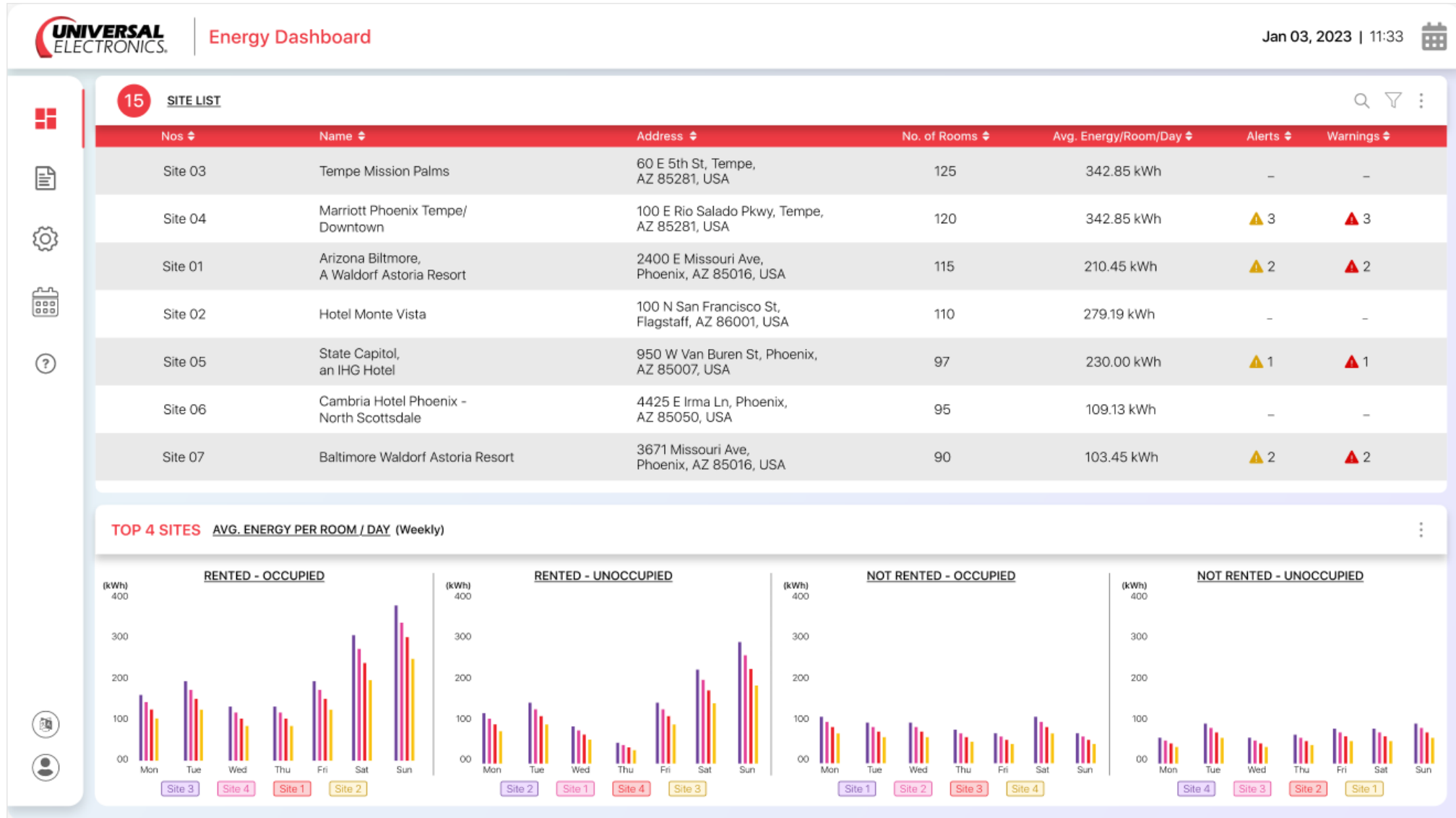


Energy Management Dashboard
Including Device management, reporting & notifications

Organization Overview

ENERGY MANAGEMENT DASHBOARD

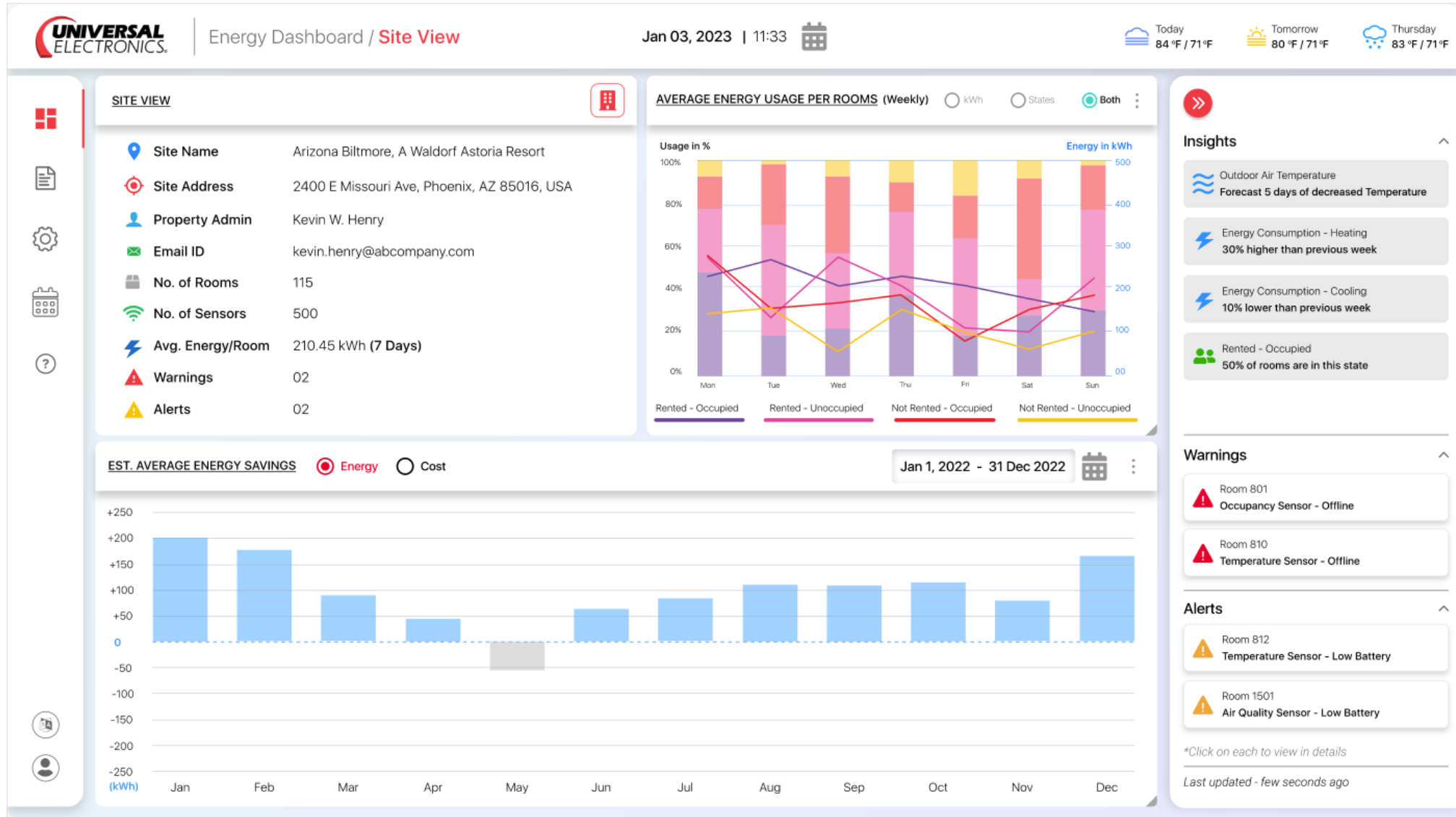
High-level site information and reporting



Site Overview

ENERGY MANAGEMENT DASHBOARD

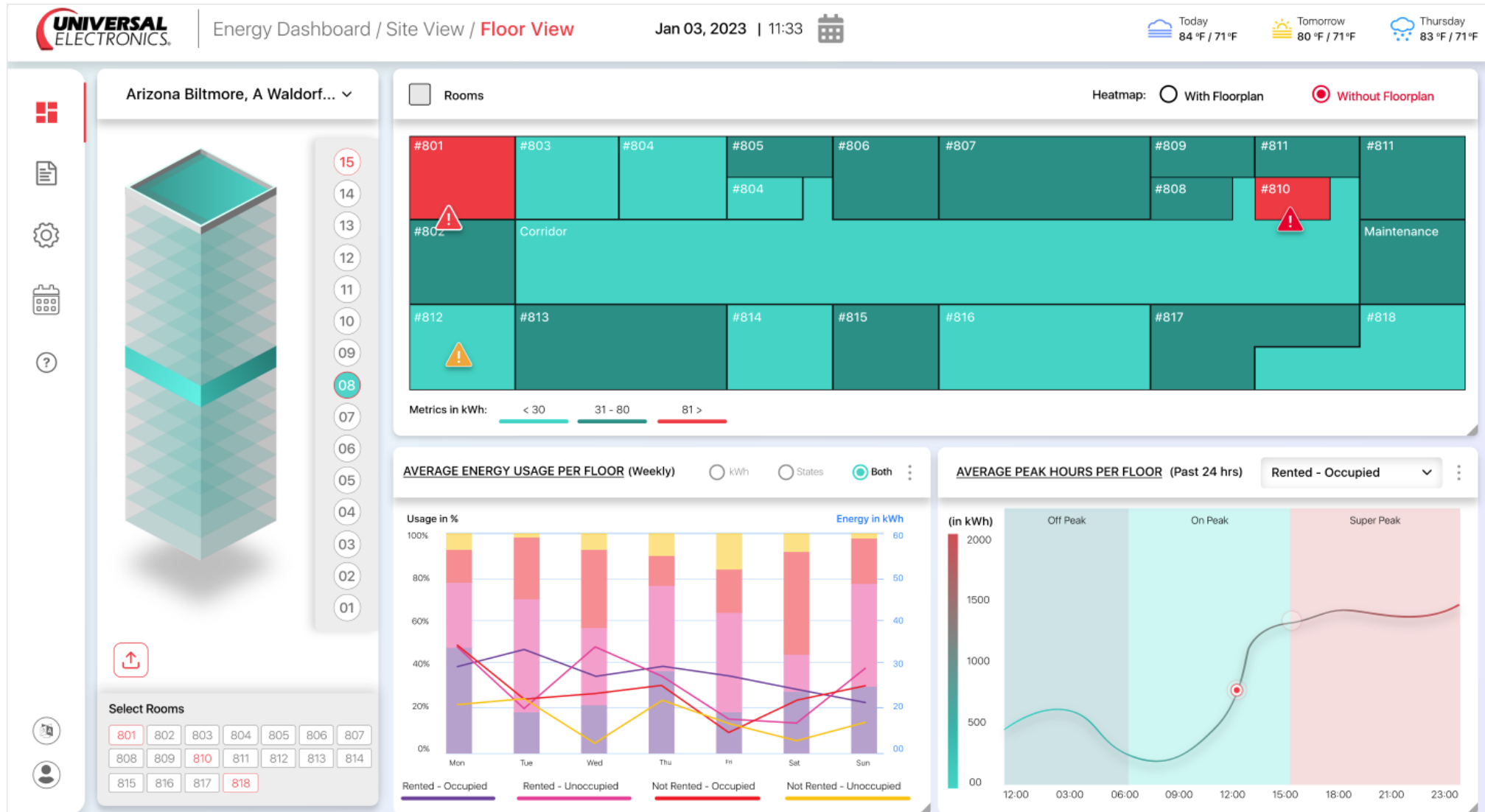
Site Information, Est. Cost & Energy Savings, Reporting



Floor Overview

ENERGY MANAGEMENT DASHBOARD


Heatmap, Reporting, Active Alerts, Est. Consumption based on Peak Hours



Room Overview

ENERGY MANAGEMENT DASHBOARD

View Reports, Sensor Status, Room Insights, Alerts, and Manage Thermostat


Energy Dashboard / Site View / Floor View / **Room View**
Jan 03, 2023 | 11:33

Today 84°F / 71°F
Tomorrow 80°F / 71°F
Thursday 83°F / 71°F

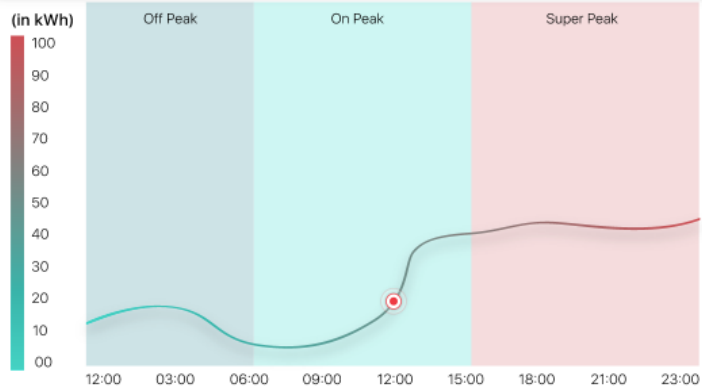
ROOM HEALTH STATUS

Floor 08

| Room | Avg. Usage | Rented | Occupied | Alerts | Warning |
|------|------------|--------|----------|--------|---------|
| 801 | 1.03 kWh | ✓ | ✓ | | ! 01 |
| 802 | 0.08 kWh | ✓ | ✗ | | |
| 803 | 1.03 kWh | ✓ | ✓ | | |
| 804 | 0.08 kWh | ✓ | ✗ | | |
| 805 | 1.03 kWh | ✓ | ✓ | | |
| 806 | 0.08 kWh | ✓ | ✗ | | |
| 807 | 1.03 kWh | ✓ | ✓ | | |
| 808 | 0.08 kWh | ✓ | ✗ | | |
| 809 | 1.03 kWh | ✓ | ✓ | | |
| 810 | 0.08 kWh | ✓ | ✗ | | ! 01 |
| 811 | 1.03 kWh | ✓ | ✓ | | |
| 812 | 0.08 kWh | ✓ | ✗ | ! 01 | |
| 813 | 1.03 kWh | ✓ | ✓ | | |
| 814 | 0.08 kWh | ✓ | ✗ | | |
| 815 | 1.03 kWh | ✓ | ✓ | | |
| 816 | 0.08 kWh | ✓ | ✗ | | |
| 817 | 1.03 kWh | ✓ | ✓ | | |

AVERAGE PEAK HOURS PER FLOOR (Past 24 hrs)

(in kWh)



STATUS

Sensors

- Temperature-Humidity: 70% ✔
72.0°F 33.5%
- Occupancy: 55% ✔
Offline
- Air Quality: 73% ✔
55 Moderate

*Click on each Device to view details

Insights

- Energy Consumption - Heating: 30% higher than previous week
- Energy Consumption - Cooling: 10% lower than previous week
- Outdoor Air Temperature: Forecast 5 days of decreased Temperature

Warnings

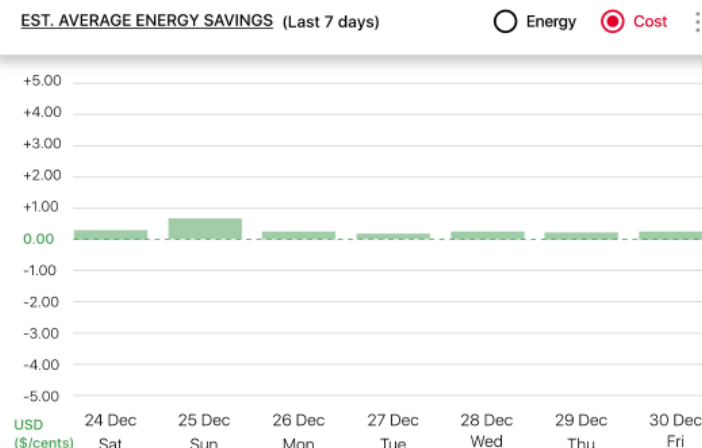
- Room 801: Occupancy Sensor - Offline

Alerts

Thermostat

EST. AVERAGE ENERGY SAVINGS (Last 7 days)

Energy Cost



Thermostat Control Overview (1/4)

Manage Thermostat Settings

The screenshot displays the 'THERMOSTAT' configuration page in the Universal Electronics Energy Dashboard. The breadcrumb trail is 'Energy Dashboard / Site View / Floor View / Room View'. The current date and time are 'Jan 03, 2023 | 11:33'. The interface is divided into several sections:

- Configurations:** A red header bar with a back arrow and the word 'THERMOSTAT'.
- My Favorite Configurations:** A section with an 'Add as Schedule' button and a plus sign icon.
- Temperature:**
 - Mode:** Four buttons: Auto (circular arrow), Cool (snowflake), Heat (flame), and Off (power button). The 'Cool' mode is selected.
 - Fan:** Five buttons: Auto (circular arrow), Low (green bar chart), Medium (yellow bar chart), High (red bar chart), and Off (power button). The 'Low' fan speed is selected.
- Minimum and Max Setpoints:** A horizontal slider ranging from 60°F to 90°F. The current cooling setpoint is 67°F and the heating setpoint is 74°F. Below the slider are input fields for 'Cooling (in °F)' and 'Heating (in °F)' with minus and plus adjustment buttons.
- Occupancy:** A section titled 'Rented Setpoints' is visible at the bottom.

At the bottom right of the interface are two buttons: 'Apply' and 'Save'.

Thermostat Control Overview (2/4)

Settings Based on Rental/Occupancy Status to Maximize Savings

The screenshot displays a thermostat control interface with a red header bar containing a back arrow and the text "THERMOSTAT". Below the header, there are two tabs: "Configurations" (which is underlined) and "My Favorite Configurations". To the right of these tabs is a red button with a white plus sign and the text "Add as Schedule".

The interface is divided into three sections based on occupancy status:

- Rented Setpoints:** This section has a green toggle switch turned on. It shows "Occupied Setpoint" with a cooling setpoint of 67°F and a heating setpoint of 74°F. A horizontal slider below shows the temperature range from 60°F to 90°F, with a blue dot at 67°F and a red dot at 74°F.
- Unoccupied Setpoint:** This section also has a green toggle switch turned on. It shows "Unoccupied Setpoint" with a cooling setpoint of 67°F and a heating setpoint of 74°F. The slider is identical to the Rented section.
- Not Rented Setpoints:** This section has a green toggle switch turned on. It shows "Occupied Setpoint" with a cooling setpoint of 67°F and a heating setpoint of 74°F. The slider is identical to the Rented section.

Each section includes a "min" label at the 60°F mark and a "max" label at the 90°F mark on the slider. The slider has tick marks at 60°F, 65°F, 70°F, 75°F, 80°F, 85°F, and 90°F.

Thermostat Control Overview (3/4)

Favorites for each season can be created and scheduled

The screenshot shows a thermostat control interface with a red header bar containing a back arrow and the word "THERMOSTAT". Below the header, there are two tabs: "Configurations" and "My Favorite Configurations", with the latter being selected. To the right of the tabs is a red button labeled "Add as Schedule" with a plus sign icon. Below the tabs are four seasonal buttons: "Winter" (highlighted in red), "Spring", "Summer", and "Fall".

The interface is divided into three sections:


- Rented Setpoints:**
 - Occupied Setpoint:** A toggle switch is turned on. Below it are two sliders. The "Cooling (in °F)" slider has a blue knob at 67°F and a red knob at 75°F. The "Heating (in °F)" slider has a blue knob at 65°F and a red knob at 74°F. The range is from 60°F (min) to 90°F (max).
 - Unoccupied Setpoint:** A toggle switch is turned on. Below it are two sliders. The "Cooling (in °F)" slider has a blue knob at 67°F and a red knob at 75°F. The "Heating (in °F)" slider has a blue knob at 65°F and a red knob at 74°F. The range is from 60°F (min) to 90°F (max).
- Not Rented Setpoints:**
 - Occupied Setpoint:** A toggle switch is turned on. Below it are two sliders. The "Cooling (in °F)" slider has a blue knob at 67°F and a red knob at 75°F. The "Heating (in °F)" slider has a blue knob at 65°F and a red knob at 74°F. The range is from 60°F (min) to 90°F (max).


Thermostat Control Overview (4/4)

Bulk Management

Settings can be applied to an individual thermostat, select floors or rooms, to an entire site

Add as Schedule ✕

Start Date
 

Start Time
 

Bulk Schedule

Select Floor(s)

Select Room(s)


Floor 1 ✕ All Rooms ✕





Floor 8 ✕ 801 ✕ 802 ✕ 810 ✕
820 ✕

Save

Reporting Overview

Generate Cost and Energy Savings Reports
Exportable via PDF, Email, Print


Report

Arizona Biltmore, ▾
All Floors ▾
Daily ▾
Dec 22, 2022 
Generate Report
  

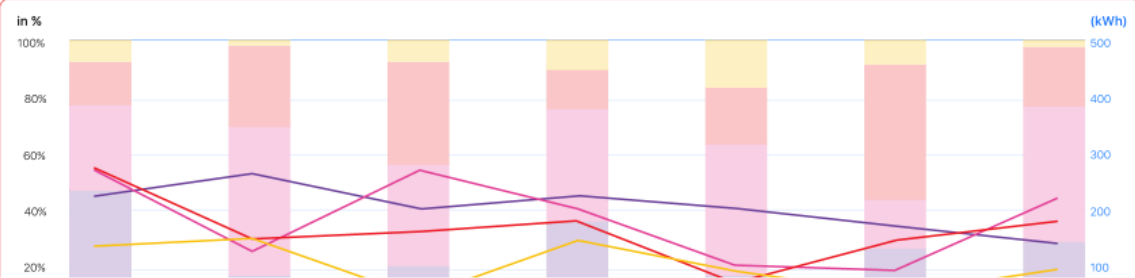
Report

| | | | |
|-----------------------|---|-------------------------|---------------------|
| Site Name | Arizona Biltmore, A Waldorf Astoria Resort | No. of Rooms | 100 |
| Site Address | 2400 E Missouri Ave, Phoenix, AZ 85016, USA | No. of Sensors | 500 |
| Property Admin | Kevin W. Henry | Avg. Energy/Room | 210.45 kWh (7 Days) |
| Email ID | kevin.henry@abcompany.com | Warnings/Alerts | 04 |

| WARNINGS | | | |
|-------------|-------------|--------------|---------------------|
| Sensor | Description | Location | Occurred on |
| Occupancy | Offline | Room no. 801 | Dec 12, 2022 09:015 |
| Temperature | Offline | Room no. 810 | Dec 12, 2022 09:015 |

| ALERTS | | | |
|-------------|-------------|---------------|--------------------|
| Sensor | Description | Location | Occurred on |
| Air Quality | Low Battery | Room no. 812 | Nov 24, 2022 15:37 |
| Temperature | Low Battery | Room no. 1501 | Nov 24, 2022 15:37 |

AVG. ENERGY PER ROOM / DAY (Weekly)



Thank you!

