

# CATALYST

**Welcome to  
EnergyCAP Catalyst!**



# Welcome to EnergyCAP Catalyst!

QR code on badges link to agenda

Lunch in adjacent room

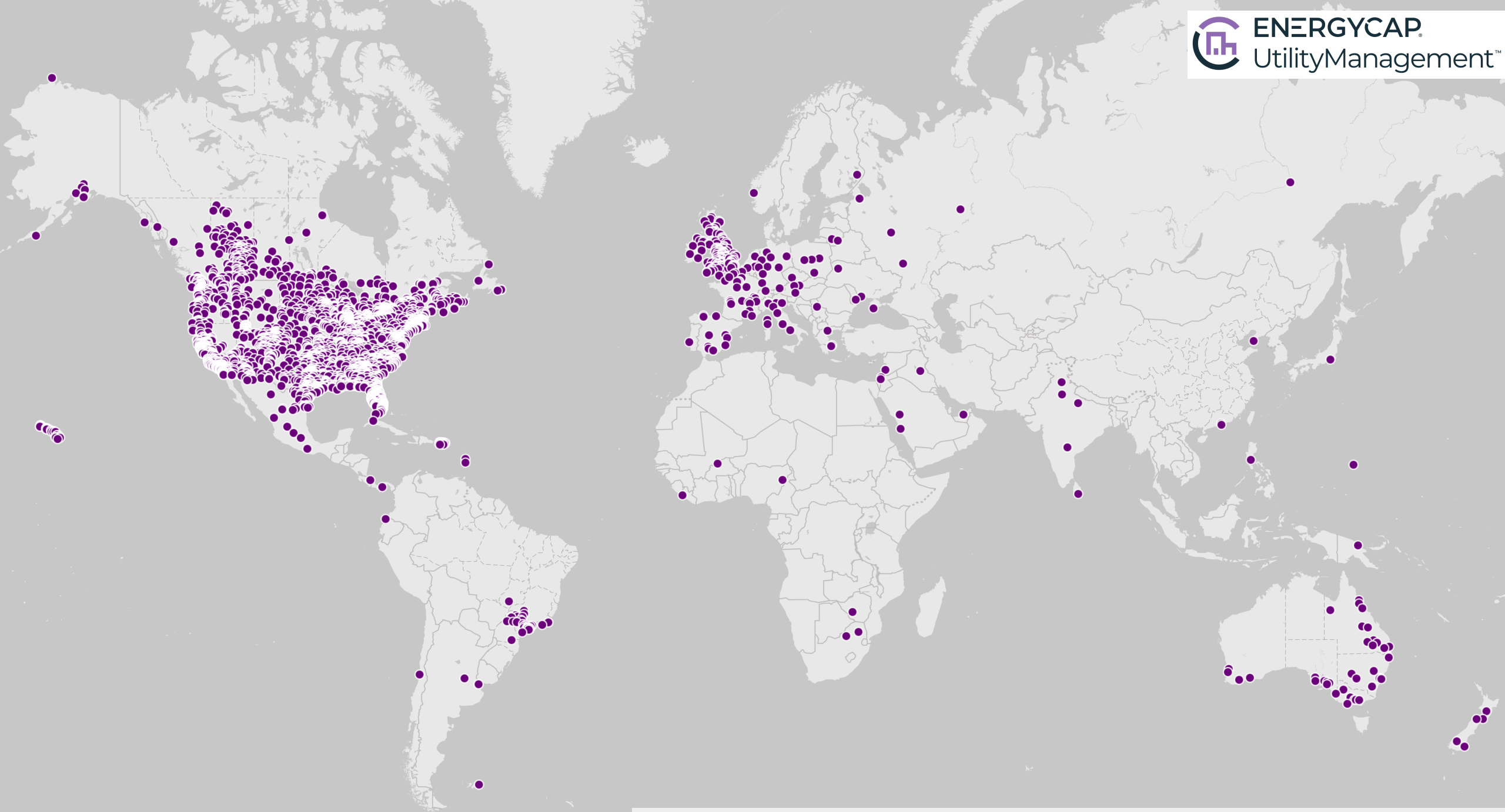
Second presentation room upstairs: Marlborough Suite

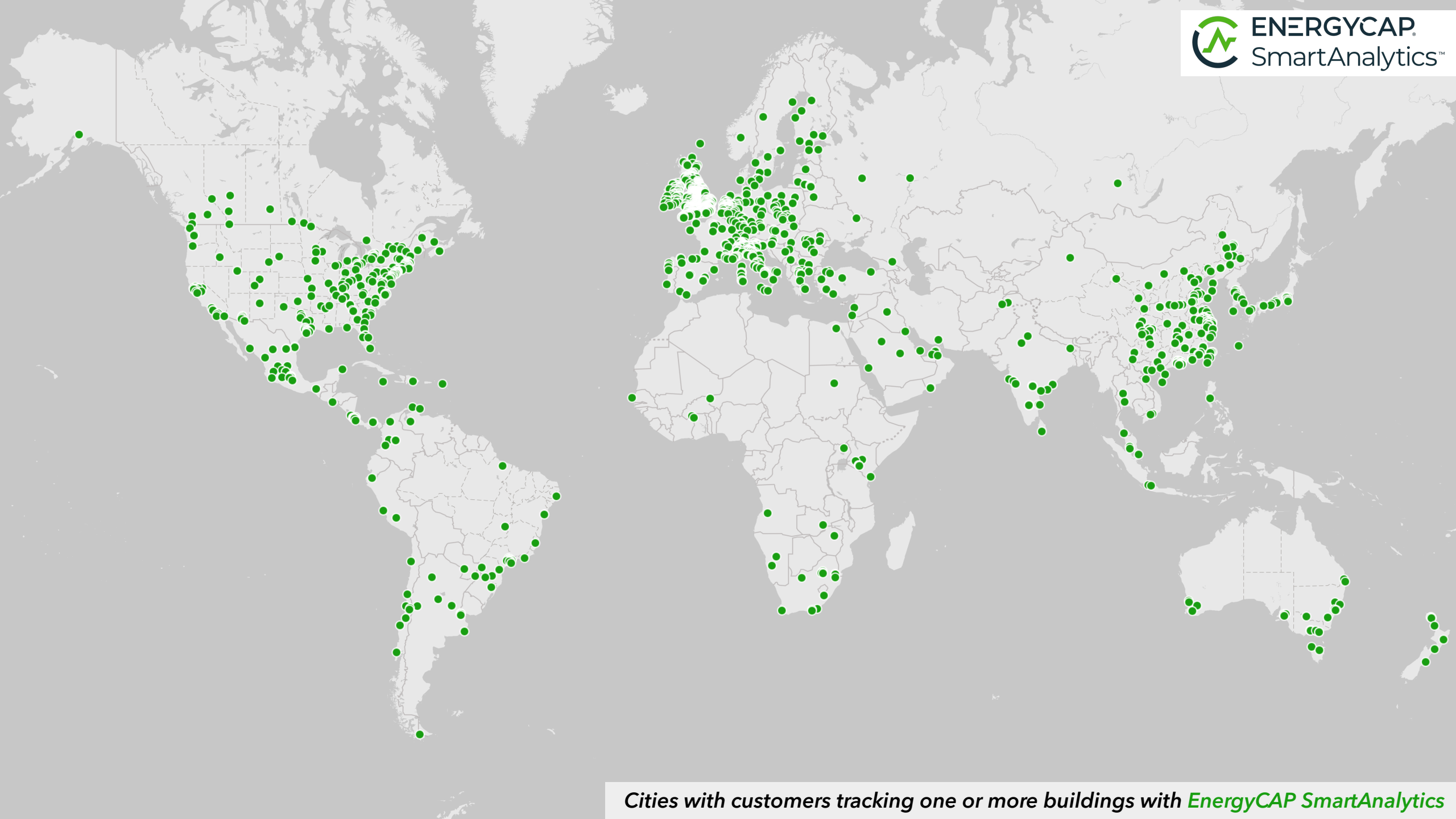
Zoom sessions available to follow along (links in today's email)

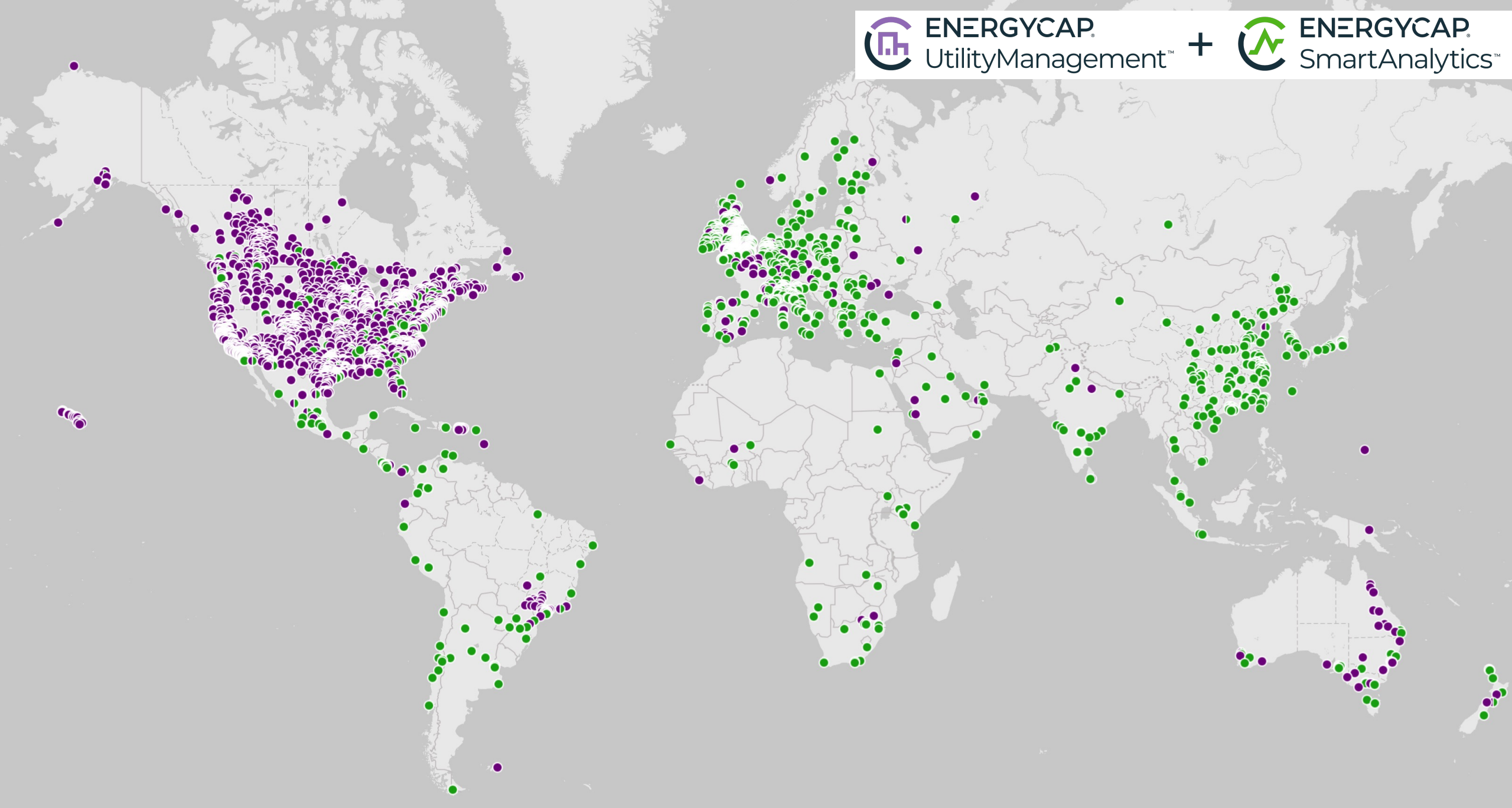
Tomorrow begins at 8:00am

Have fun!









*Cities with customers tracking one or more buildings with EnergyCAP **SmartAnalytics** and/or **UtilityManagement***

# CATALYST

## What's new with EnergyCAP?



**David Ulmer**

Chief Product & Technology Officer  
EnergyCAP



**A little about me...**





**"Hello" from the Ulmer Crew across the pond!**





# Agenda

- The EnergyCAP Story
- EnergyCAP's Energy & Sustainability ERP
- Continued SmartAnalytics Innovation
- Going Beyond SmartAnalytics
- EnergyCAP Platform & Services
- Making the Most of Your Catalyst Experience

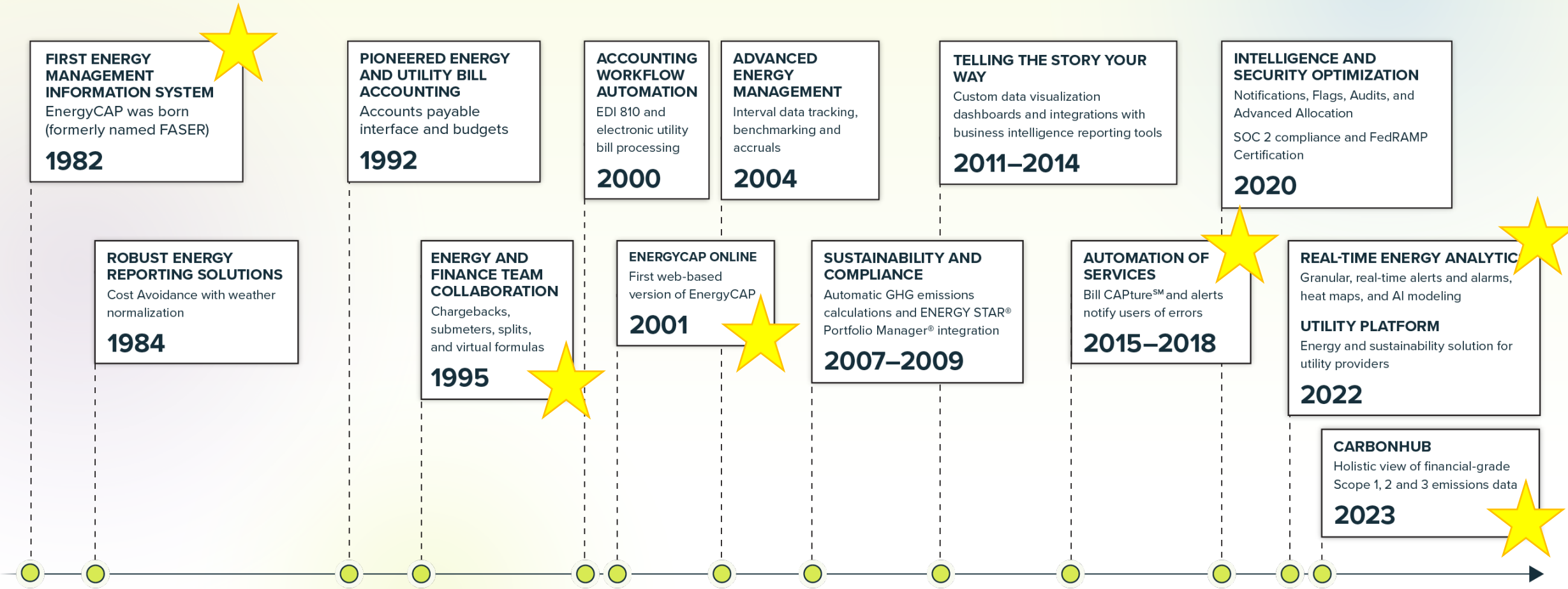


# The EnergyCAP Story

## Steve Heinz – founder of EnergyCAP



# Over 40+ years of innovation and leadership



# Diverse and dedicated client base

## Government

### City



### State/Providence



### Federal



### County/Federal



## Education

### Public School Districts



### Public Higher Education/University Systems



### Private Education



## Utility Companies



## Commercial

### General commercial and retail



### Ind/manufacturing



### Healthcare



### Property Management/Real estate



### Energy services/consultants



### Transportation





# EnergyCAP Catalyst Conferences

**LPO Financing Programs**

Project Type	Loan Program	Loan Terms
Integrative Clean Energy	1703 ICE	Loan Guarantees
Advanced Transportation	ACE & ATAP	Loan Guarantees (Deployment), Direct Loans (Manufacturing)
Trillium Energy	TELOP	Direct Loans & Partial Loan Guarantees
Energy Infrastructure Development	1705 EID	Loan Guarantees
CO <sub>2</sub> Transportation Infrastructure	CO <sub>2</sub> IT	Direct Loans

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**The EnergyCAP Team**





# **EnergyCAP's Energy & Sustainability ERP**



# **Energy and Sustainability ERP** // The single source of truth

Get instant access to validated, actionable data you can trust to better manage resource consumption, reduce your carbon footprint, reach net-zero, and drive massive savings.

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## Real-time energy and sustainability analytics

*Dive deep. Respond quickly.*

---

Dive deep into real-time performance of assets, devices, and sensors. Make quick, data-driven decisions for high-performance, net-zero buildings.

### Customer Data Type:

Time-Series/Interval Energy

### Persona:

Energy/Facilities

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## Portfolio-level energy and sustainability reporting

*Manage and see it all.*

Get accurate and reliable energy and utility data across your entire portfolio and streamline energy and accounting workflows.

**Customer Data Type:**  
Utilities/Bill/Resources

**Persona:**  
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## Financial-grade greenhouse gas accounting

*Target and track emissions.*

An advanced, holistic view of financial-grade emissions data across your business with automatically applied factors to meet your ESG reporting needs.

### Customer Data Type:

GHG activities

### Persona:

Sustainability



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**CAPture Services:** Bill CAPture, Bill Processing/Managed Services

# **Continued SmartAnalytics Innovation**



# EnergyCAP SmartAnalytics // Real-time energy and sustainability analytics



## Capture

Capture real-time data from virtually any source and type of device.

Hierarchy

Groups

▼ Science Center

Air quality

Air handler

Boiler

Water

Chiller

Production output (generic)

**Pump**

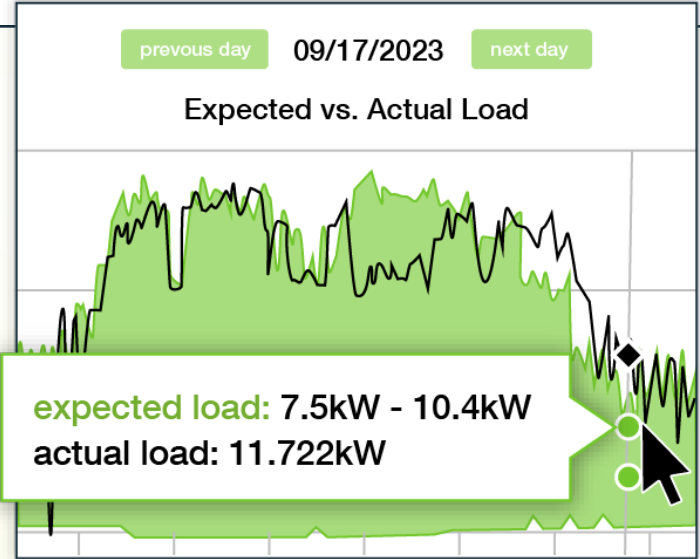
Solar

EV charger

Daily visitors

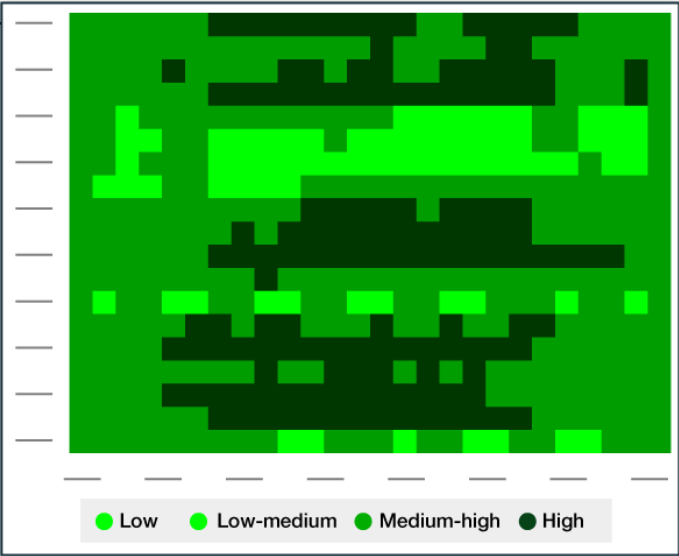
## Monitor

Monitor data quality, detect outliers, and receive alerts and alarms.



## Analyze

Access robust analysis and reporting functionality.























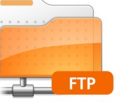








# EnergyCAP SmartAnalytics // Continue to expand connectivity options

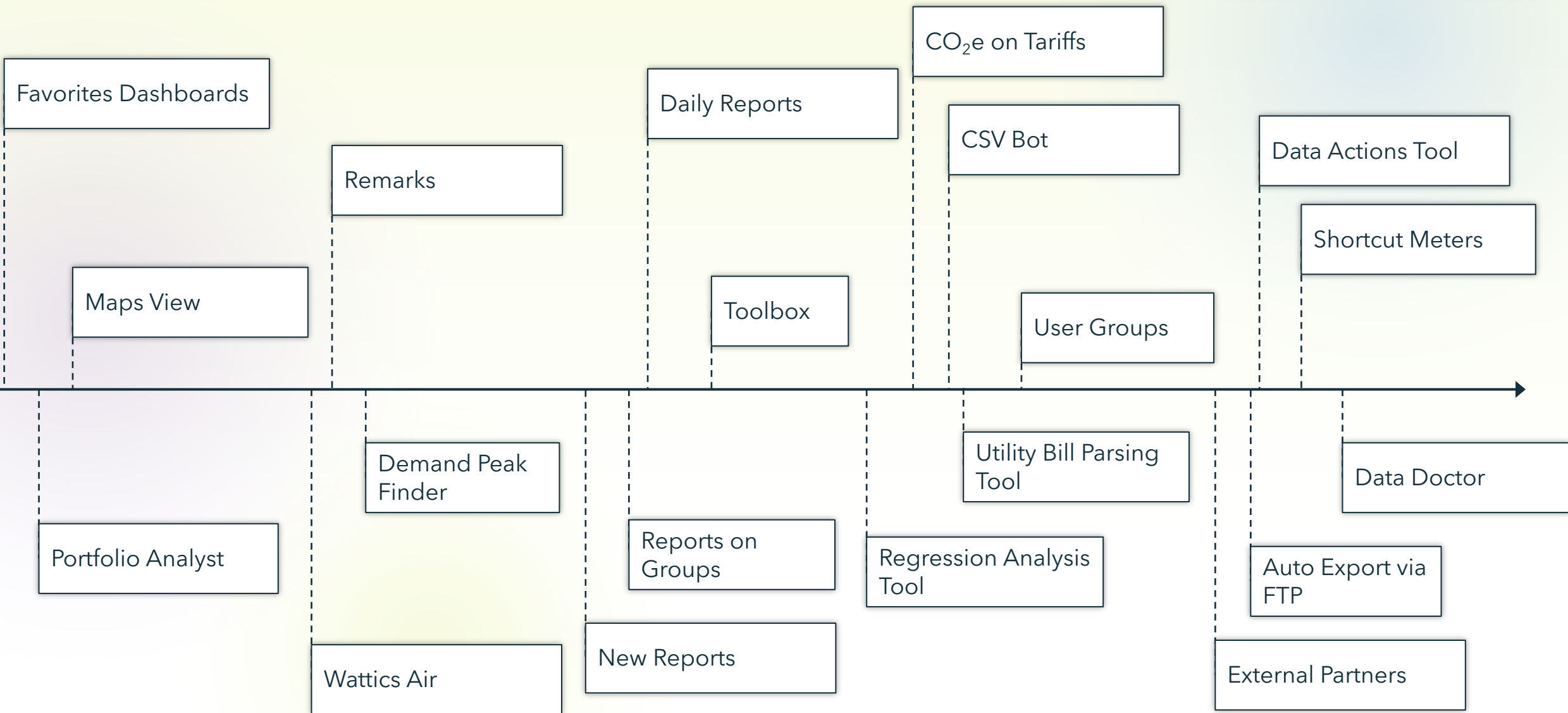
## Data Integration Formats

- API
- Data systems
- Files
- Gateways
- Meters
- Sensors
- Solar and PV
- Third-Party Integrations

## Connected devices and systems

 <p>5-step guide to install and connect your Wattwatchers device to Wattics energy management software</p> <p>THIRD-PARTY INTEGRATIONS</p>	 <p>Accuenergy AcuLink 710 via HTTP</p> <p>GATEWAYS</p>	 <p>Accuenergy AcuREV20XX Meters via HTTP</p> <p>METERS</p>	 <p>Connect your Elvaco CMe3100 gateway to Wattics energy and air analytics software</p> <p>GATEWAYS</p>	 <p>Connect your EpiSensor gateway and sensors to Wattics</p> <p>THIRD-PARTY INTEGRATIONS</p>	 <p>Connect your Schneider Com'X Gateway to Wattics via API</p> <p>GATEWAYS</p>	 <p>Plateforme ENGIE</p> <p>DATA SYSTEMS</p>	 <p>Questionnaire: Determining your metering needs and project environment</p> <p>METERS</p>	 <p>Rainforest Eagle Gateway via HTTPS</p> <p>GATEWAYS</p>	 <p>Use your Accuenergy AcuRev 2020 or Acuvim II meter as a gateway for pulse capable meters</p> <p>METERS</p>
 <p>Accuenergy AcuVIM-II via HTTP</p> <p>METERS</p>	 <p>Analytics REST API</p> <p>API</p>	 <p>Aquametro CONTOIL VZO 4 / 8 via Octopus Gateway</p> <p>METERS</p>	 <p>Carlo Gavazzi EM21 via Octopus Gateway</p> <p>METERS</p>	 <p>Carlo Gavazzi VMU-C EM via FTP</p> <p>GATEWAYS</p>	 <p>Connect your building devices to Wattics via MQTT</p> <p>THIRD-PARTY INTEGRATIONS</p>	 <p>Landis Gyr ULTRAHEAT T550 (UC50) via Octopus Gateway</p> <p>METERS</p>	 <p>Northern Design Rali 350 Meters via Octopus Gateway</p> <p>METERS</p>	 <p>Omron KM-NI-FLK via Octopus Gateway</p> <p>METERS</p>	 <p>SolarEdge API</p> <p>THIRD-PARTY INTEGRATIONS</p>
 <p>Connect your Shelly 3EM 3-phase meter to the Wattics energy management dashboard</p> <p>METERS</p>	 <p>Eaton PXM 2000 Meters via Octopus Gateway</p> <p>METERS</p>	 <p>eGauge via HTTP</p> <p>METERS</p>	 <p>How to connect your Wattsense box to Wattics cloud based energy analytics software</p> <p>GATEWAYS</p>	 <p>Integrate your Kaiterra Air Quality sensors with Wattics energy management [How to guide]</p> <p>SENSORS</p>	 <p>Integrate your Snappee device with Wattics Energy Management Software</p> <p>THIRD-PARTY INTEGRATIONS</p>	 <p>REST API - Smart Meter Energy Data API</p> <p>API</p>	 <p>Schneider PowerLogic EX300 Gateway via FTP</p> <p>GATEWAYS</p>	 <p>Schneider PowerLogic PM8000 meter via Obvius AcquiSuite EMB A8810 Gateway</p> <p>METERS</p>	 <p>Upload your data in CSV with data uploader in Wattics dashboard</p> <p>FILES</p>
 <p>EIG Nexus 1500 Meter via Obvius AcquiSuite EMB A8810 Gateway</p> <p>METERS</p>	 <p>Get your energy data to Wattics via FTP</p> <p>FILES</p>	 <p>GreenButton XML</p> <p>FILES</p>	 <p>Iskraemeco Mx382 GPRS via HES</p> <p>METERS</p>	 <p>Itron Gas Volume Converter CORUS (PTZ) via Octopus Gateway</p> <p>METERS</p>	 <p>Klik 22 Electrical Meters via Octopus Gateway</p> <p>METERS</p>	 <p>Schneider TAC Xenta 411 via Octopus Gateway</p> <p>GATEWAYS</p>	 <p>Send your data to Wattics effortlessly with email parser BOT</p> <p>FILES</p>	 <p>Socomec Diris G via FTP</p> <p>GATEWAYS</p>	 <p>Step-by-step-guide: How to connect your Wattics energy management dashboard to Arc green building scoring platform</p> <p>THIRD-PARTY INTEGRATIONS</p>

# SmartAnalytics continues to evolve and improve



## Continuing to advance SmartAnalytics

- Improved bulk data setup/management
- Historic data corrections
- Improved data import performance – 8x faster
- Additional data integrations
- Single Sign-On (SSO)
- **Significant investments in infrastructure and performance in 2024**

# **Feature Highlight: Data Doctor**

# Data Doctor // Intelligent missing data backfill

- Select individual data points to use Sentinel model to backfill missing data
- Backfill gaps of up to four weeks
- Uses historic performance to estimate load shape

The screenshot displays the 'Admin' tab of the Data Doctor interface. On the left, a tree view shows the hierarchy: 'Best Resorts Hotels' > 'Alpha Hotel' > 'Bar' (selected). The 'Bar' item is highlighted with a grey bar and a lightning bolt icon. On the right, the configuration panel for the selected item is shown. It includes fields for 'Reading \*' (set to 'Cumulative'), 'Real Meter?' (set to 'Yes'), 'Parameter Option \*' (set to 'Multi-Value Point'), 'Icon \*' (set to a lightning bolt), and 'Icon Color' (set to orange). Under 'Advanced settings', there are checkboxes for 'Display peak instead of data gap for offline periods longer than 7 days?' (unchecked) and 'Apply absolute values to Active Power readings?' (checked). The 'Category' is set to 'Generic'. A red box highlights the 'Sentinel based backfilling (cumulative meters only)' checkbox, which is currently unchecked. Below this are input fields for 'Maximum meter value' and 'Rollover percentage', both with question mark icons.

Dashboard Data **Admin** Embedded pages

Q Show List Users X Delete

Best Resorts Hotels

Alpha Hotel

- Air Quality
- Avoided CO2
- Bar**
- Conference Area
- Floor 1
- Floor 2
- Floor 3
- HDD Alpha Hotel
- Landlord Area
- Lift 1
- MAIN
- MCC 1
- MCC 2

Reading \* Cumulative ?

Real Meter? Yes

Parameter Option \* Multi-Value Point ?

Icon \* ⚡ ✓

Icon Color

Advanced settings (leave default options if unsure)

Display peak instead of data gap for offline periods longer than 7 days? ☐

Apply absolute values to Active Power readings? ☒

Category Generic ▾

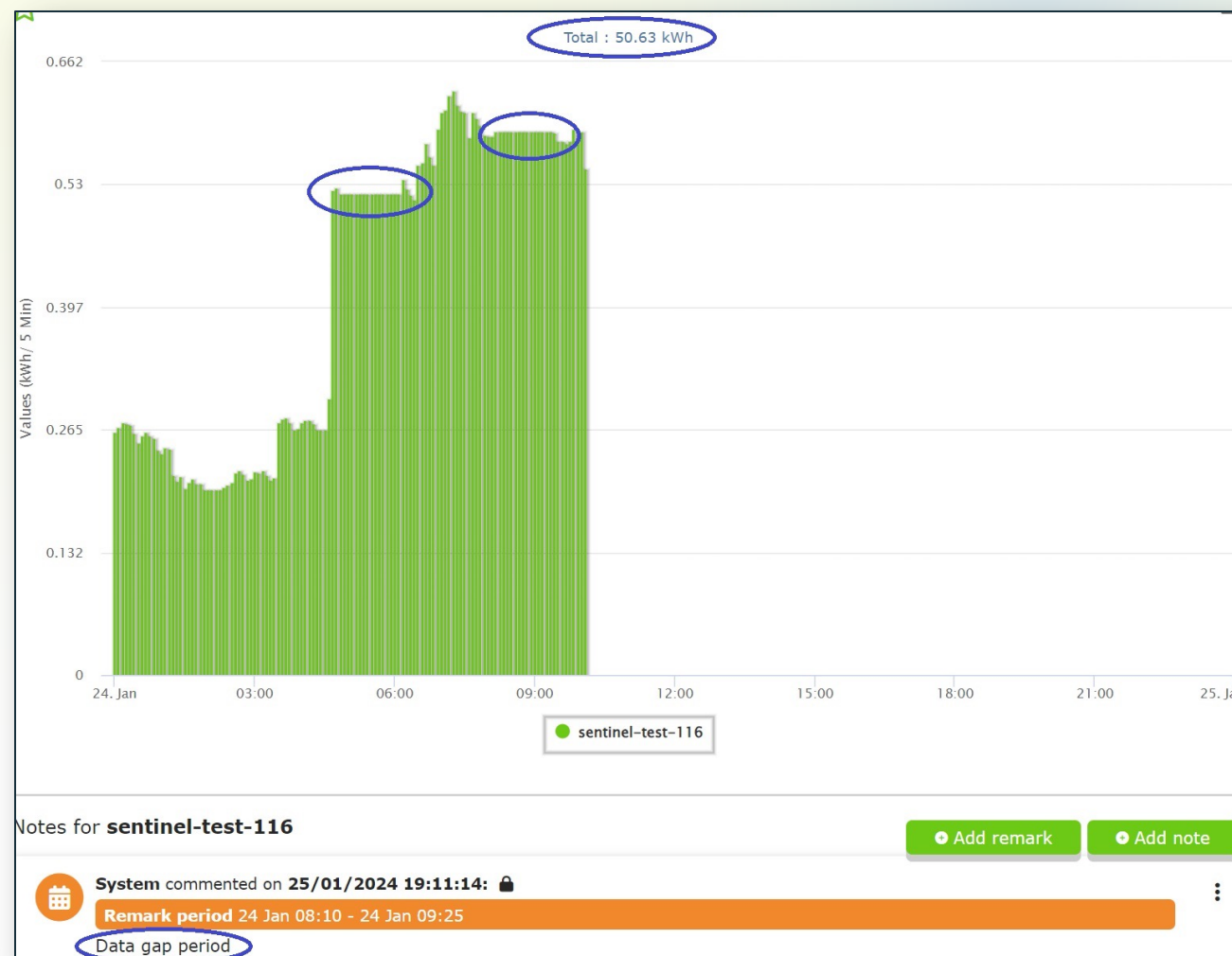
**Sentinel based backfilling (cumulative meters only)** ☐

Maximum meter value  ?

Rollover percentage  ?

# Filling data gaps without Data Doctor

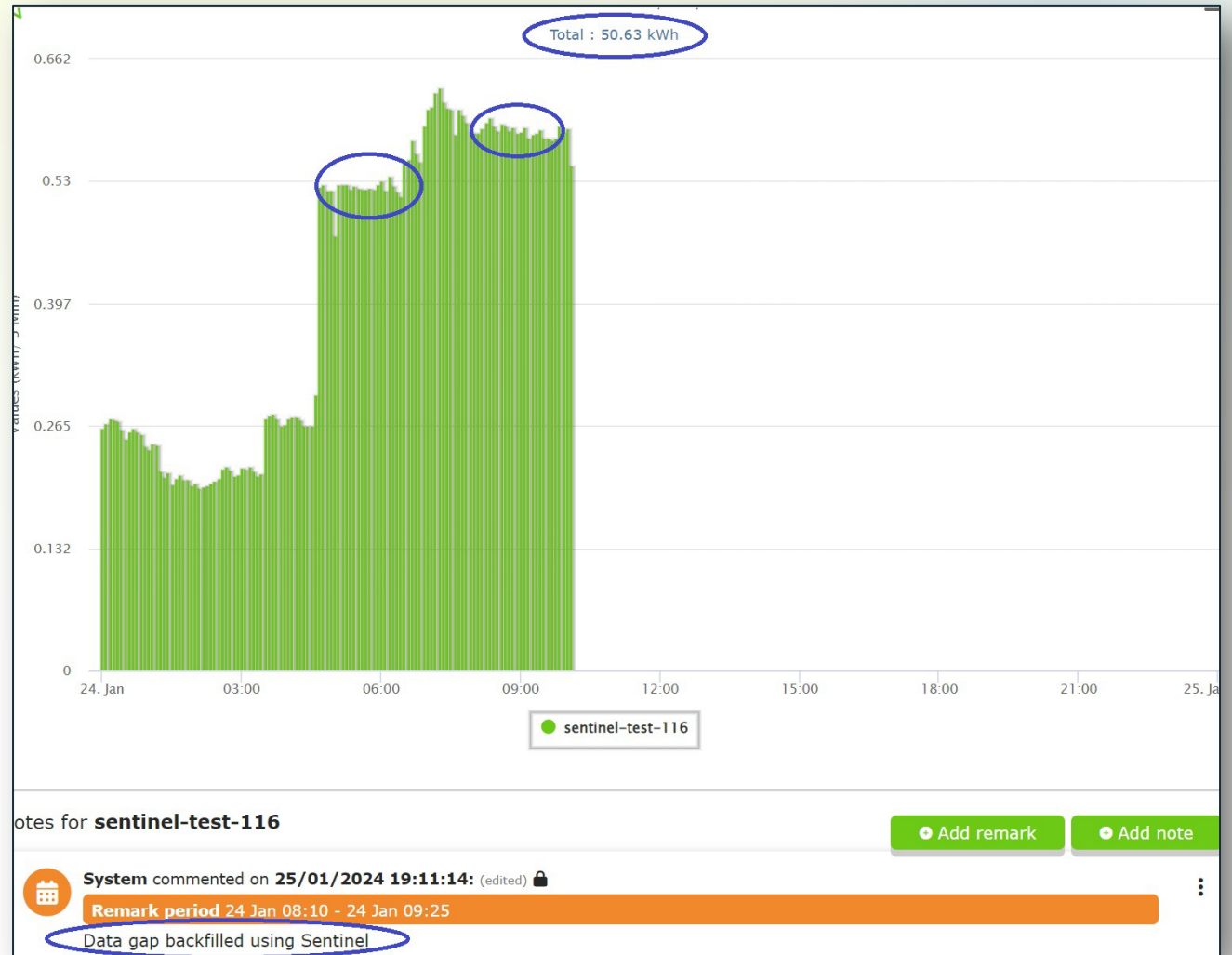
- Uses average for all time periods between offline/online
- Marks data gaps for administrators





# Using Data Doctor to fill gaps

- Triggered by data gaps
- Occurs as a background process
- Replaces “flat” values with values that follow Sentinel Model



## **EnergyCAP SmartAnalytics Catalyst Sessions**

**Hardware Systems and Integrations** – Wednesday AM

**M&V: Using Option B vs. Option C** – Wednesday PM

**Dealing with Data Quality Issues** – Wednesday PM

**EpiSensor Case Study** – Wednesday PM

**Accuenergy Presentation** – Thursday AM

**Your Data Your Way** – Thursday AM

**Chargebacks & Tenant Billing** – Thursday AM

**I Didn't Know It Could Do That!** – Thursday AM

# Going Beyond SmartAnalytics

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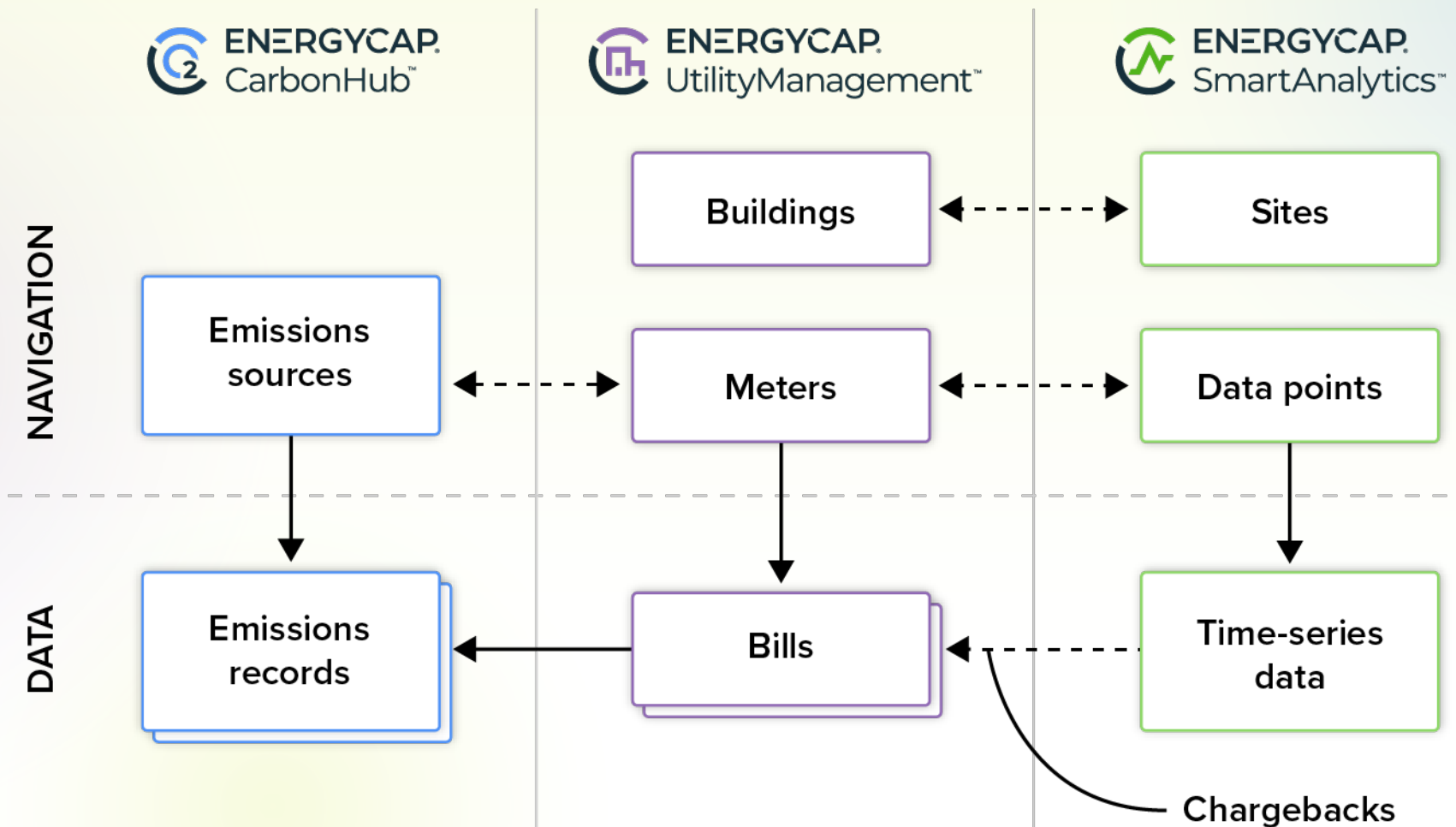
Time-Series/Interval Energy

### Persona:

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**CAPture Services:** Bill CAPture, Bill Processing/Managed Services

# Energy and Sustainability ERP // Even more value together





# **EnergyCAP UtilityManagement™ (EUM) overview**

# EnergyCAP UtilityManagement // Portfolio-level energy and sustainability reporting

## Capture Utility Bill Data

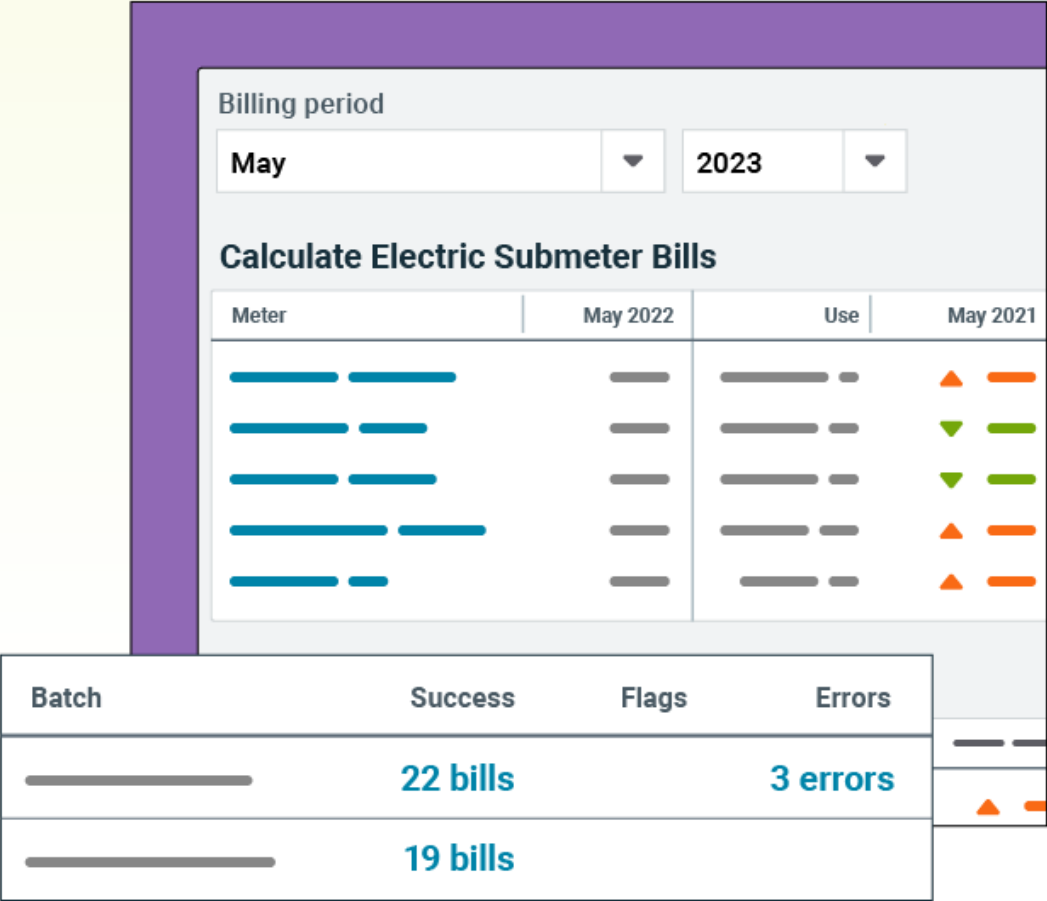
Gain timely access to accurate and reliable energy and sustainability information from monthly utility bills for financial grade energy and sustainability reporting.

- **Utility bill entry and import**
- **Capture, map, and import** via **Bill CAPture<sup>SM</sup>**
- API integrations
- Data formats: paper, PDF, XLS, CSV, TXT, XML, EDI, and more



## Allocate Use and Cost

Recoup energy costs from tenants or departments by allocating costs using submeter data, formulas, and split calculations with the EnergyCAP UtilityManagement **Chargeback feature**. Target and track usage, cost, and carbon from measurable or calculated points. Get as granular as you need with the way you allocate costs and consumption.



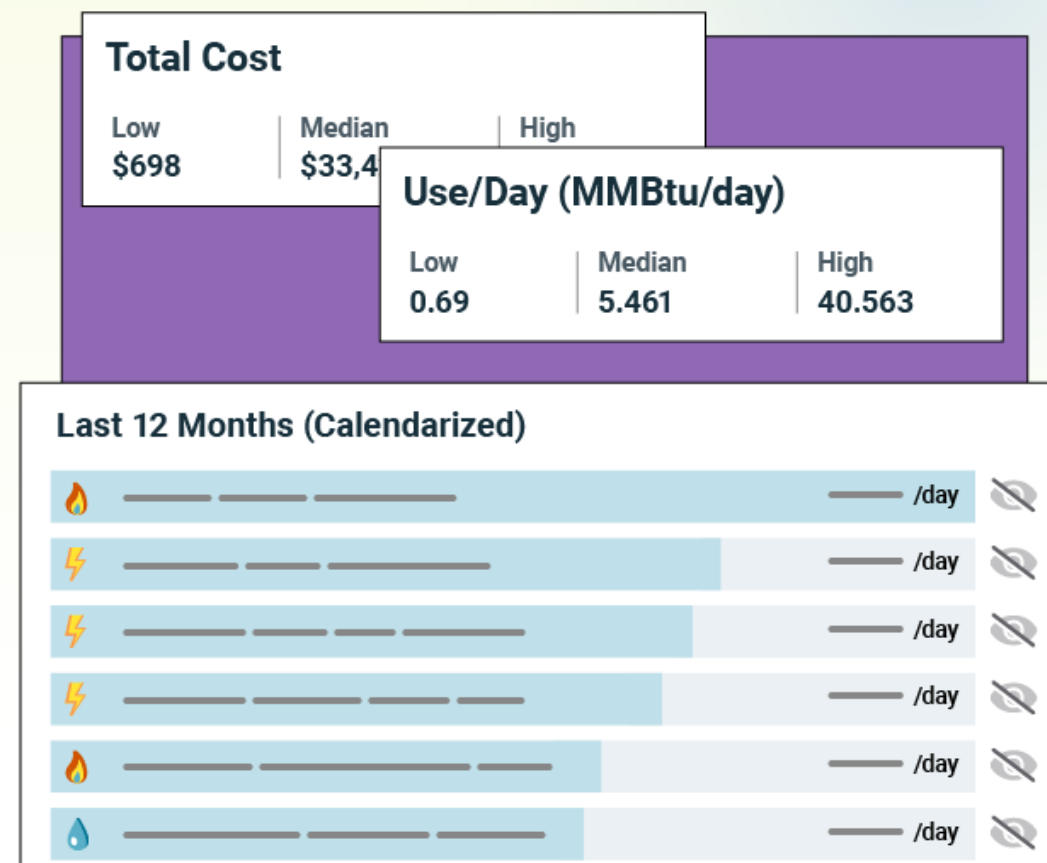


# EnergyCAP UtilityManagement // Portfolio-level energy and sustainability reporting

## Analyze Buildings & Meters

Stop searching for a needle in the haystack. EnergyCAP UtilityManagement automatically identifies outliers in your data and points to the exact place you need to look, so you can save time and focus on more meaningful projects.

- Utility bill auditing
- Energy benchmarking
- Measurement and verification
- Energy use intensity (EUI)

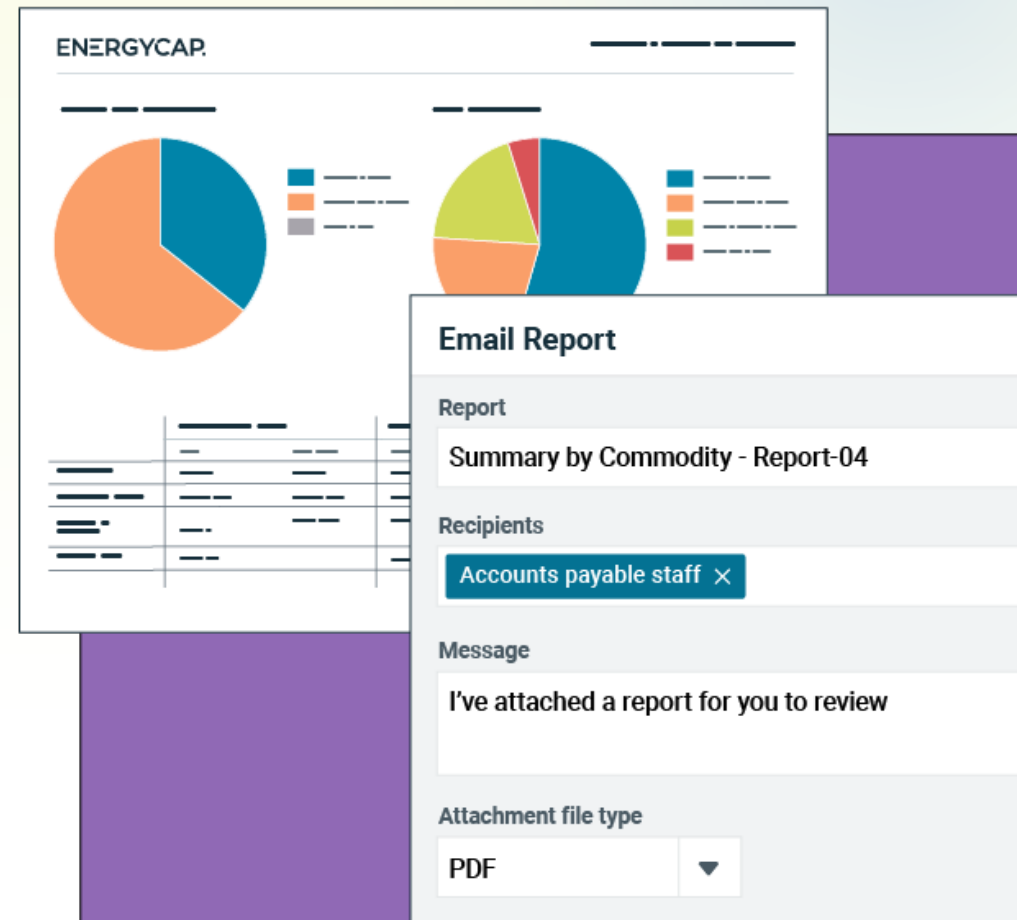


# EnergyCAP UtilityManagement // Portfolio-level energy and sustainability reporting

## Report Across Your Portfolio(s)

Distribute meaningful information to your team members and stakeholders in a streamlined and automated way. With accurate and reliable reports and dashboards, you have proof that your programs are performing like a well-oiled machine.

- Library of standard reports
- **Configurable reports and dashboards**
- **Business intelligence integration**
- **Bill accruals and forecasting**
- **Automated ENERGY STAR® submission**
- Public Dashboards







- + Add
- 🌡️ Thermostat
- 📄 Document
- 🏢 Buildings & Meters
- 📊 Bar Chart
- 📅 Calendar
- 📧 Mail
- ☰ Menu
- 👤 Users
- 📶 Signal
- 🏭 Factory
- ⚙️ Settings

Buildings & Meters

- 🏢 Facilities
- ▼ 🏢 Reporting
  - ▼ 🏢 City of Happy Valley
    - ▼ 🏢 City Buildings
      - > 🏢 City Hall
      - > 🏢 Communications Center
      - > 🏢 Doc Brown Building
      - > 🏢 Emergency Coordination Center
      - > 🏢 Happy Valley Center
      - > 🏢 Records Center and Archives
      - > 🏢 Strickland Building
      - > 🏢 Train Station
      - > 🏢 Twin Pines Mall
    - > 🏢 City Services
    - > 🏢 Communication Towers
    - > 🏢 Parking
    - > 🏢 Police
    - > 🏢 Smart Metered Buildings
    - > 🏢 Sustainability Tracking
  - > 🏢 EnergyCAP, LLC
  - > 🏢 Happy Valley Campus
  - > 🏢 zExcluded

All Buildings and Organizations  
All Meters

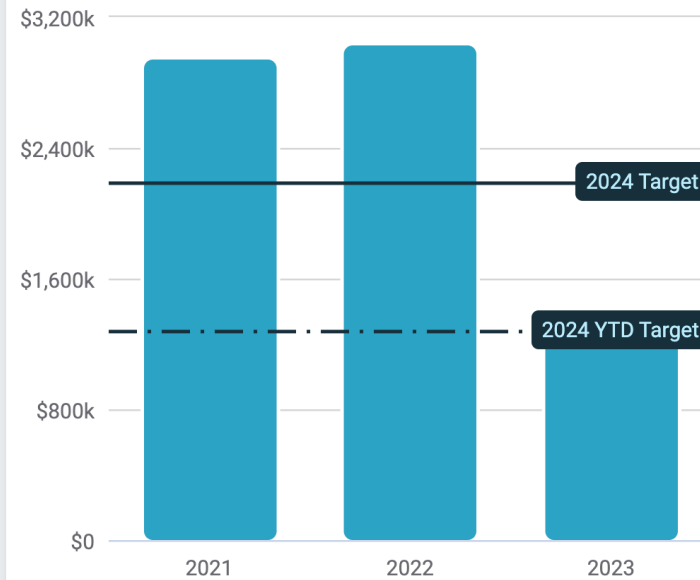
Facilities > Reporting > 🏢 City of Happy Valley [HAPPY\_VALLEY]

Actions ▾ Reports

Billing Period Data | Calendarized Data | Normalized Data | Budgets ✨ | Savings | ENERGY STAR | Energy Projects | Properties | Flags 🚩

Summary | Commodity | Monthly

Total Cost Summary ⓘ



Fiscal Years 2021–2023 (Billing Period Data) ⓘ

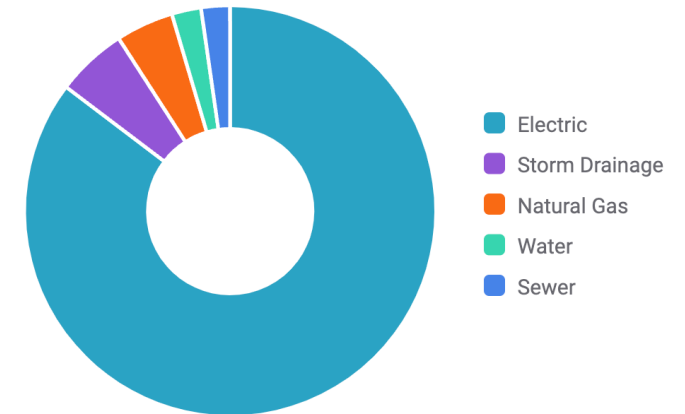
Average Daily Cost ⓘ

Feb 2022–Jan 2023  
**\$6,762.03**

↓ 16.5%

Feb 2021–Jan 2022  
\$8,101.47

12-Month Commodity Cost ⓘ



Feb 2022–Jan 2023 ⓘ

Multi-tiered hierarchy with holistic building reporting



# Benchmark buildings/spaces/meters



## Groups & Benchmarks



### Building Groups

- > Building Type
- > Energy Education Speciali...
- > Magisterial District
- > Place Primary Use Auto-Gr...
- > Pyramid
- ▼ Region
  - Division-Wide
  - Region 1**
  - Region 2
  - Region 3
  - Region 4
  - Region 5
- > Satellite



### Meter Groups

- > Commodity Auto-Group
- > Electric: Main Meter
- > Gas: Main Meter
- > Irrigation
- > Meter Primary Use Auto-G...
- > Trailers & Modulares
- > Utility Vendor

Building Groups > Region > Region 1

Benchmarks

Buildings

Use



Area



High to Low



Filters

### Last 12 Months (Calendarized)

South Lakes High School	65.464 Kbtu/ft <sup>2</sup>	
Madison High School	57.434 Kbtu/ft <sup>2</sup>	
Hutchison Elementary School	54.827 Kbtu/ft <sup>2</sup>	
Dogwood Elementary School	53.559 Kbtu/ft <sup>2</sup>	
Oakton High School	53.526 Kbtu/ft <sup>2</sup>	
Fox Mill Elementary School	49.915 Kbtu/ft <sup>2</sup>	
Herndon High School	49.297 Kbtu/ft <sup>2</sup>	
Oakton Elementary School	48.629 Kbtu/ft <sup>2</sup>	
Spring Hill Elementary School	48.118 Kbtu/ft <sup>2</sup>	
Churchill Road Elementary School	47.639 Kbtu/ft <sup>2</sup>	
Colvin Run Elementary School	47.363 Kbtu/ft <sup>2</sup>	
Archer Elementary School	46.569 Kbtu/ft <sup>2</sup>	
Navy Elementary School	45.866 Kbtu/ft <sup>2</sup>	
Cedar Lane School	45.398 Kbtu/ft <sup>2</sup>	
Carson Middle School	45.239 Kbtu/ft <sup>2</sup>	

Building with Partial Data

### Use/Area (Kbtu/ft<sup>2</sup>)

Low	Median	High
26.241	42.729	65.464

### Total Cost

Low	Median	High
\$56,975	\$126,392	\$705,541



Edit Use for Bill Calculation

Cancel Save

Meter  
⚡ SUB: Student Housing - ELE 01

Account  
🏠 SUB: Student Housing - ELE 01

Version  
Original

Workflow step  
Calculate Monthly Totals from Smart Meters:  
Calculate monthly totals from smart meters

Effective  
since January 2010

Use source

☒ SmartAnalytics data point ?  

Mains Elec

Edit link to SmartAnalytics data point

☐ Channel readings  

Choose

☐ Fixed amount  

Choose

☐ Copy use from another meter  

%

Bill Split Versions

🏠 KEENE HEALTH SCIENCE - CHW01

▼ Original

Split bills using workflow step [Monthly Workflow: Create Accounting Split Bills](#)

Recipients (Static percentage)

Share = 100% ✎

🏠 Split - Keene Health Science - CHW01 - Fund 7100

75%

🏠 Split - Keene Health Science - CHW01 - Fund 7200

25%

1 Calculate Submeter Bills at Stores  
Calculate electricity and natural gas bills for submeters at each store

Meter	This step	Jun 2018	Use	Jun 2017	May 2018	Unit Cost	Cost
⚡ SUB-SW-LA MALL-STORE A-ELE01	1 bill	1 bill	39,117.23 kWh	▼ 15 %	▲ 37 %	\$ 0.110/kWh	\$ 4,305.38
🔥 SUB-SW-LA MALL-STORE A-NG01	1 bill	1 bill	76.90 THERM	▼ 56 %	▼ 59 %	\$ 1.060/THERM	\$ 81.49
⚡ SUB-SW-LA MALL-STORE B-ELE01	1 bill	1 bill	41,814.97 kWh	▼ 15 %	▲ 37 %	\$ 0.110/kWh	\$ 4,602.30
🔥 SUB-SW-LA MALL-STORE B-NG01	1 bill	1 bill	92.92 THERM	▼ 56 %	▼ 59 %	\$ 1.060/THERM	\$ 98.47
⚡ SUB-SW-LA MALL-STORE C-ELE01	1 bill	1 bill	40,466.10 kWh	▼ 15 %	▲ 37 %	\$ 0.110/kWh	\$ 4,453.84
🔥 SUB-SW-LA MALL-STORE C-NG01	1 bill	1 bill	105.73 THERM	▼ 56 %	▼ 59 %	\$ 1.060/THERM	\$ 112.05

2 Calculate Common Area Bills  
Subtract the submeter bills from the vendor bills to determine use/cost for common areas

Meter	This step	Jun 2018	Use	Jun 2017	May 2018	Unit Cost	Cost
⚡ LA_MALL-COMMON_AREA-ELE01	1 bill	1 bill	13,488.70 kWh	▼ 5 %	▲ 37 %	\$ 0.110/kWh	\$ 1,484.61
🔥 LA_MALL-COMMON_AREA-NG01	1 bill	1 bill	44.86 THERM	▼ 49 %	▼ 59 %	\$ 1.060/THERM	\$ 47.54

[illegible]

## Easily link between products

[Bills](#)   [Billing Period Data](#)   [Calendarized Data](#)   [Normalized Data](#)   [Interval Data](#)   [Budgets](#)   [Savings](#)   [Properties](#)   [Flags](#)

Void

All Bills   Not filtered   Filters<sup>0</sup>

\$463,862.52 / 36 bills								Columns	Sort
Billing Period ↓	Account Number ↑	Bill Begin Date	Bill End Date	Meter Cost	Use	Use Unit	Use/Day		
<input type="checkbox"/> Dec 2022	001-8675-309	12/01/2022	01/01/2023	\$13,622.61	98,786 kWh		3,186.65		
<input type="checkbox"/> Nov 2022	001-8675-309	11/01/2022	12/01/2022	\$13,206.29	95,767 kWh		3,192.24		
<input type="checkbox"/> Oct 2022	001-8675-309	10/01/2022	11/01/2022	\$13,656.55	99,032 kWh		3,194.59		
<input type="checkbox"/> Sep 2022	001-8675-309	09/01/2022	10/01/2022	\$13,174.73	95,538 kWh		3,184.61		
<input type="checkbox"/> Aug 2022	001-8675-309	08/01/2022	09/01/2022	\$13,625.52	98,807 kWh		3,187.33		
<input type="checkbox"/> Jul 2022	001-8675-309	07/01/2022	08/01/2022	\$13,671.27	99,139 kWh		3,198.03		
<input type="checkbox"/> Jun 2022	001-8675-309	06/01/2022	07/01/2022	\$13,234.76	95,974 kWh		3,199.12		
<input type="checkbox"/> May 2022	001-8675-309	05/01/2022	06/01/2022	\$13,759.37	99,778 kWh		3,218.64		
<input type="checkbox"/> Apr 2022	001-8675-309	04/01/2022	05/01/2022	\$13,308.49	96,508 kWh		3,216.94		

Calculated Use:SmartAnalytics Use: Calculated from Readings	1268.978367 kWh			
Cost: €0.42/kWh Cost: Rate Schedule		€		532.97
Calculated Use and Cost Use and Cost: Calculated Meter	1268.978367 kWh	€		532.97
Meter Subtotal	1268.978367 kWh	€0.420 / kWh	€	532.97





## **Additional Utility Management Features**

Public/embeddable dashboards

Detailed user permissions and configuration

Energy Use Intensity calculations and reporting

Building-level M&V (IPMVP Option C)

Vendor bill auditing and approval

Integration with accounting platforms

Unit conversion engine

Automatic multi-currency support

Many more...



## **EnergyCAP UtilityManagement Catalyst Sessions**

**How EnergyCAP Does Data Capture – Wednesday AM**

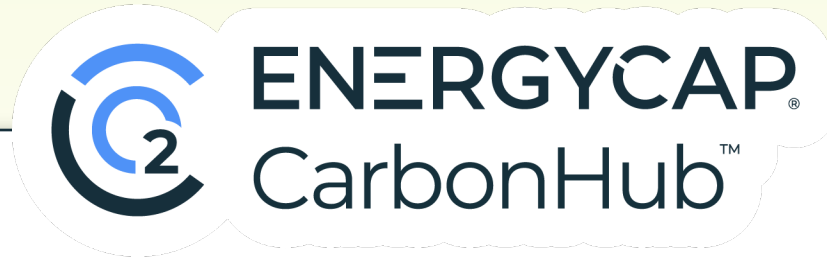
**M&V: Using Option B vs. Option C – Wednesday PM**

**Bill Data Done Better – Wednesday PM**

**Your Data Your Way – Thursday AM**

**Chargebacks & Tenant Billing – Thursday AM**

**I Didn't Know It Could Do That! – Thursday AM**



# **EnergyCAP CarbonHub™ (ECH) overview**

# EnergyCAP CarbonHub // Financial-grade greenhouse gas accounting



## Calculate

Calculate Scope 1, 2, and 3 data across your business.

### Scope 1 Emissions

Jan 2023–Dec 2023  
57,921 t CO<sub>2</sub>e

↓ 12.8%

### Scope 2 Emissions

Jan 2023–Dec 2023  
78,319 t CO<sub>2</sub>e  
Jan 2022–Dec 2022  
70,921 t CO<sub>2</sub>e

↑ 8%

### Scope 3 Emissions

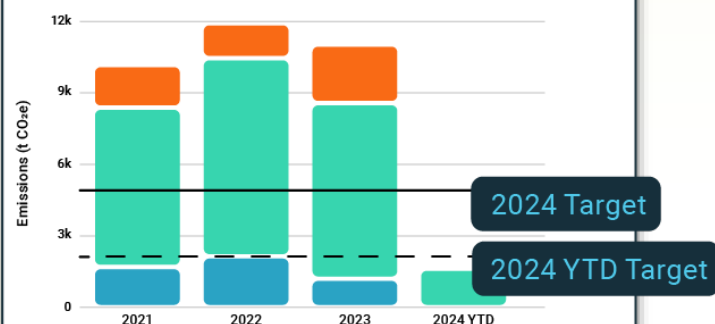
Jan 2023–Dec 2023  
108,510 t CO<sub>2</sub>e  
Jan 2022–Dec 2022  
70,215 t CO<sub>2</sub>e

↓ 6.3%

## Target

Set targets and track performance to your decarbonization goals.

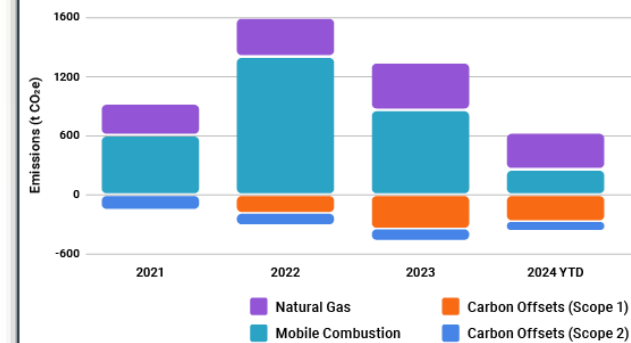
### Total Emissions - Last 4 Fiscal Years



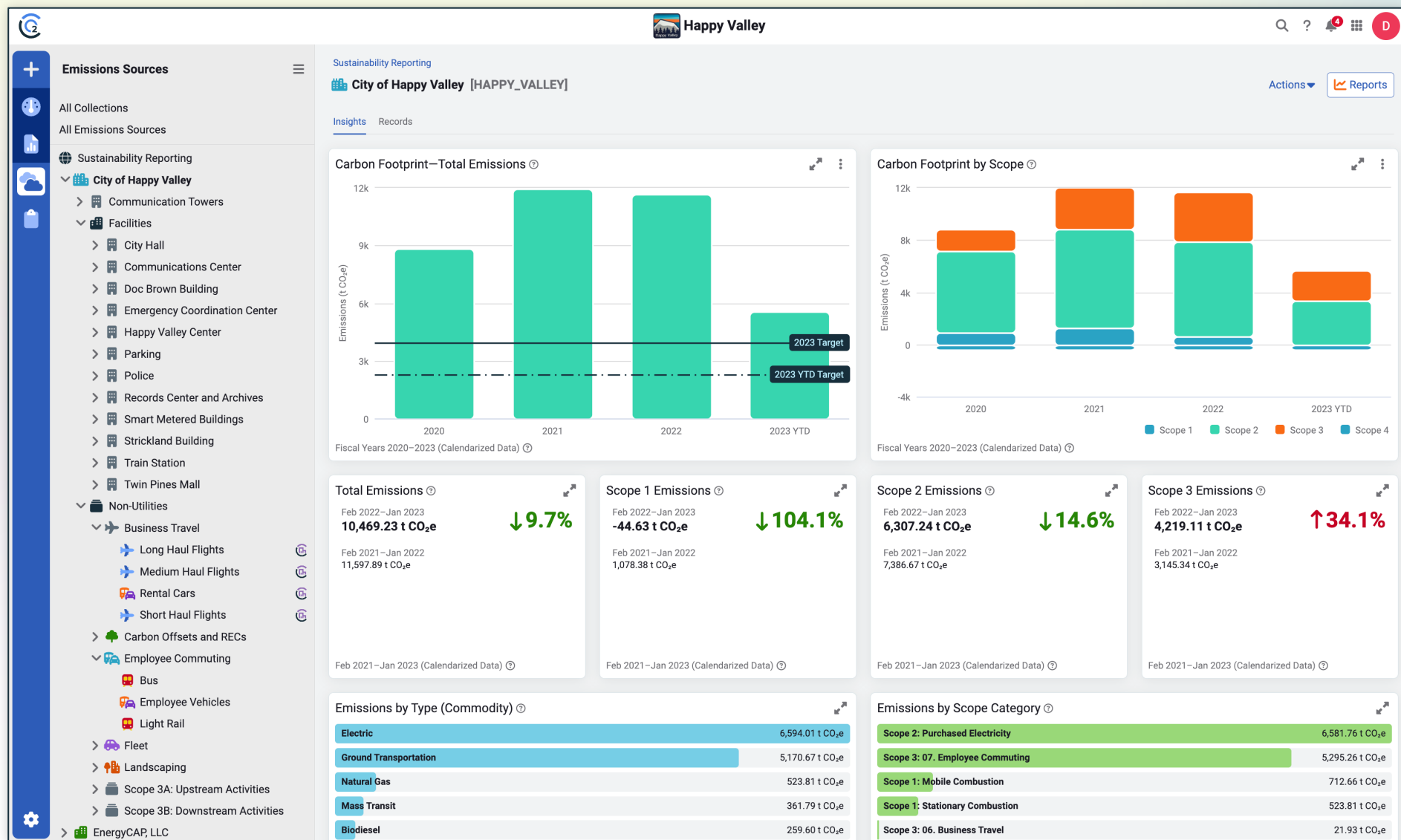
## Report

Access robust analysis and GHG reporting functionality.

### Scope 1 and 2 GHG Emissions by Category

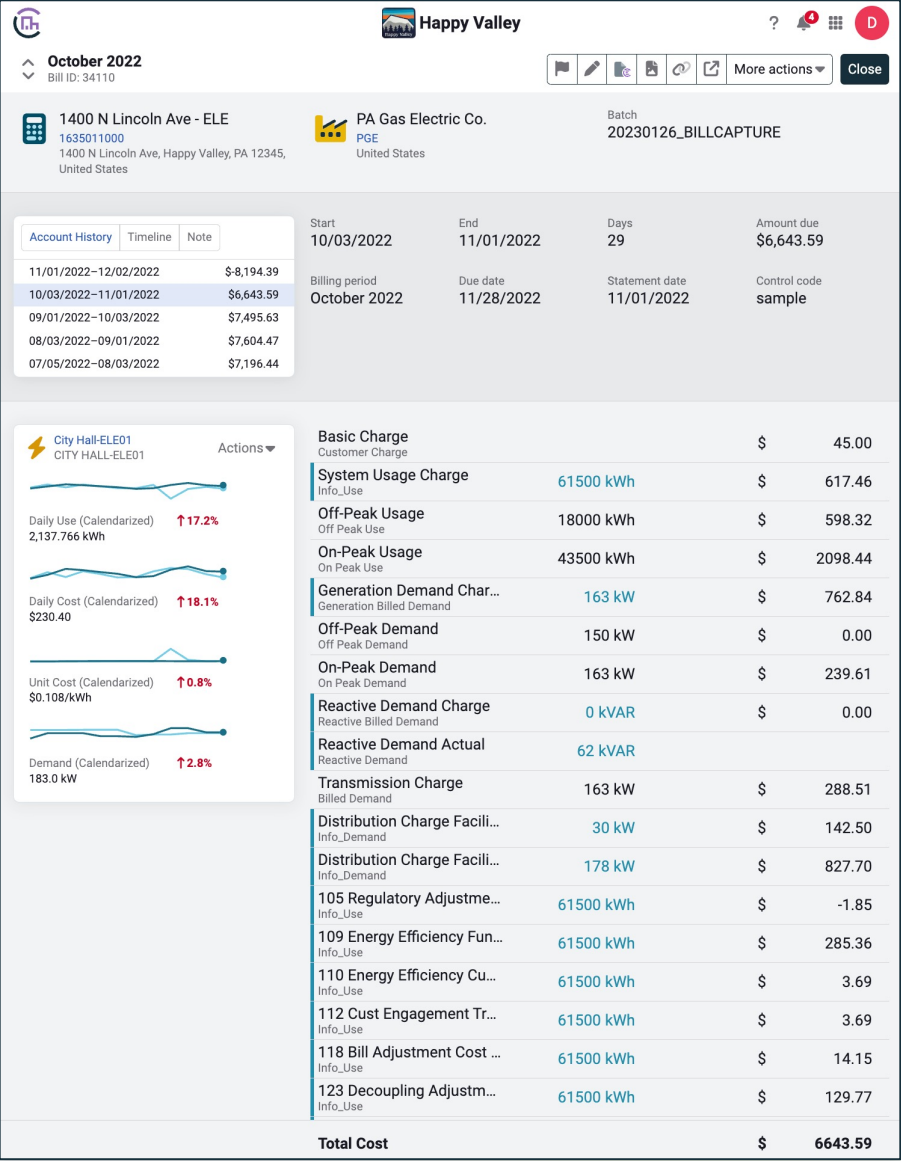


# Dedicated Sustainability Hierarchy for Easy Reporting/Analysis





# EnergyCAP CarbonHub // Integrates with EUM for financial-grade Scope 1/2



Start

10/03/2022

End

11/01/2022

Days

29

Amount due

\$6,643.59

Billing period

October 2022

Due date

11/28/2022

Statement date

11/01/2022

Control code

sample

City Hall-ELE01

CITY HALL-ELE01

Daily Use (Calendarized)

2,137.766 kWh

↑ 17.2%

Daily Cost (Calendarized)

\$230.40

↑ 18.1%

Unit Cost (Calendarized)

\$0.108/kWh

↑ 0.8%

Demand (Calendarized)

183.0 kW

↑ 2.8%

Basic Charge

Customer Charge

\$

45.00

System Usage Charge

61500 kWh

\$

617.46

Off-Peak Usage

18000 kWh

\$

598.32

On-Peak Usage

43500 kWh

\$

2098.44

Generation Demand Char...

163 kW

\$

762.84

Off-Peak Demand

150 kW

\$

0.00

On-Peak Demand

163 kW

\$

239.61

Reactive Demand Charge

0 kVAR

\$

0.00

Reactive Demand Actual

62 kVAR

\$

0.00

Transmission Charge

163 kW

\$

288.51

Distribution Charge Facili...

30 kW

\$

142.50

Distribution Charge Facili...

178 kW

\$

827.70

105 Regulatory Adjustme...

61500 kWh

\$

-1.85

109 Energy Efficiency Fun...

61500 kWh

\$

285.36

110 Energy Efficiency Cu...

61500 kWh

\$

3.69

112 Cust Engagement Tr...

61500 kWh

\$

3.69

118 Bill Adjustment Cost ...

61500 kWh

\$

14.15

123 Decoupling Adjustm...

61500 kWh

\$

129.77

Total Cost

\$

6643.59

Edit Record 13807

Cancel

Save

This emissions record was generated from an EnergyCAP UtilityManagement bill. [Edit these read-only properties in EUM](#)

Emissions source

City Hall-ELE01

Supplier

PA Gas Electric Co.

Create an emission source

Start date

10/03/2022

End date

11/01/2022

EMISSIONS DETAILS AND CALCULATIONS

Scope category

Scope 2 - Purchased Electricity

Learn more about scope categories

Factor

RFC East

Factor details

Quantity

61500

Unit

kWh

Cost

6643.59

Currency

USD (\$)

NOTES

Add notes here...

Select file...

Browse

**Double-dip** on interval data and utility bills you’re already tracking

**Automatically reflect emission changes** as utility bills are created/edited

Supplement source billing data with details in CarbonHub

Utilize advanced tools to track **Scope 3 impacts** directly from utility bills

# EnergyCAP CarbonHub // Easy emission and factor management

- Add unlimited emission source types
- Attach docs to emissions records
- Easier than ever to record data by
  - Activity
  - Cost
  - Direct emissions
- Includes over 3,000 global factors and counting!
  - Ability for multiple versions over time
  - Easily import custom factors
  - Support for industry-specific factors (EcolInvent, exiobase, etc.)

**New Record** Cancel Save

Emissions source  
 Long Haul Flights

Supplier  
Delta Airlines

[Create an emission source](#)

Start date  
01/01/2022

End date  
01/01/2023

**EMISSIONS DETAILS AND CALCULATIONS**

Use

Cost

Direct/Offset

Scope category  
Scope 3 - 06. Business Travel

[Learn more about scope categories](#)

Factor  
Air Travel - Long Haul (>= 2300 miles)

[Factor details](#)

Quantity  
40480

Unit  
mi

Cost  
37500.00

Currency  
USD (\$)

**NOTES**  
Add notes here...

Select file... Browse

83750382 Edit Close

Emissions source  
 Pittsburgh Commuting

Start date  
03/01/2023

End date  
04/01/2023

Scope category  
Scope 3 - 07. Employee Commuting

Resource  
 Ground Transportation

Factor  
Passenger car by mile

Category  
United States

Source  
U.S. EPA, GHG Emission Factors Hub

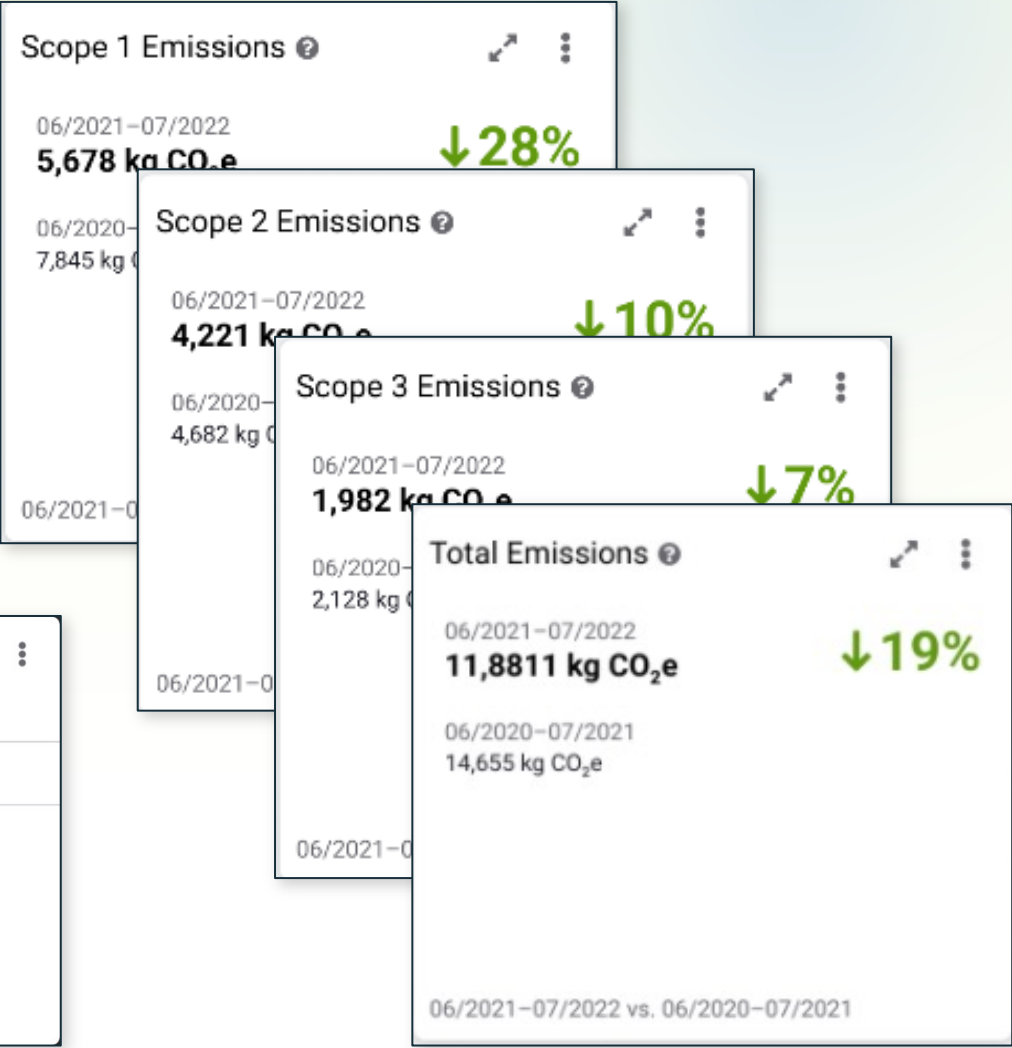
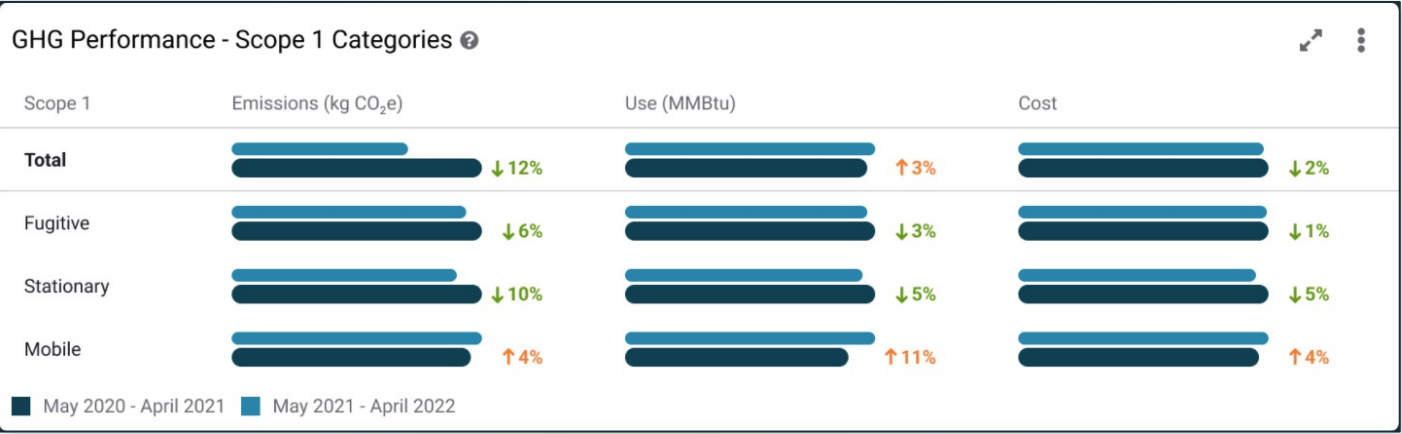
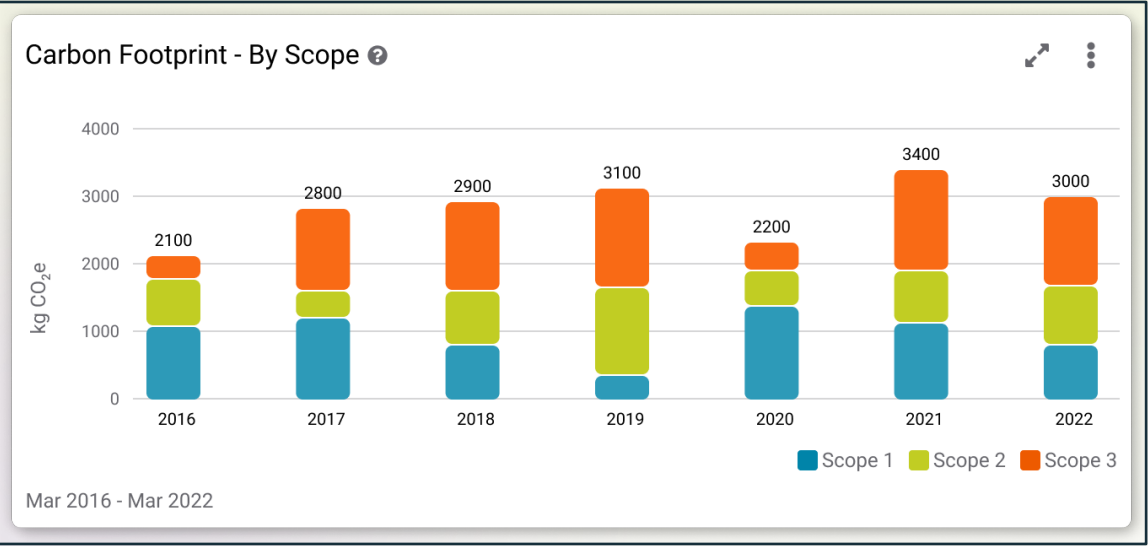
Quantity  
10,455 mile

**Total emissions**  
Carbon Dioxide  
Methane  
Nitrous Oxide

**3.47 t CO<sub>2</sub>e**  
3.47 t CO<sub>2</sub>e  
0 t CO<sub>2</sub>e  
0 t CO<sub>2</sub>e

Notes  
Add notes here

# Granular GHG reporting, comparison, and analysis // All scopes



# **EnergyCAP CarbonHub Catalyst Sessions**

**Your Data Your Way – Thursday AM**

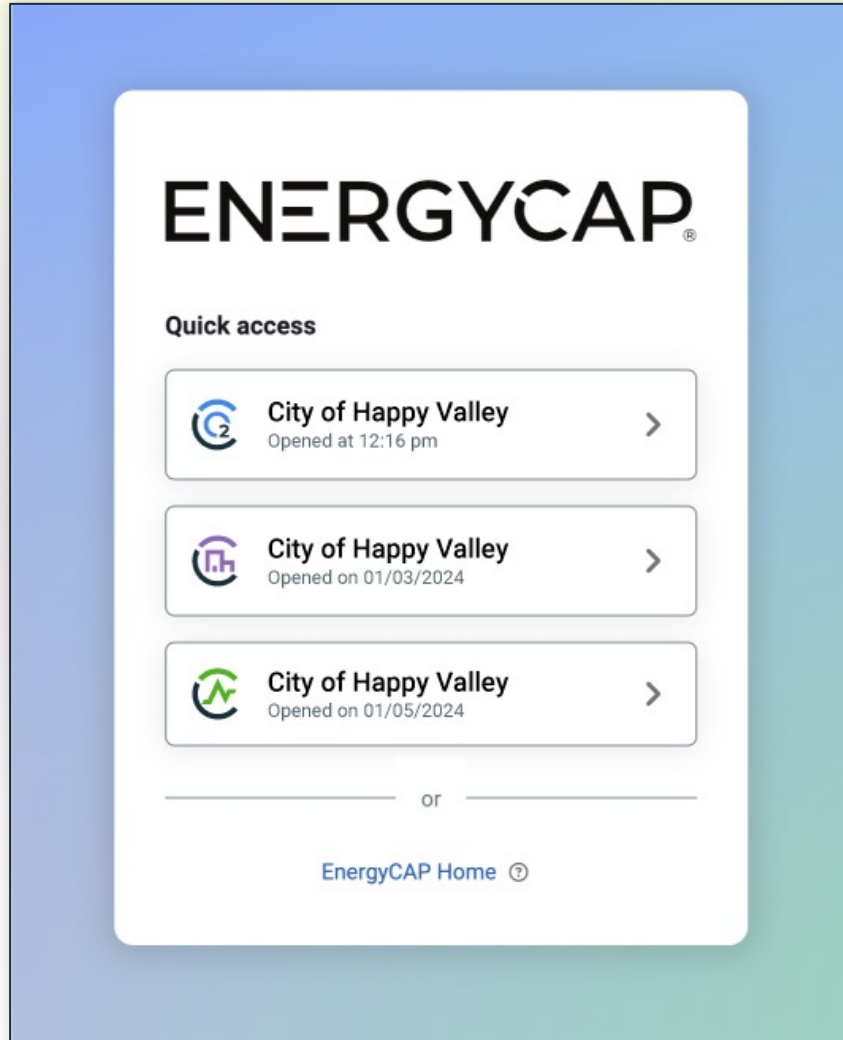
**Chargebacks & Tenant Billing – Thursday AM**

**ESG Regulations + CarbonHub – Thursday AM**



# **EnergyCAP Platform & Services**

# Single Sign-On (SSO) Access Across Products



Combined login for 1, 2, or 3 EnergyCAP products

Integrated single sign-on (SSO) options for customers with existing authentication tools

- Same username/password customers regularly use
- Follow organizational security rules
- Auto-create authorized users

Easily gain value of cross-product reporting and analytics

# Integration, interoperability, security

## EnergyCAP API Platform

Robust resources available for developers to extend EnergyCAP features and integrate additional systems

Dedicated developer website:  
<https://developer.energycap.com>

## Security

NIST and ISC standards-based security policies

FedRAMP certified

SOC2 certified

Continuous monitoring, regular vulnerability scans, automatic threat detection

## Integrations

Built by EnergyCAP, clients, or third-parties

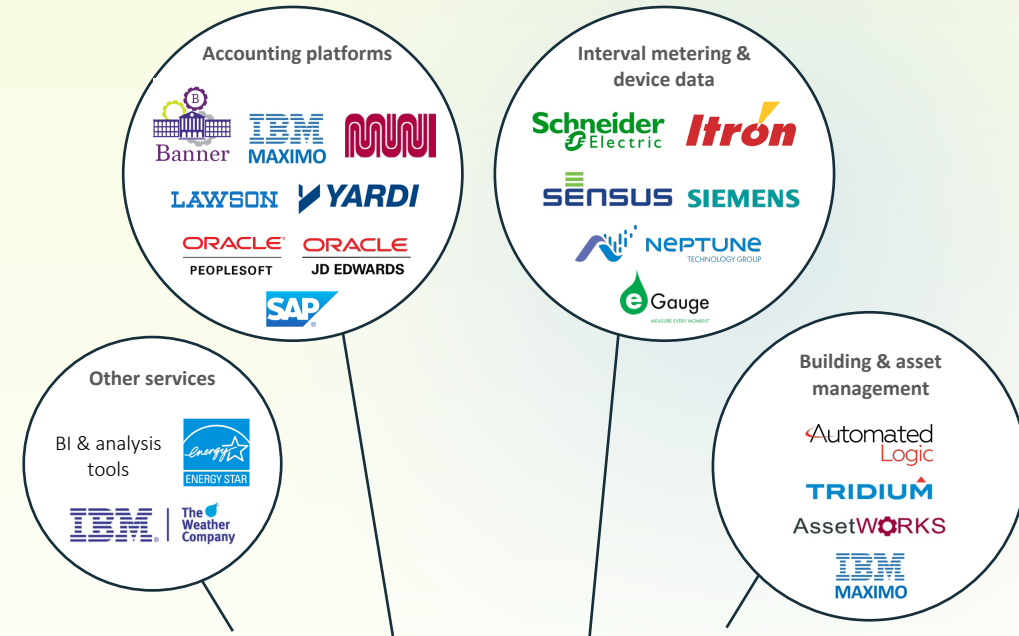
Business-critical integration services

- Accounting systems (AP, GL)
- Interval data from private/public metering systems
- Property and asset management
- Building management systems

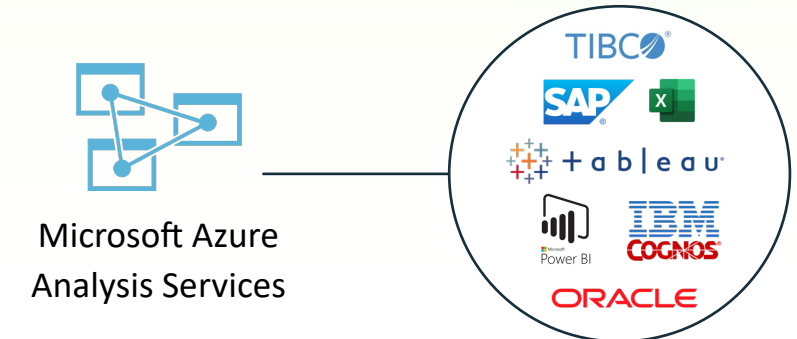
## Additional integration services

ENERGY STAR submission/reporting features

Business intelligence and reporting add-on



## EnergyCAP API Platform



**NIST**  
National Institute  
of Standards  
and Technology

**(ISC)**<sup>2</sup>  
International Standard  
for Information Security

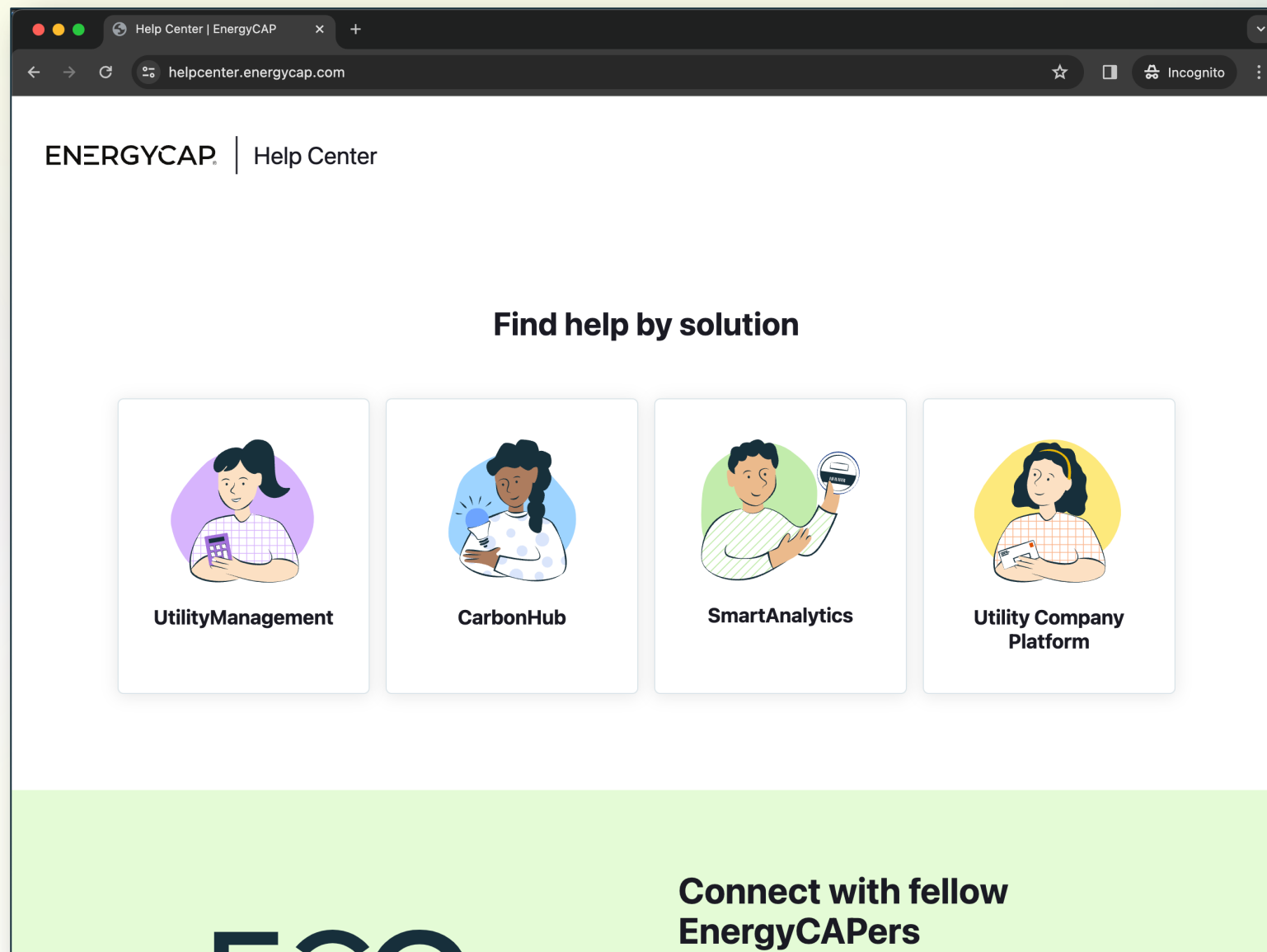
**AICPA**  
SOC 2  
Formerly SAS 70 reports

**FR** FedRAMP

# Integrate and analyze your data // EnergyCAP Report Designer BI



# EnergyCAP Help Center // helpcenter.energycap.com





# EnergyCAP Help Center // helpcenter.energycap.com

Welcome to SmartAnalytics

Search...

Popular Questions

How do I write a formula?

What is a data point?

Help By Category

Getting Started

Learn basic features of SmartAnalytics

Portfolio Analyst

Analyze your data

ENERGYCAP | Help Center

Help Center Home

SmartAnalytics Help

SmartAnalytics

SmartAnalytics overview

Get Started

White Label

User management

Account management

Data integration

FTP

MQTT

PowerRadar

Smappee

Acuvim II

AcuRev2100

eGauge

Episensor

Katerra

Wattwatchers

Arc Green Building

AcuLink 710

AcuVIM-II via HTTP

AcuRev20xx

EIG Nexus 1500

SmartAnalytics > Data integration > eGauge

Set up eGauge with HTTPS

eGauge meters can be connected to the internet and configured to automatically transfer data to SmartAnalytics over **HTTPS** without the need for extra hardware such as a gateway device.

Setting up the meter to automatically send data to your dashboard can be completed in a matter of minutes.

You need to configure the registers for your eGauge device first. You can do this from the Settings and then Installation menu.

Configure your meter to export data

Log in to the SmartAnalytics eGauge configuration page, using your SmartAnalytics credentials. This task can only be performed by administrators.

SmartAnalytics eGauge Gateway

E-mail

E-mail

Password

Password

In this Topic

Configure your meter to export data

Add a meter by serial number

Configure data sharing

Map the registers from your eGauge to one or more data points

ENERGYCAP. © EnergyCAP, LLC

# EnergyCAP Support Team

## ENERGYCAP®

### Contact Support

Enter your information and we'll reply by email.

Full Name  Email

Your Organization

Type  Product

Subject

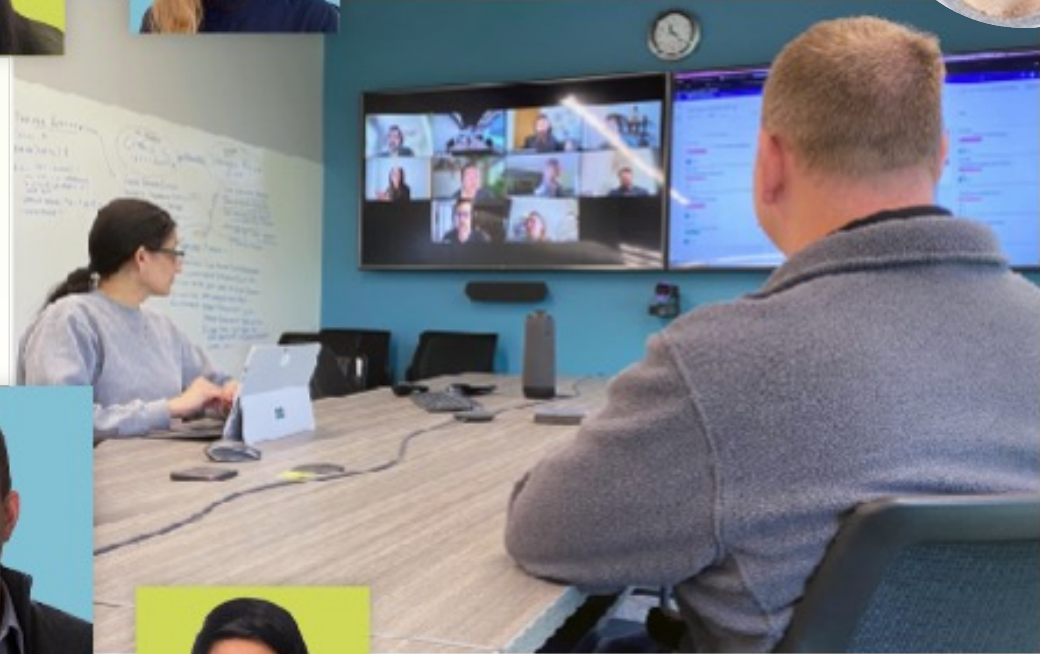
Description

☐ I'm not a robot



reCAPTCHA  
Privacy - Terms

Send



## EnergyCAP Eco Champions // User Community

<https://energycap.com/subscribe-eco-champions>

Sign Up Now



Share ideas // Build community // Make the world a greener place

# EnergyCAP Eco Champions // User Community

Eco Champions

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9+

David

Lives

Discussions

Members

Channels

-Idea Sharing-

\*New Member Intros\* 27

# #Accounting/Finance

# #Benchmarking

# #Energy-Conservation 1

# #Reporting 2

~ I didn't know I could do th... 13

~CarbonHub~ 5

~SmartAnalytics~

Announcements 6

Catalyst 2024 5

Commercial 3

Government 11

Higher Ed 3

K-12 4

Utilities

More channels

Forums

Feature Request Forum

~SmartAnalytics~

Members

June 1, 2023

Sean Gray

I have a question about Wattics and your device and system agreement. Is the devices included in the Wattics purchase or is it separate? Do you have the slides for the recent presentation? I know the tape is available, but can I have a copy of the slideshow with John presenting?

4 replies

November 8, 2023

Daniella Weston Admin

In case you missed it, we sent out a feature release email with some notes about new things available in SmartAnalytics: [Read the release notes here!](#) - if you didn't receive the email but want to be on the list, send me a DM and I'll make sure you're subscribed!

- Updated Help documentation available in the EnergyCAP Help Center
- Operations Analyzer enhanced with GHG emissions data
- Measurement and Verification (M&V) projects now calculate avoided emissions
- Public dashboard links available in Admin
- New filter options for Report Logs
- New GHG emissions counter dashboard widget

(edited)

December 7, 2023

Daniella Weston Admin

Reduce emissions (and cost) with real-time data! Check out Dylan Reedy in this quick overview of SmartAnalytics...  
<https://www.energycap.com/resource/reduce-emissions-and-cost-with-real-time-data/>

Write your message here

## Sign Up Now



# **Making the Most of Your Catalyst Experience**



# Be Curious, Ask Questions, and Share with Others

We want this week to be a practical learning experience for you

- Be curious – in and out of sessions
- Try something new!
- Ask questions to presenters and EnergyCAP team members
- Ask questions to other attendees
- Share what you know and what has worked for you
- Don't go home with questions







**Jump In!**



# CATALYST

**Ask about special discount opportunities  
for Catalyst attendees**

**Thank you for joining us!**