



HOW DOES AI ENABLE BETTER MICROGRID MANAGEMENT?

A Linux Foundation Project on the PAE Living Building presented to Microgrid Consortium
February 27, 2026

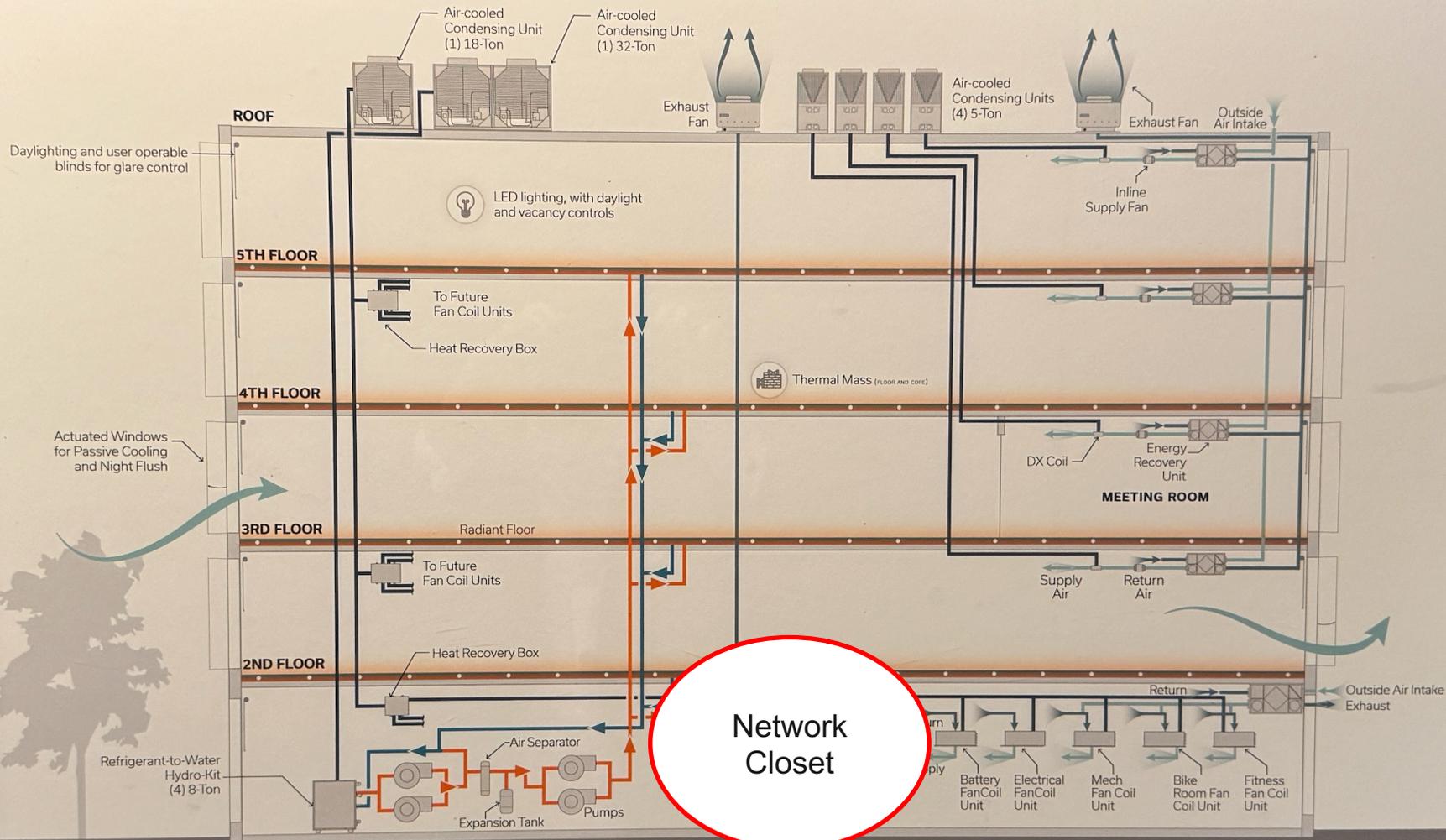


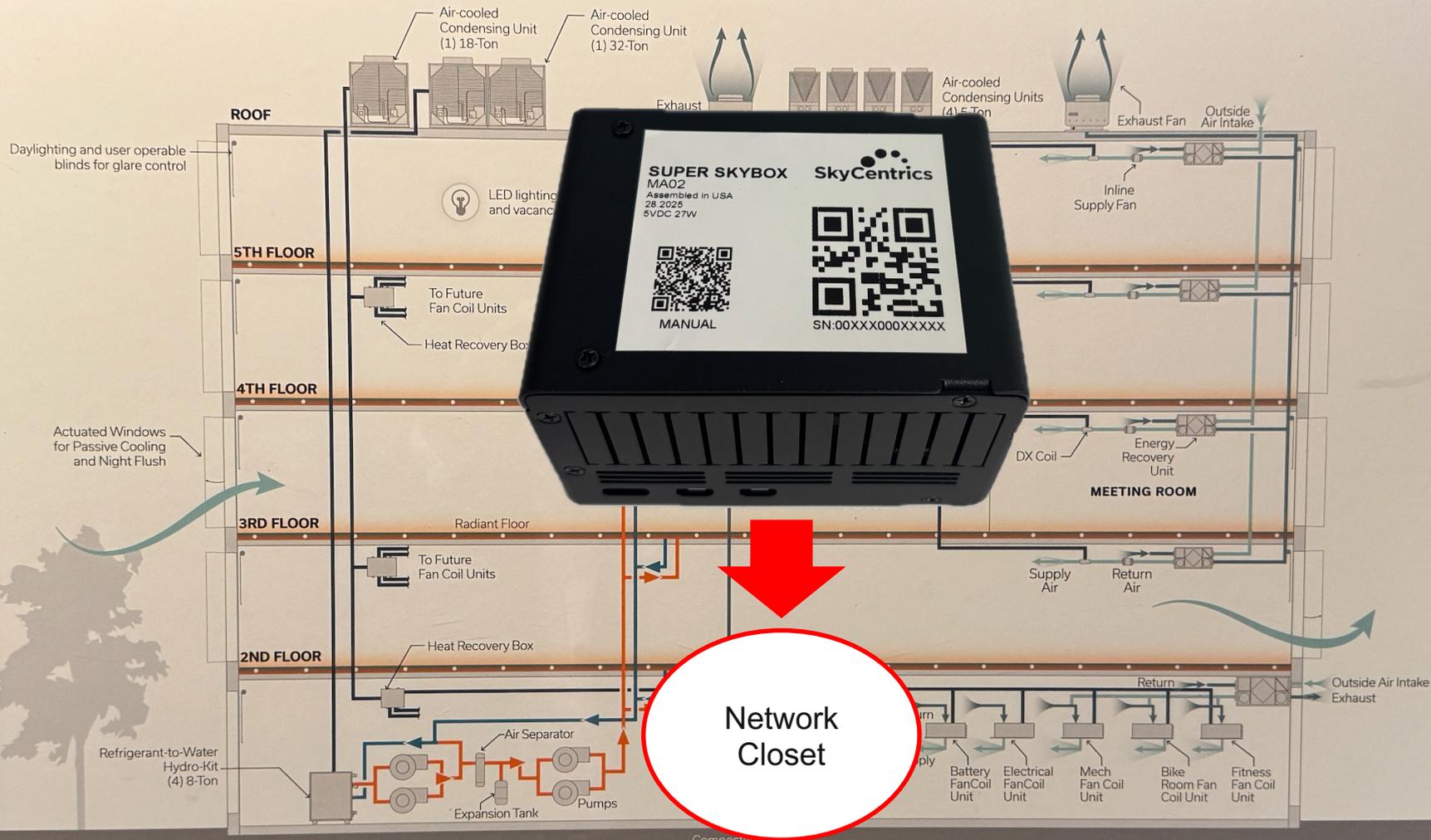
PAE Living Building Published and Recognized as Exemplar

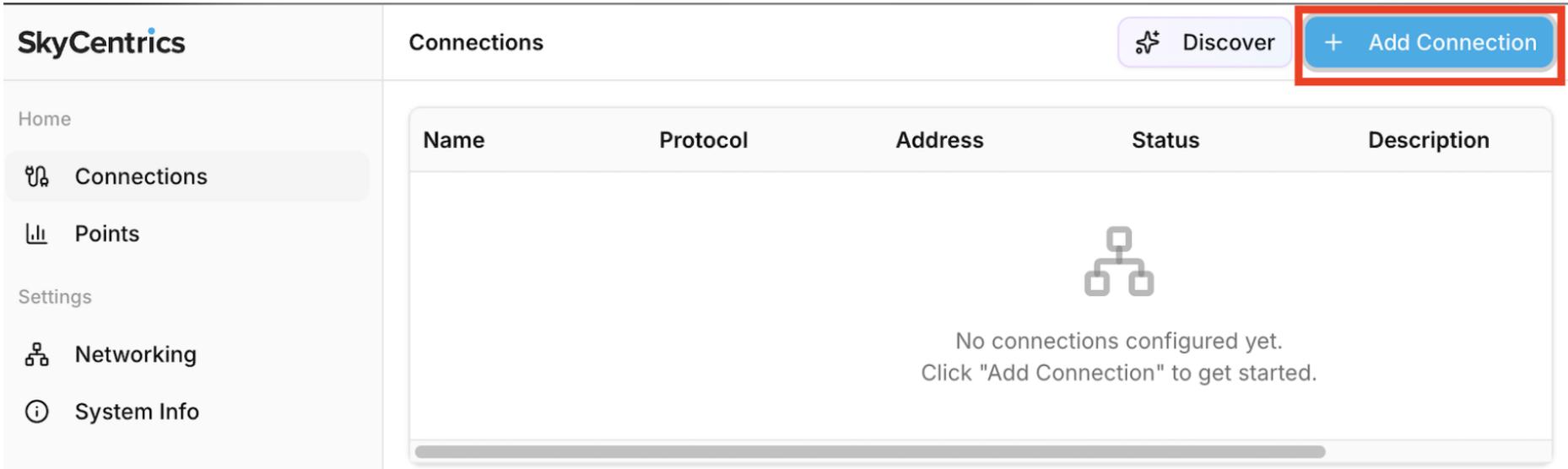
- Solar Edge solar inverter
- Schneider Electric Microgrid Controller
- Schneider Sub-Metering of every circuit
- Battery Energy Management System (BESS)
- LG Hydronic Floor Heating System
- Digital Lumens Lighting Control System
- Lochinvar Heat Pump Water Heaters
- Automated Logic Building Management System (BMS)
- Copper Tree Analytics System

But visibility on all systems in one place was challenging.





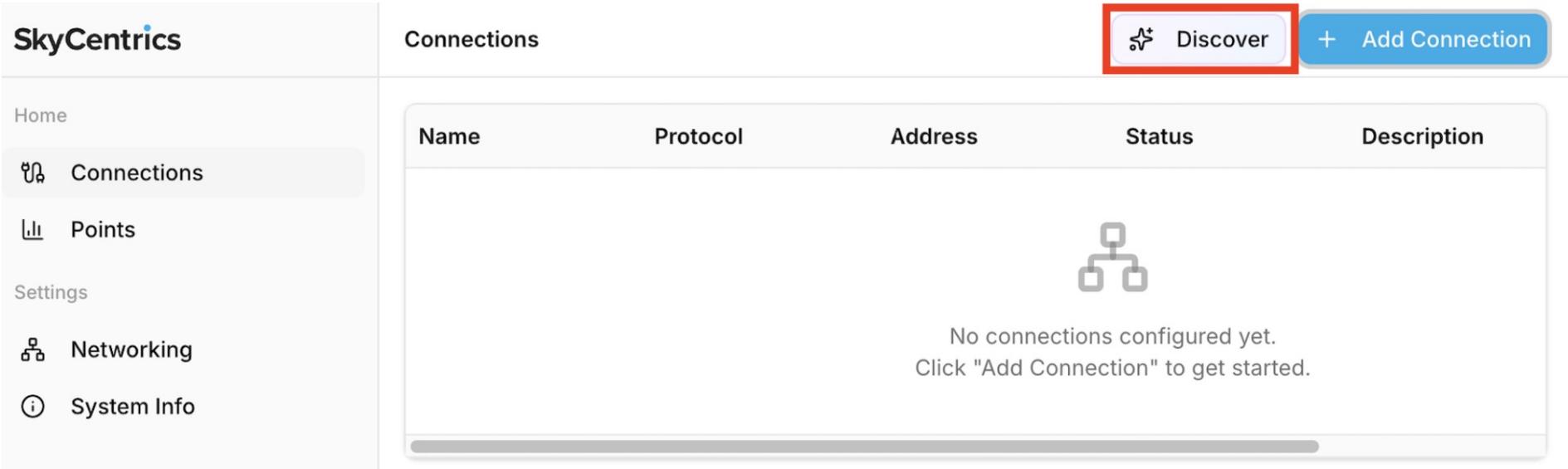




The screenshot shows the SkyCentrics web interface. On the left is a navigation sidebar with the following items: Home, Connections (highlighted), Points, Settings, Networking, and System Info. The main content area is titled 'Connections' and contains two buttons: 'Discover' and 'Add Connection'. The 'Add Connection' button is highlighted with a red rectangular box. Below the buttons is a table with the following headers: Name, Protocol, Address, Status, and Description. The table is currently empty, displaying a tree icon and the text: 'No connections configured yet. Click "Add Connection" to get started.'

Name	Protocol	Address	Status	Description
 <p>No connections configured yet. Click "Add Connection" to get started.</p>				

BACnet and Modbus Point Discovery – AI Enhanced Auto-Magical



SkyCentrics

Connections

Discover + Add Connection

Name	Protocol	Address	Status	Description
 <p>No connections configured yet. Click "Add Connection" to get started.</p>				

BACnet and Modbus “Send to Cloud” Toggle

SkyCentrics Connections > Belimo_demokit_2 Enabled [Edit](#)

Belimo_demokit_2 BACnet IP

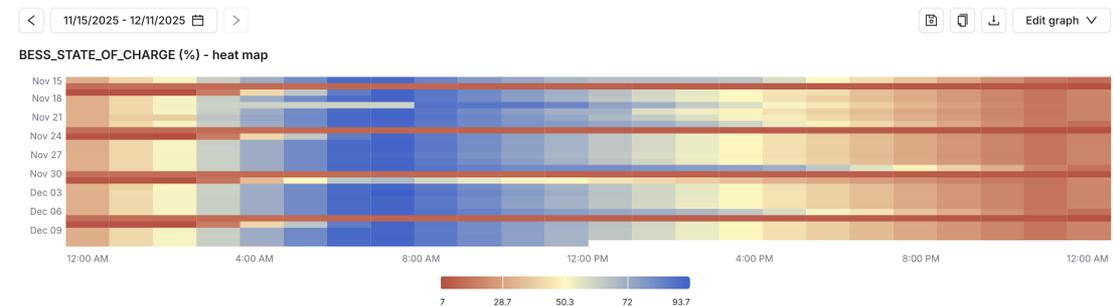
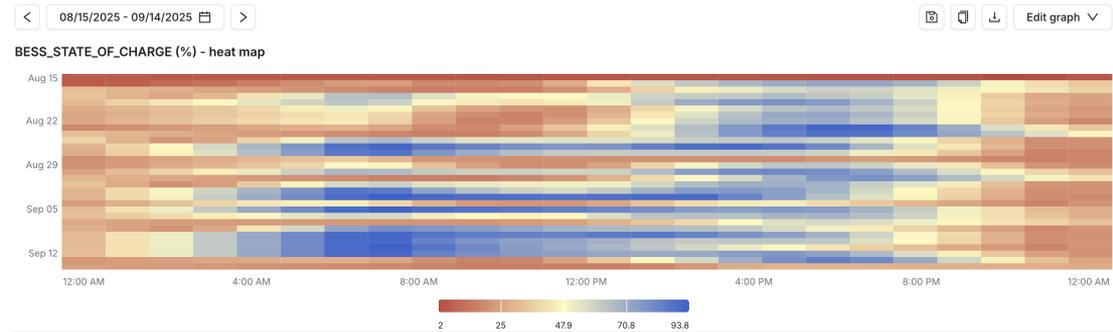
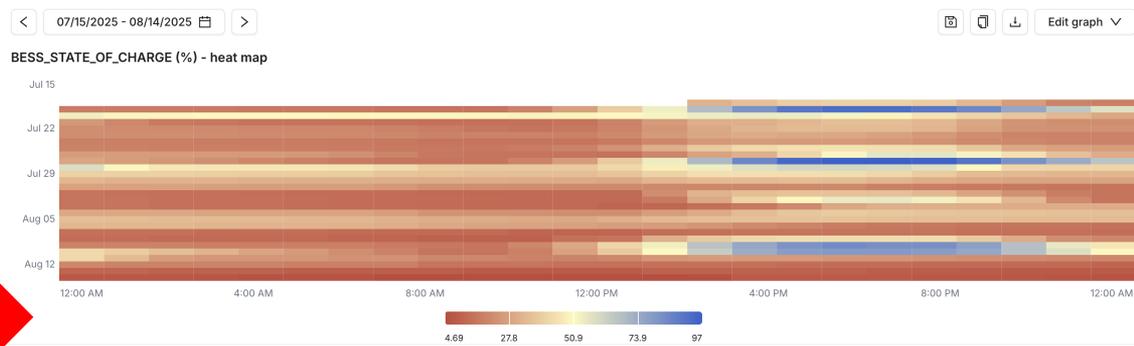
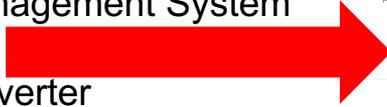
Description	Address	Device ID
BELIMO Automation AG	192.168.12.220	4096
Client IP	Poll Interval	
192.168.12.229/24	60s	

Points [Discover Points](#) [+ Add Point](#)

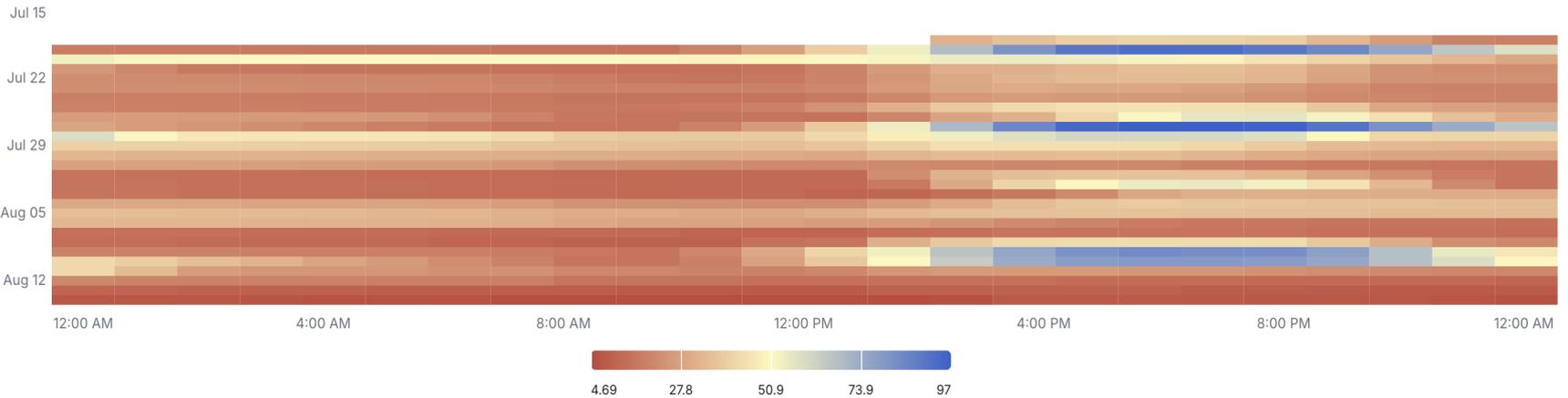
Object Name	Object Type	Instance	Zone	Room	Unit	Send to cloud
RelPos	Analog Input	1	—	—	%	<input type="checkbox"/>
AbsPos	Analog Input	2	—	—	°	<input type="checkbox"/>
SpAnalog	Analog Input	6	—	—	%	<input type="checkbox"/>
S1	Analog Input	20	—	—	—	<input type="checkbox"/>
S2	Analog Input	21	—	—	—	<input type="checkbox"/>
SummaryStatus	Binary Input	101	—	—	—	<input type="checkbox"/>
SpRel	Analog Output	1	—	—	%	<input type="checkbox"/>

DATA FIRST Everything Connected... and Visible

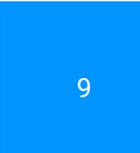
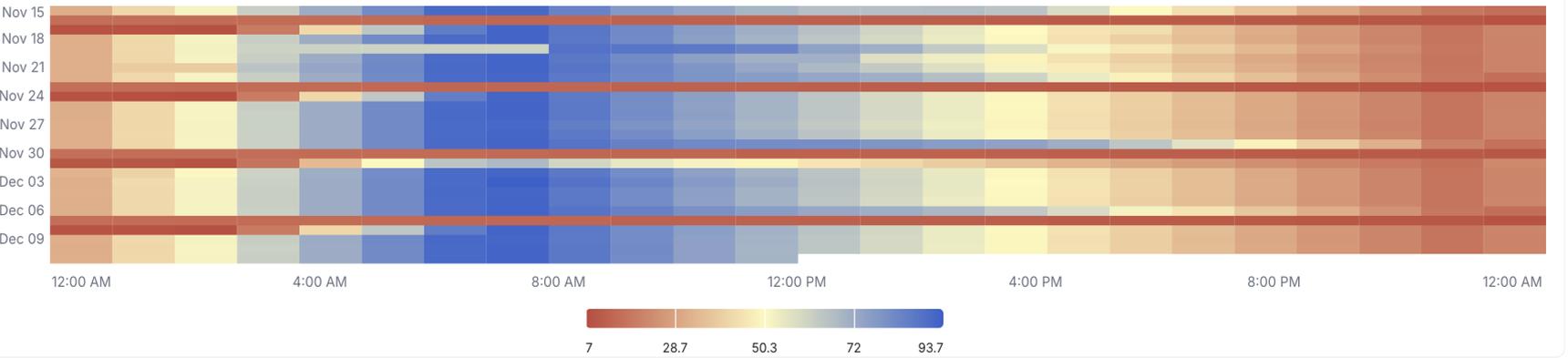
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BESS_STATE_OF_CHARGE (%) - heat map



BESS_STATE_OF_CHARGE (%) - heat map



One Machine Was Smart, but Not Connectible

Smart Yes

- Has an LCD screen
- Can be scheduled (24/7 repeating)

Connectible No

- Not Modbus
- Not BACnet
- No relays
- Nothing
- Have to wait for a new board from the manufacturer

Value of Being Connected

- Use afternoon solar to heat water
- On high solar day, load up at night, shed in morning, load up with solar in afternoon



Benefits So Far from Data Visibility

Enabling for Grid Incentives through Open Automated Demand Response Open ADR

Power meter

bad data being delivered – discovered broken

Lighting was not correct

Light stays on even if occ sensor is unoccupied

Occ Sensors mapped to wrong room

Battery - not charging at correct times

Solar - symmetric but possibly shouldn't be

50 kW switch trigger management

Lochinvar - Not connectible – getting a new board

Next Benefits from Controls and Orchestration

24 hour ahead demand prediction

Determine LOAD FLEX

Reduce peak demand charges by FLEXING LOADS

Battery, Solar, Weather, Hydronic HVAC, Pumps

Test workflow to 'auto-magically' transform data to open standard formats (223, RDF)

Do it all with open standard 231 control sequences

Data Integrations

Stephen Lothrop

Organization

Projects

Integrations

Available 12 Enabled 0

Search + Type + Category

Recent Projects

Portland

- Buildings
- Assets
- Reports
- Collaborators

 **Grafana**
Analytics & BI
Stream real-time metrics to Grafana for customizable monitoring dashboards, alerts,...

 **No Code Data Export**
Data Export
Export your DREAM data without writing code. Configure automated exports to CSV, JSON, ...

 **Power BI**
Analytics & BI
Export your DREAM data directly to Microsoft Power BI for advanced business intelligence...

 **SkySpark**
Building Management
Connect to SkySpark for advanced building analytics, fault detection, and energy...

 **Tableau**
Analytics & BI
Connect DREAM to Tableau for powerful data visualization, interactive dashboards, and...

 **ARC GIS - ESRI**
GIS & Mapping
Connect to ESRI ArcGIS for geospatial analysis, mapping building portfolios, and...

 **CMMS**
Operations
Integrate with Computerized Maintenance Management Systems to sync work orders,...

 **eView**
Building Management
Import energy management data from eView systems to consolidate your building...

 **Graph DB**
Databases
Export building relationship data to graph databases for advanced network analysis an...

 **Tandem**
Building Management
Integrate with Autodesk Tandem digital twin platform to visualize building data in 3D...

 **IBM Maximo**
Building Management
Connect DREAM to IBM Maximo for powerful data visualization, interactive dashboards, an...

 **Oracle NetSuite**
Analytics & BI
Connect DREAM to Oracle NetSuite for powerful data visualization, interactive...

Data Integrations

Stephen Lothrop ▾

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Grafana Analytics & BI
Stream real-time metrics to Grafana for customizable monitoring dashboards, alerts,...

No Code Data Export Data Export
Export your DREAM data without writing code. Configure automated exports to CSV, JSON, ...

Power BI Analytics & BI
Export your DREAM data directly to Microsoft Power BI for advanced business intelligence...

SkySpark Building Management
Connect to SkySpark for advanced building analytics, fault detection, and energy...

Tableau Analytics & BI
Connect DREAM to Tableau for powerful data visualization, interactive dashboards, and...

ARC GIS - ESRI GIS & Mapping
Connect to ESRI ArcGIS for geospatial analysis, mapping building portfolios, and...

CMMS Operations
Integrate with Computerized Maintenance Management Systems to sync work orders,...

eView Building Management
Import energy management data from eView systems to consolidate your building...

Graph DB Databases
Export building relationship data to graph databases for advanced network analysis an...

Tandem Building Management
Integrate with Autodesk Tandem digital twin platform to visualize building data in 3D...

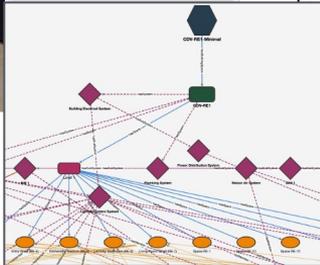
IBM Maximo Building Management
Connect DREAM to IBM Maximo for powerful data visualization, interactive dashboards, an...

Oracle NetSuite Analytics & BI
Connect DREAM to Oracle NetSuite for powerful data visualization, interactive...



Battery Room

Node Information
 ID: ElectricalSystem_01
 Label: Building Electrical System
 Type: System
 Full Type: s223:System
 No additional properties
Connections:
 -- hasSystem CDV-RE1
 -- hasSubSystem Power Distribution System
 -- hasSubSystem Lighting Control System



Connecting to other vendor



PAE

List Save and return to list Save

#3342-19171 (Assigned) BESS_STATE_OF_CHARGE (Battery Charge) is below 15%

Request Location Assignment Tasks Completion

PAE

IBB-1 - PAE Smart Living Building

LEVEL 1

126 - Main Electrical Room

optional

Attach component(s) from selected space

No component selected (optional)

- 1543 | PAE - Generic Equipment | Standard
- 109 | PAE - Thermostat |
- 108 | PAE - Thermostat |
- 1016 | PAE - Ground Bar | Standard
- FCU-105 | PAE - Generic Mech Eqpm | PAE - Generic Mech Eqpm
- 85 | PAE - Panelboard | 1 - Surface - Standard
- 84 | PAE - Panelboard | 1 - Surface - Standard

ONUMA.com

Label Style

Zoom Extent

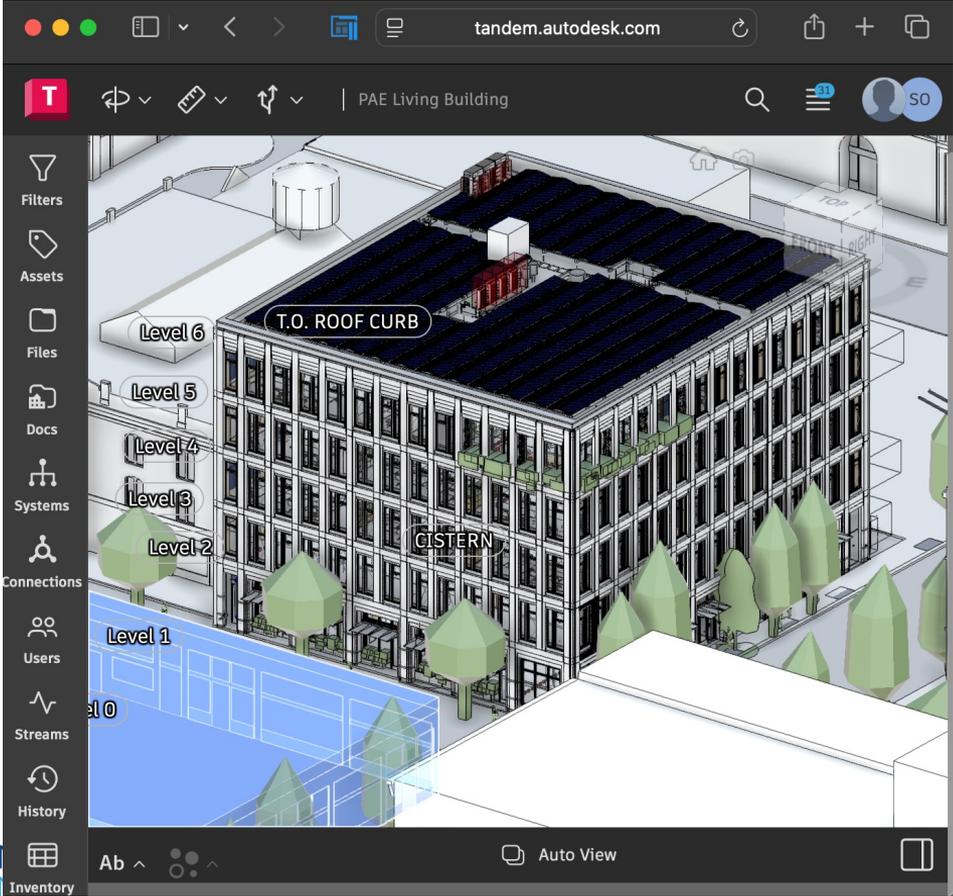
Attachments

Select files... Drop files here to upload

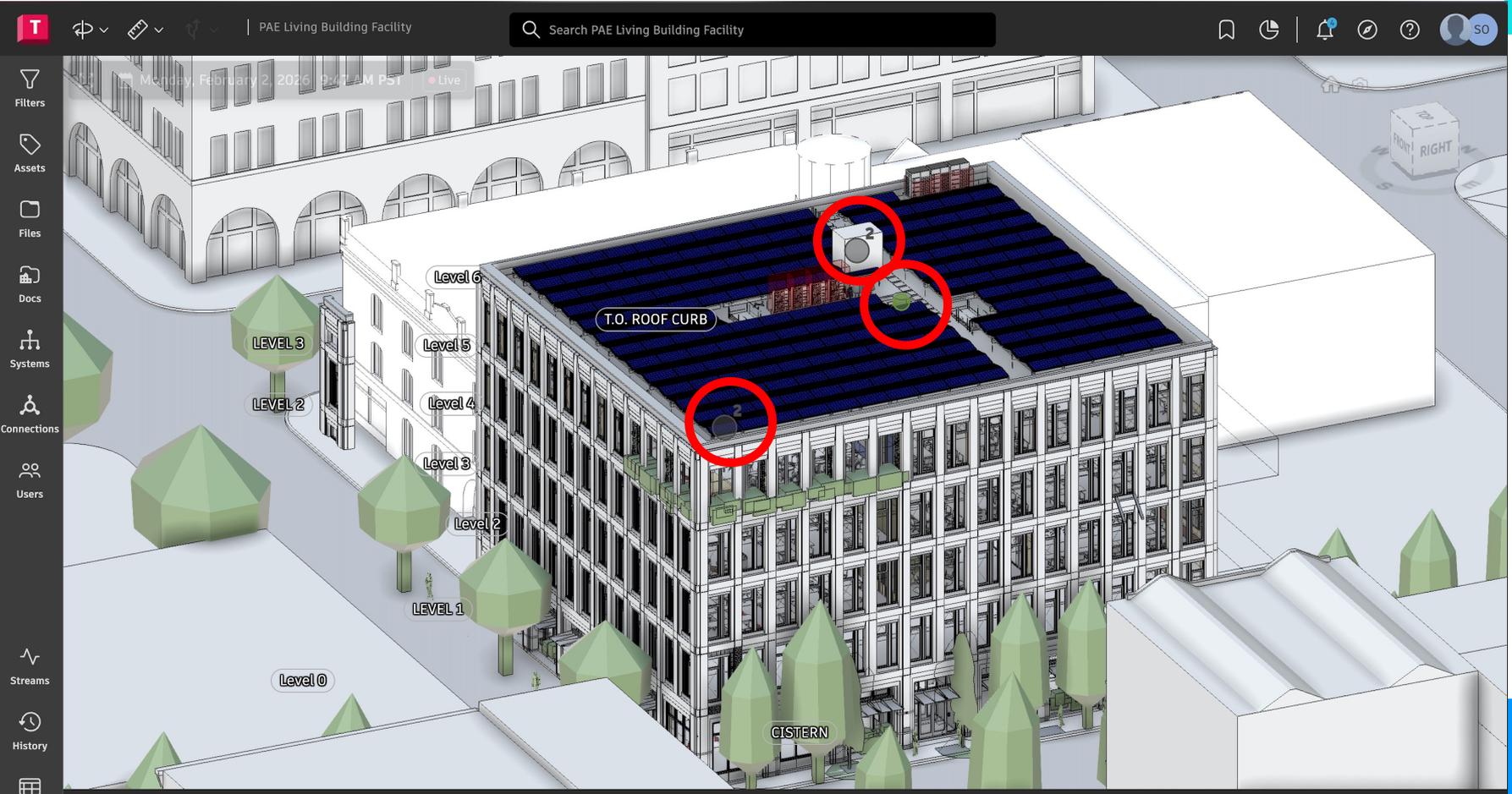


Live cloudBIM & Work Order

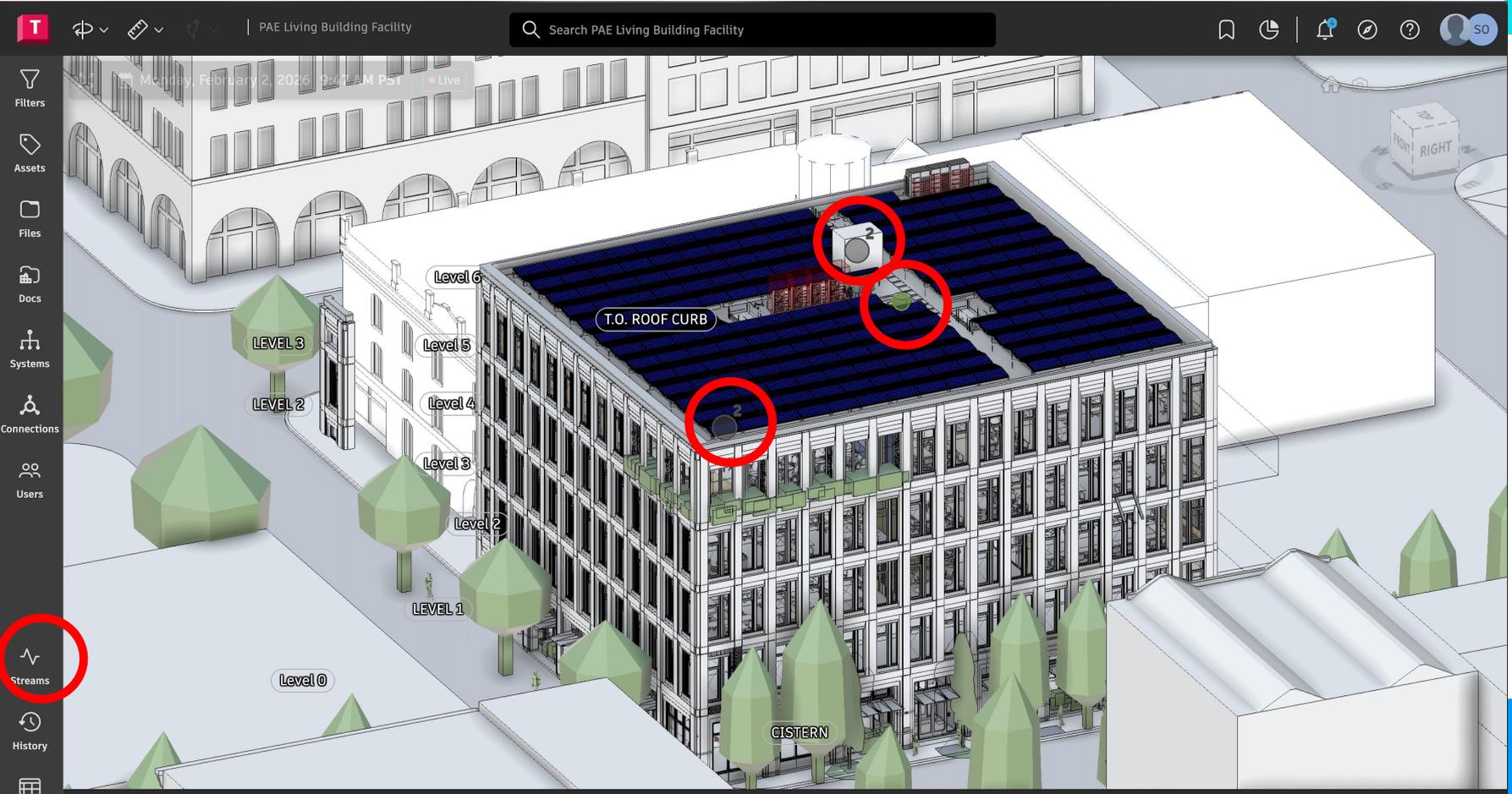
Connecting to Autodesk Tandem



Data on Autodesk Tandem is shown by 'pins'



Live Data on Autodesk Tandem is called 'Streams'



SkyBox IBB Delivers Live Data Streams to Tandem

PAE Living Building Facility

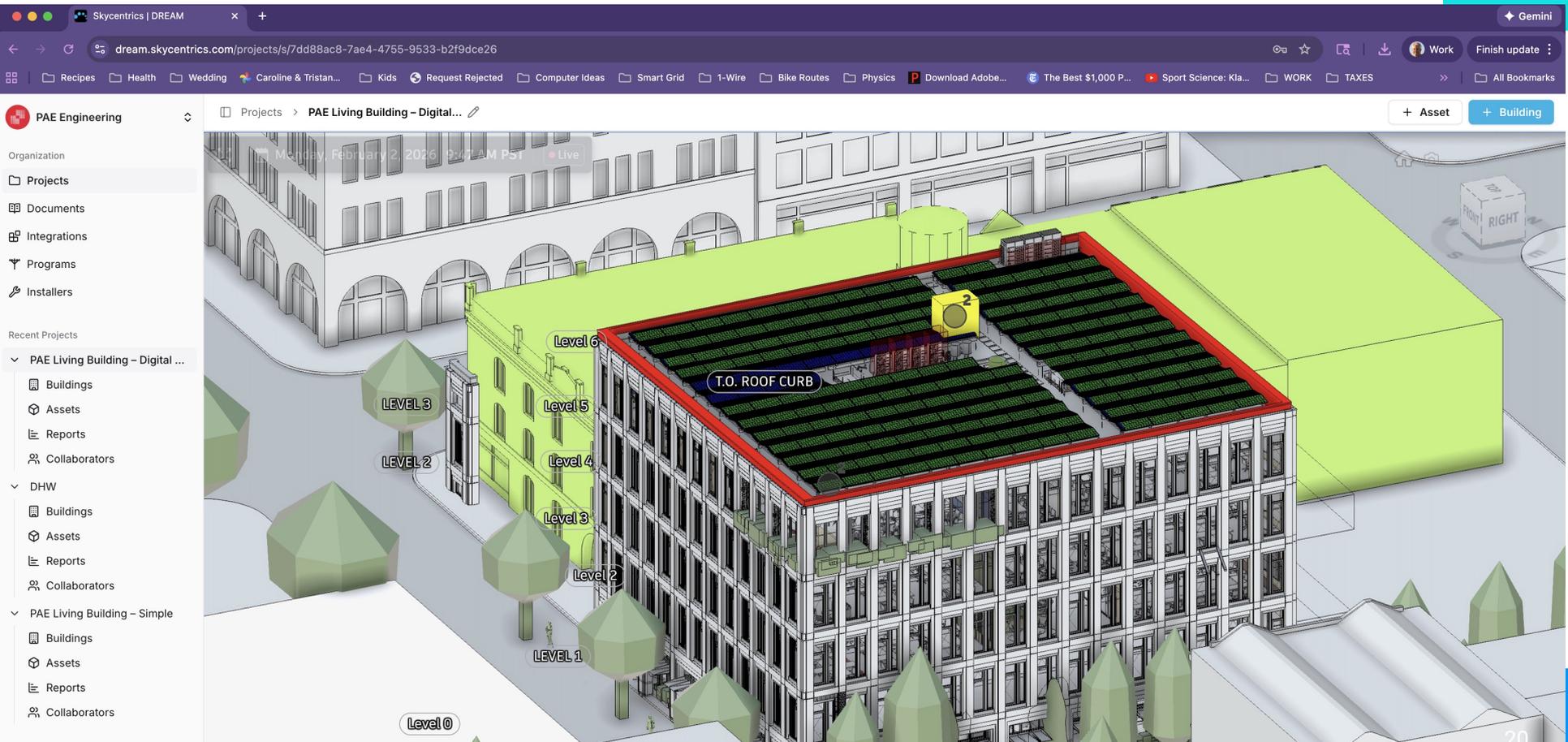
Monday, February 2, 2026 10:36 AM PST

State of charge rooftop battery

Active Power	Active Power W...	Frequency	Percentage
No data ?	No data ?	No data ?	47% 1 minute ago

Name	Host	Level	Rooms	Issues	Last Reading	Active Power (...)	Threshold	Threshold values	Active Power ...	Threshold
1 State of charge rooftop battery	Site	ROOF	CISTERN 001		1 minute ago					
2 EM 101 Active Power	Site	ROOF	CISTERN 001		1 minute ago	37712			37712	
3 PV 2 Active Power	PAE - Photov...	ROOF			1 minute ago		7			
4 PV 1 Active Power	PAE - Photov...	ROOF			1 minute ago		7			
5 EM 101 Frequency	PAE - Gen...	Level 6			just now					

Tandem shows building on SkyCentrics DREAM™



Live Data in 3D gives you instant visibility

Monday, February 2, 2026 9:41 AM PST Live

Grid Meter

Battery State of Charge

Solar Generation

Whole Building Power

T.O. ROOF CURB

LEVEL 2

LEVEL 1

LEVEL 0

Organization

Projects

Documents

Integrations

Programs

Installers

Recent Projects

- PAE Living Building – Digital ...
 - Buildings
 - Assets
 - Reports
 - Collaborators
- DHW
 - Buildings
 - Assets
 - Reports
 - Collaborators
- PAE Living Building – Simple
 - Buildings
 - Assets
 - Reports
 - Collaborators

+ Asset + Building

Noon on Sunny Day – Building at FULL POWER

The screenshot displays a digital simulation of a building's energy system. The main view is a 3D architectural rendering of a multi-story building with a flat roof covered in solar panels. A yellow square with the number '2' is placed on the roof, and a yellow arrow points from the 'Grid Meter' label to it. Another yellow arrow points from 'Battery State of Charge' to the same area. A third yellow arrow points from 'Solar Generation' to the solar panels. A red arrow points from 'Whole Building Power' to the building's facade. The roof edge is labeled 'T.O. ROOF CURB'. The building's levels are labeled 'Level 0', 'LEVEL 1', and 'Level 2'. The interface includes a sidebar on the left with navigation options like 'Projects', 'Documents', and 'Recent Projects'. The top of the browser shows the URL 'dream.skycentrics.com/projects/s/7dd88ac8-7ae4-4755-9533-b2f9dce26' and various browser controls.

Noon on Sunny Day – Solar Full Generation

The screenshot displays a 3D architectural model of a multi-story building with a solar panel array on its roof. The solar panels are highlighted in green. A yellow arrow labeled 'Grid Meter' points to a yellow meter icon on the roof. Another yellow arrow labeled 'Battery State of Charge' points to a yellow battery icon. A green arrow labeled 'Solar Generation' points to the solar panel array. A red arrow labeled 'Whole Building Power' points to the building's facade. The roof edge is labeled 'T.O. ROOF CURB'. The building levels are labeled 'Level 0', 'LEVEL 1', and 'Level 2'. The interface includes a sidebar with navigation options like 'Projects', 'Documents', and 'Reports'. The top of the browser shows the URL 'dream.skycentrics.com/projects/s/7dd88ac8-7ae4-4755-9533-b2f9dce26' and various browser controls.

Noon on Sunny Day – Battery 50% Depleted

Grid Meter

Battery State of Charge (50%)

Solar Generation

Whole Building Power

T.O. ROOF CURB

Level 2

LEVEL 1

Level 0

Organization

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Documents

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Recent Projects

PAE Living Building – Digital ...

Buildings

Assets

Reports

Collaborators

DHW

Buildings

Assets

Reports

Collaborators

PAE Living Building – Simple

Buildings

Assets

Reports

Collaborators

Monday, February 2, 2026 9:41 AM PST Live

+ Asset + Building

Recipes Health Wedding Caroline & Tristan... Kids Request Rejected Computer Ideas Smart Grid 1-Wire Bike Routes Physics Download Adobe... The Best \$1,000 P... Sport Science: Kla... WORK TAXES All Bookmarks

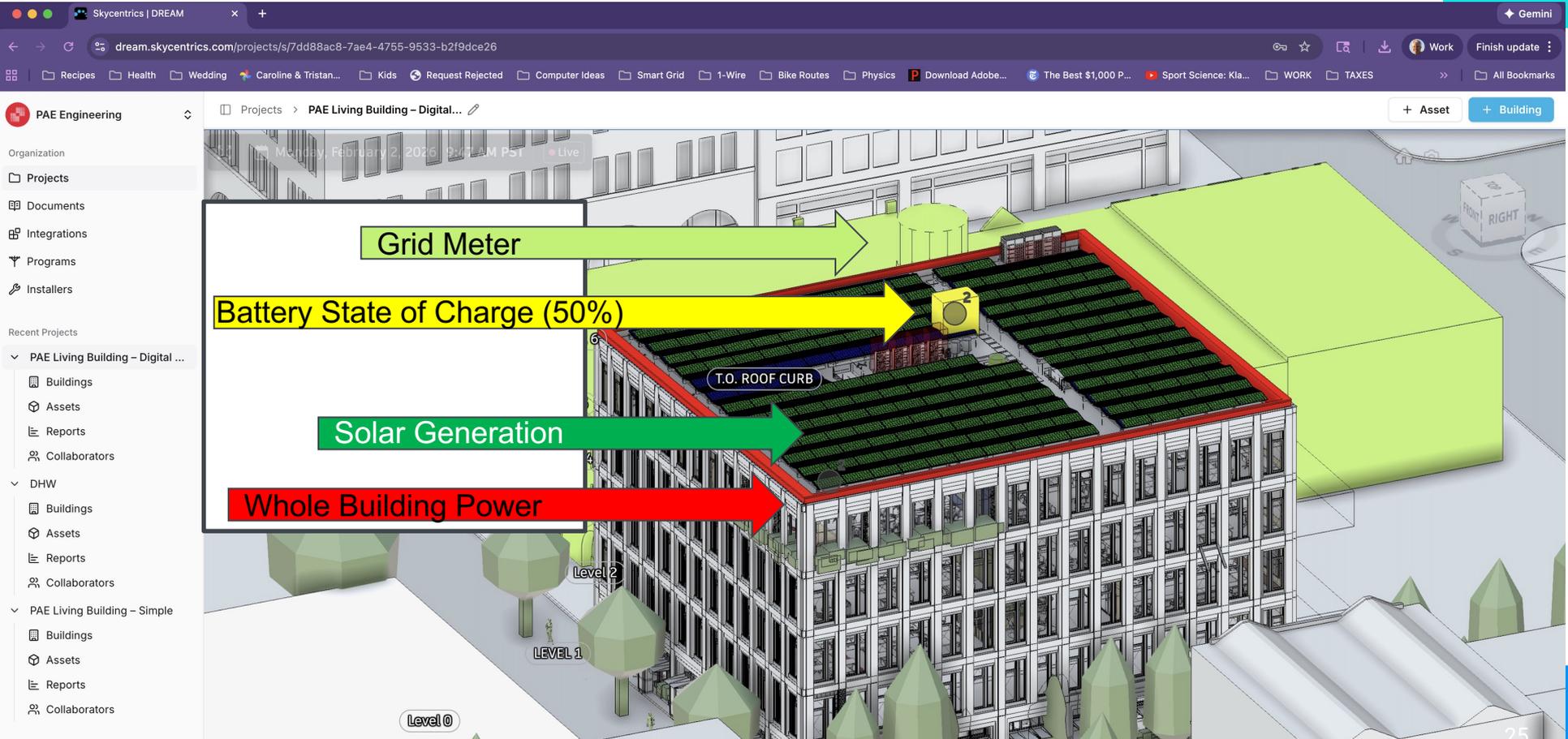
Skycentrics | DREAM

dream.skycentrics.com/projects/s/7dd88ac8-7ae4-4755-9533-b2f9dce26

Finish update

Gemini

Grid Meter Low Power Draw



Back on Tandem – Scrub Timeline to ‘see your day’

PAE Living Building Facility

Search PAE Living Building Facility

Sunday, February 1, 2026 2:19 PM PST

Live

Grid Meter

Battery State of Charge (50%)

Solar Generation

Whole Building Power

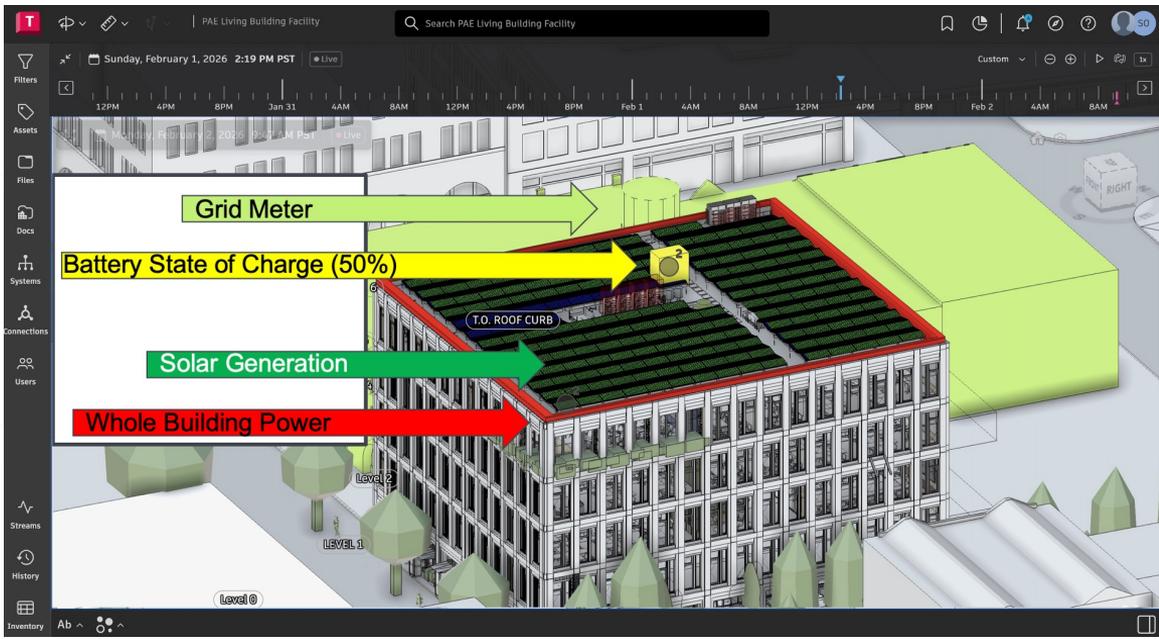
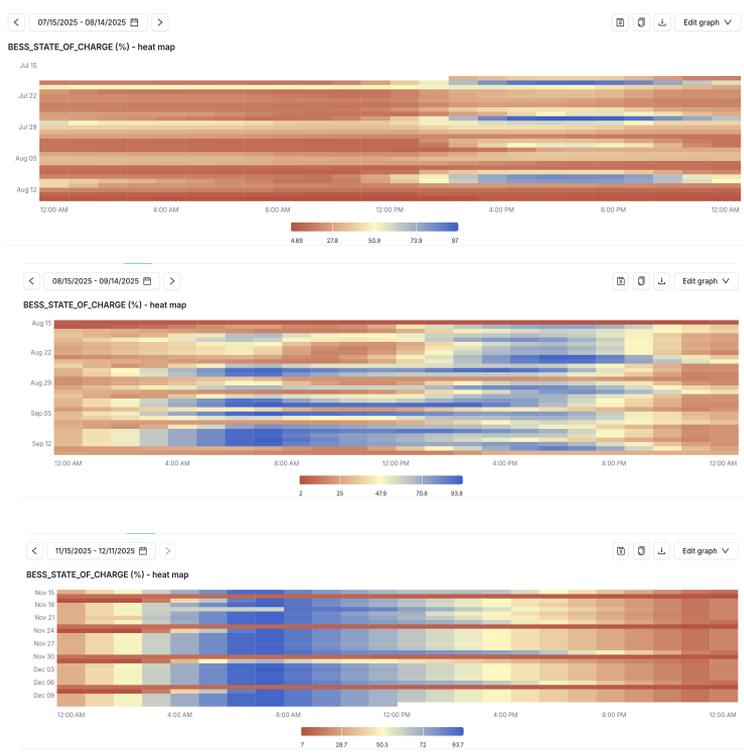
T.O. ROOF CURB

Level 2

LEVEL 1

Level 0

ROI – Are your assets delivering promised value?



Easy Automated Schedulable Reporting with MDX Markdown Language

- SkyCentrics enables easy automated schedulable reporting with embedded 'live updated' graphs directly to any email box.
- Easy to use templates get you started - using [MDX](#) (a blend of Markdown and Javascript MXL)
- Easy editing, saving and duplication across subsequent installations
- Multiple graph types, time periods, and styles
- Use MDX aggregation logic to perform **multi-dimensional analysis** across systems and different unit values

Edit Report | BESS Weekly Performance Report
Publish

Data Points 1 Active

Select points to include in your dashboard

GROUP BY Building Asset Type

Q Search points...

- BESS_PCS_CHARGE_DI... 0.0 kVAR
- BESS_PCS_CHARGE_DIS... 13.4 kWh
- BESS_PCS_STATE 1.0 n/a
- BESS_WARNINGS 0.0 n/a
- BESS_REACTIVE_POWE... 0.0 kVAR
- BESS_STATE_OF_CHAR... 55.0 %
- BESS_SYSTEM_AVERAGE... 17.0 A
- BESS_SYSTEM_AVERAG... 498.7 V
- BESS_SYSTEM_STATE 11.0 n/a
- Digital_Lumens_Device... 0.0 n/a
- Digital_Lumens_Devis... 479.5 luxes
- Digital_Lumens_Devis... 198.5 luxes
- Digital_Lumens_Device... 359.9 lux
- Digital_Lumens_Device_AV... 0.0 %
- Digital_Lumens_Device_A... 88.1 %

Selected for data fetching

```

1  ## * BESS Weekly Performance Report
2  **Portland, OR - Battery Health Status**
3
4  ---
5
6  ### Last 5 Weekdays Performance
7  **Report Period:** ((() => {
8    const today = new Date();
9    const dayOfWeek = today.getDay();
10   const daysToFriday = dayOfWeek === 0 ? 2 : dayOfWeek === 6 ? 1 :
11   dayOfWeek + 2;
12   const friday = new Date(today);
13   friday.setDate(today.getDate() - daysToFriday);
14   const monday = new Date(friday);
15   monday.setDate(friday.getDate() - 4);
16   return monday.toLocaleDateString('en-US', { month: 'short', day:
17   'numeric' });
18 })} - ((() => {
19   const today = new Date();
20   const dayOfWeek = today.getDay();
21   const daysToFriday = dayOfWeek === 0 ? 2 : dayOfWeek === 6 ? 1 :
22   dayOfWeek + 2;
23   const friday = new Date(today);
24   friday.setDate(today.getDate() - daysToFriday);
25   return friday.toLocaleDateString('en-US', { month: 'short', day:
26   'numeric' });
27 })} | **Status:** ✓ System Operational
28
29 <Heatmap
30 id=BESS_STATE_OF_CHARGE
31 "U2t5Qm940BwZkH5Y7JhLWZL0DYfNDQzYS04ZDYzLT0xZG3kZaJmJfK5MDpCRWXTX
32 IN0QVRF9X0GxN1QVJHRQ=="
33 start=({() => {
34   const today = new Date();
35   const dayOfWeek = today.getDay();
36   const daysToFriday = dayOfWeek === 0 ? 2 : dayOfWeek === 6 ? 1 :
37   dayOfWeek + 2;
38   const friday = new Date(today);
39   friday.setDate(today.getDate() - daysToFriday);
40   const monday = new Date(friday);
41   monday.setDate(friday.getDate() - 4);
42   return monday.toISOString().split('T')[0] + 'T00:00:00-07:00';

```

Live Preview

BESS Weekly Performance Report

PAE Living Building, Portland

State of charge

This graph tracks the battery's state of charge over five days, from January 6 to January 10, measured midnight to midnight.

Power consumption

Correlating this with the energy meter data, this shows how the batteries are full when the highest peaks happen, right around dawn.

Report Schedule: Automatically generated every Sunday

Shareable: Forward this report to stakeholders as needed

Next Report: Sun, Feb 22, 2026

Report generated on Tue, Feb 17, 2026

28

Reports: Set Sharing and Intervals for Automated Scheduling

- Set permissions based on desired sharing preferences:
 - “Myself”
 - “My Organization”
 - “My Project Team”
 - “Public”
- Select recurrence of report generation (daily, weekly, monthly)
- Select emails of recipients for your report
 - directly to the customer, or
 - internally for approval, addition of details, or diagnostics

Collaboration

Manage who can access this dashboard

ACCESS LEVEL

 **Anyone with a link**

Anyone on the internet with the link can view

 **Collaborators**

Project collaborators from any organization

 **Organization**

Members of your organization

 **Private**

Only you can access

VISIBILITY

 **Discoverable**

Only accessible via direct link

SHARE LINK

<https://dream.skycentrics.com/reports/>

 Copy Link

 Preview

Schedule

Configure when this report is generated and who receives it

RECURRENCE

Frequency

Days of the week

S
 M
 T
 W
 T
 F
 S

Time

:

RECIPIENTS

 **Me**

Send to my account email address

 **Project Collaborators**

Send to all collaborators on this project

 **Specific Email Addresses**

Add individual email addresses

- SkyCentrics' AI analysis tools compare your system's performance to custom-set baselines, historical performance, or performance of similar systems.

Data Points

4 Active

Select points to include in your dashboard

GROUP BY Building Asset Type

Search points...

- ProconAIM2... 1.0 n/a
- ProconAIM2... 100.0 %
- ProconAIM2... 0.0 n/a
- ProconAIM_COP 0.0 C
- ProconAIM_C... 213.0 F
- ProconAIM_E... 116.0 F
- ProconAIM_E... 149.0 F
- ProconAIM_E... 132.0 F
- ProconAIM_E... 149.0 F
- ProconAIM_Ev... 83.0 F
- ProconAIM_H... 0.0 Hz
- ProconAIM_H... 0.0 n/a
- ProconAIM... 33.0 F
- ProconAIM_S... 165.0 F
- ProconAIM_R... 0.0 n/a
- ProconAIM... 99.0 F
- ProconAI... 103.0 F
- ProconAIM... 1.0 n/a
- ProconAIM... 100.0 %
- ProconAIM_T... 136.4 F
- ProconAIM_T... 1.0 n/a
- RECIRC... 361256.0 gal
- STL_INLET_T... 113.1 F
- STL_TAP_OUT... 66.0 F

Selected for data fetching

Points of Interest

Name	Unit	Asset
ProconAIM_WaterInletTemperature	°F	QAHV-1
ProconAIM_WaterOutletTemperature	°F	QAHV-1
ProconAIM_OutdoorAirTemperature	°F	QAHV-1
EnergyMeter_Building_0	W	Veris Meter

Notify me When:

ProconAIM_WaterOutletTemperature **is less than 110 °F** OR **is greater than 170 °F**

QAHV-1 Is Offline For **60 Minutes**

Alert when my QAHV goes offline for more than an hour.
 - Thought for 1h...
 - Updated Notifications list.

What would you like to know?
 Please let me know when the outlet temperature of QAHV 1 goes below 110 degrees, or above 170.

Live Preview

WH Snapshot (1/01/26-2/1/26, 2025)

The following plot illustrates a 30-day period of water heater inlet and outlet temperature.

Default Test Temperature/Power

Resolution: 15min

Summary

A notable dip in outlet temperature was observed on the evening of January 19th, with outlet temperature falling to 118 °F despite stable inlet conditions, suggesting a transient reduction in heating capacity or flow-side disturbance during that period.

Alert history

Last 7 days ×

- Alert status changed to Alarm
2/17/2026 08:25:00 AM
- Alert status changed to OK
2/16/2026 08:23:00 AM
- Alert status changed to Alarm
2/15/2026 08:22:00 AM
- Alert status changed to OK
2/15/2026 06:19:00 AM
- Alert status changed to Alarm
2/13/2026 07:55:00 AM

Add alert

You can add alert rules. You will specify its evaluation frequency in the next step.

Rule 1
TANK_ON_SETPOINT1 - TANK_TEMP > 5



Rule 2
LoadShed_Shed > 0



and

Add rule

Go back

Continue

- Go beyond simple thresholds. Use **complex expressions** (temperature differentials, system state) to ensure your equipment is operating at maximum efficiency.
- Receive **real-time notifications for critical events**, or keep your customers in the loop automatically.
- Comprehensive **alert history** provides a digital paper trail for past alert triggers.

- Document Ingestion: Upload spec sheets of your building equipment and **allow DREAM™ to become an expert in your building in minutes**
- Get updates when points are outside of their manufacturer-specified normal ranges
- Receive guidance on recommended maintenance schedules and optimal runtime settings
- **Scales Across Use Cases:** Support sales, design, estimation, and customer support with the same knowledge base.

Upload Document ✕

*** File**



Click or drag file to this area

PDF, Word, Excel, Images, and other document formats

*** Title**

Categories

Description

Optional description

Cancel
Upload

What is Next? AI Doing the Monitoring

223 – BIM 2 RDF

SkyCentrics MCP Server on DREAM

AI Enhanced BACnet and Modbus Point Discovery

Natural Language Query of all building documents

Natural Language Query Report Creation

REDUCE UTILITY BILLS

- Time of Use Scheduling
- Peak Demand Charge Minimization
- 24 Hour ahead meter prediction

What is Next? AI Doing the Monitoring

223 – BIM 2 RDF

SkyCentrics MCP Server on DREAM

AI Enhanced BACnet and Modbus Point Discovery

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REDUCE UTILITY BILLS

- Time of Use Scheduling
- Peak Demand Charge Minimization
- 24 Hour ahead meter prediction

ECOPORT

openADR 2.0b
CERTIFIED

CTA-2045



Mitsubishi Heat₂O System (QAHV)

- Central System Heat Pump water heater Mitsubishi City Multi and Smart Multi
- Commercial and Residential HVAC VRF



Heat₂O panel with EcoPort Connectivity via SkyBox

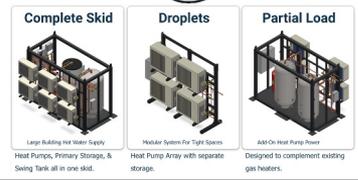


QAHV Central Heat Pump System

SkyBox provides Instant Grid Certification for OEMs



CTA-2045



SkyBox provides demand-response and connectivity for WaterDrop Systems [Droplet, Partial Load, and Complete Skid systems](#), designed for whole-building drop-in heat pump solutions



SkyBox provides the Eco₂ Systems Residential Demand Response (RDR) controller with grid certification for all [residential heat pump water heater products](#) from SANCO₂



SkyBox provides grid certification and cloud-based connectivity solutions for Colmac [WaterHeat](#) product line – Connecting either individual units or entire arrays of Waterheat systems

Capture Utility Incentives or Optimize Energy Use

- Participate in utility programs and receive incentives for grid flexibility or scheduled curtailment
- Import utility Time-of-Use rates and allow SkyCentrics to optimize building energy consumption according to those rates
- Stagger consumption of key energy-consuming systems or integrate battery storage to minimize power spikes and utility demand charges

Create event

Target

Asset: Antonia QAHV

Name

Event name

Event type

Shed

Start time: 01/13/26 04:00 PM

End time: 01/13/26 09:00 PM

Repeating events

S M T W T F S

Ends on: 01/14/2026

Go back Create

PG&E business demand response programs

Peak Day Pricing

- Optional rate
- Offers businesses a discount on regular summer electricity rates
- In exchange, customers pay higher prices during Peak Day Pricing event days

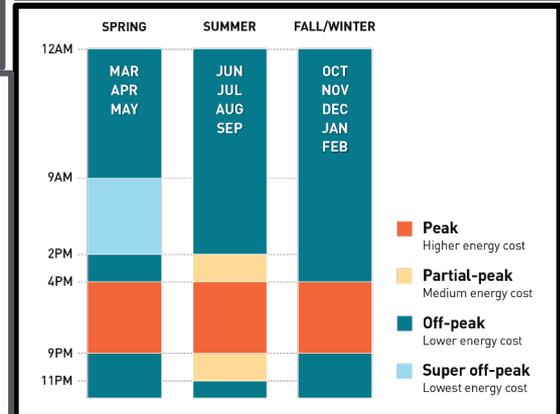
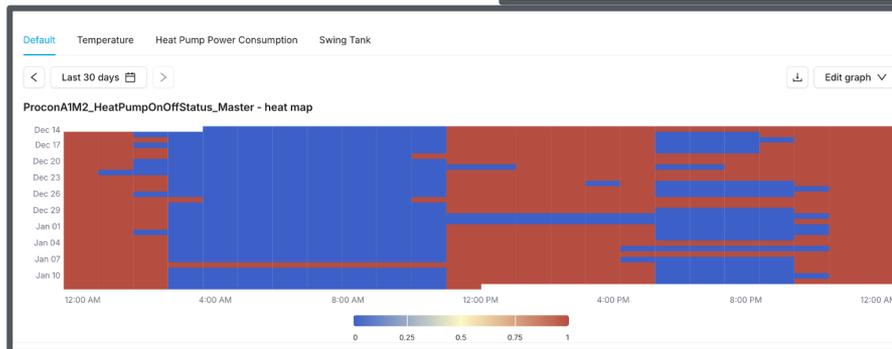
[Explore Peak Day Pricing](#) →

Base Interruptible Program (BIP)

Are you a customer with an average maximum demand of at least 100 kW?

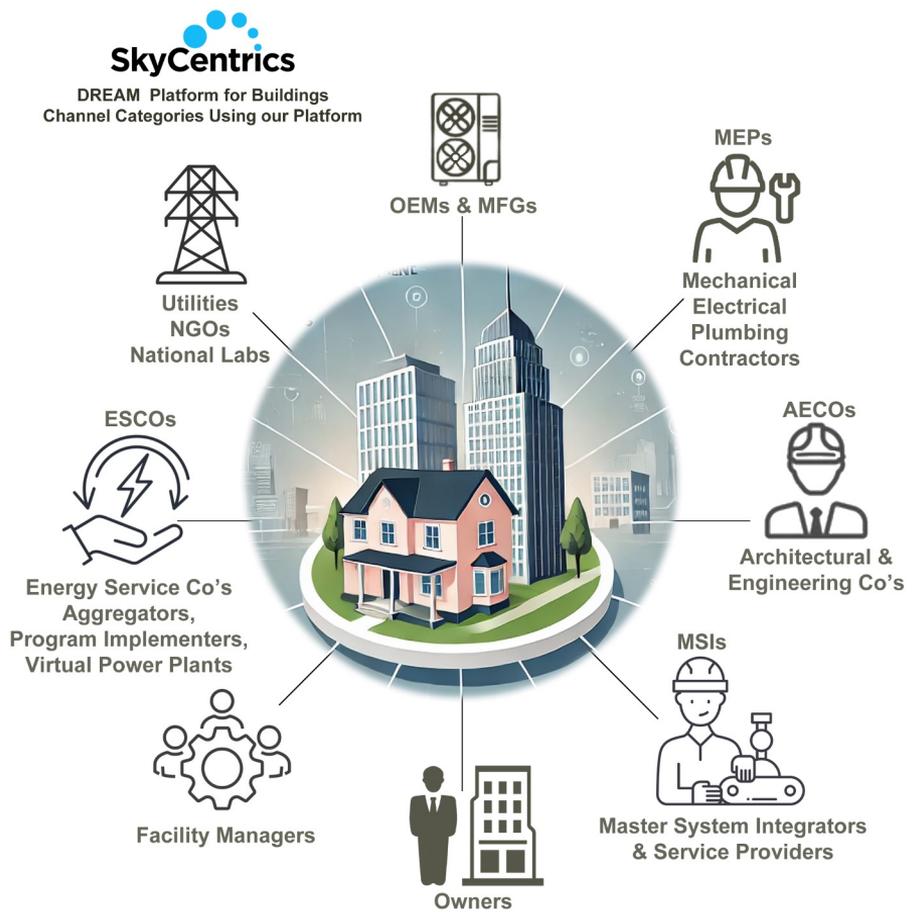
- Earn a monthly incentive for reducing energy consumption to prescribed levels when called upon.

[Enroll directly with PG&E or with a PG&E third-party program](#) →



Who is DREAM™+ SkyBox for?

- Many companies provide services to building developers and owners.
- SkyBox + DREAM™ is a real time data and control system with AI enhanced tools to allow all building stakeholders to supercharge their services and offerings.
- Most importantly, everyone can easily share their reports and collaborate on their solutions.
- Finally, you know you are getting open & interoperable from the beginning - we work with the Linux Foundation, NGO's and National Labs to use open source software and open standards



C4SB Landscape and Active Working Groups



Open Building Stack

Current areas of work include:

- Asset Lifecycle Management
- Open Building Stack
- Network Layer Interoperability
- Cybersecurity
- Digital Twins
- Grid Interactive Buildings
- Vendor-Independent Best Practices, Specifications, KPIs, Benchmarks
- Additional ideas and contributions welcome

OPEN BUILDING APPROACH

WHY AND HOW TO BUY OPEN SOLUTIONS

COMMON DIGITAL INFRASTRUCTURE FOR BUILDINGS

INTEGRATING ACROSS THE LIFECYCLE OF BUILDINGS

COMPOSABLE NEW APPS & SOLUTIONS

MARKET & ECOSYSTEM DEVELOPMENT

WHY AND HOW TO BUY OPEN SOLUTIONS



TxO Scoreboard

Common Data Exchange

Common Environment

Making Field Buses Cloud Native



Will have subgroups

Connection Profiles for IBB

Planning & Design → Construction → Operations → Tenant Experience → CRE Transactions →



AI Analytics & Management

Composable Solutions



AI for Open Buildings

Digital Twins for Open Buildings

Outreach Groups





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A Linux Foundation Project on the PAE Living Building presented to Microgrid Consortium
February 27, 2026

