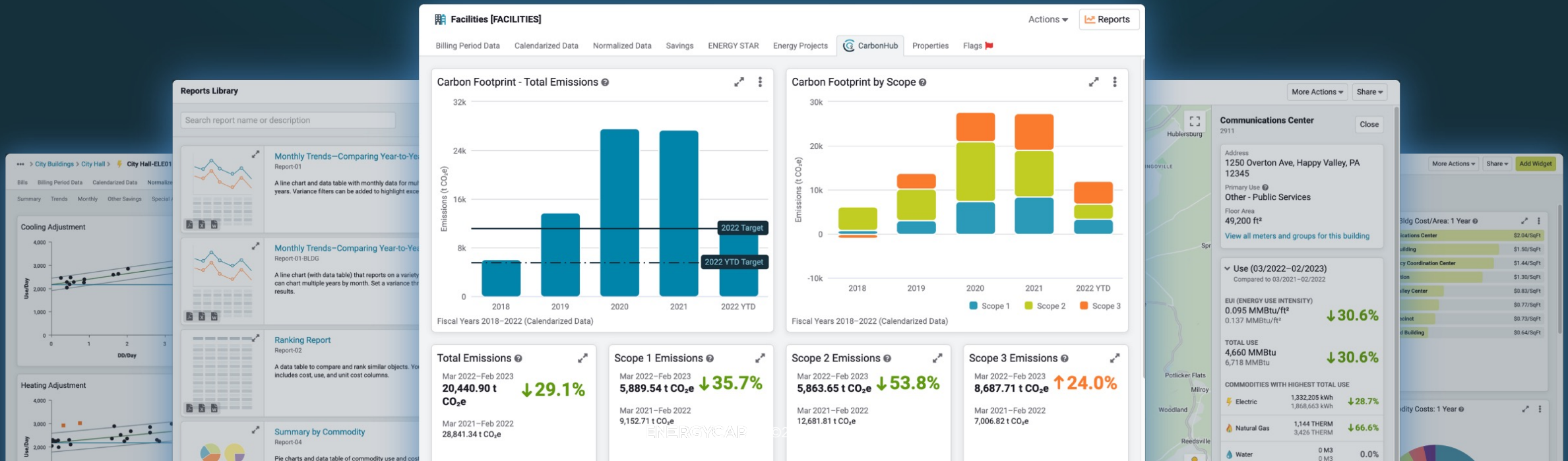


Catalyst

Trainin' for savings

The Next Generation of EnergyCAP





The Next Generation of EnergyCAP

Catalyst is back!

EnergyCAP's legacy and bright future

Five years of EnergyCAP improvements

Going beyond EnergyCAP

Wattics – Real-time energy and sustainability analytics

CarbonHub – Financial-grade greenhouse gas accounting

What's next?

Making the most of your Catalyst experience



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We've missed you!



Catalyst 2018

Version 7 was 9-months old

Dashboards/maps were new

Chargebacks was the headliner

We've missed you!



Catalyst 2018

Version 7 was 9-months old

Dashboards/maps were new

Chargebacks was the headliner

Steve had hair!

Leverage EnergyCAP's Expansive Customer Network

GOVERNMENT

City



State/Province



Federal



County/Regional



EDUCATION

Public School Districts



Public Higher Ed/University Systems



Private Education



COMMERCIAL

General commercial & retail



Ind/manufacturing



Healthcare



Property mgmt/Real estate



Energy services/consultants



Transportation



Housing authorities



Thank you for coming to Happy Valley

Old and New Friends

Catalyst First-timers

Repeat Catalyst Attendees

Regional Training Conference (RTC)
Attendees

Coming from Near and Far

Driving distance

Less than 2 hours on planes

2-5 hours on planes

5-10 hours on planes

Others?

We're glad you're here - let us know how we can help!



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Making the most of your Catalyst experience

Over 40 years of innovation and leadership

FIRST ENERGY MANAGEMENT INFORMATION SYSTEM
EnergyCAP was born (formerly named FASER)

1982

ROBUST ENERGY REPORTING SOLUTIONS
Cost Avoidance with weather normalization

1984

PIONEERED ENERGY AND UTILITY BILL ACCOUNTING
Accounts payable interface and budgets

1992

ENERGY AND FINANCE TEAM COLLABORATION
Chargebacks, submeters, splits, and virtual formulas

1995

ACCOUNTING WORKFLOW AUTOMATION
EDI 810 and electronic utility bill processing

2000

ENERGYCAP ONLINE
First web-based version of EnergyCAP

2001

ADVANCED ENERGY MANAGEMENT
Interval data tracking, benchmarking and accruals

2004

SUSTAINABILITY AND COMPLIANCE
Automatic GHG emissions calculations and ENERGY STAR Portfolio Manager integration

2007–2009

TELLING THE STORY YOUR WAY
Custom data visualization dashboards and integrations with business intelligence reporting tools

2011–2014

AUTOMATION OF SERVICES
Bill CAPture and alerts notify users of errors

2015–2018

INTELLIGENCE AND SECURITY OPTIMIZATION
Notifications, Flags, Audits, and Advanced Allocation
SOC 2 compliance and FedRAMP Certification

2020–today

WATTICS, REAL-TIME ENERGY ANALYTICS
Granular, real-time alerts and alarms, heat maps, and AI modeling

UTILITY PLATFORM
Energy and sustainability solution for utility providers

2022

CARBONHUB
Holistic view of financial-grade Scope 1, 2 and 3 emissions data

2023

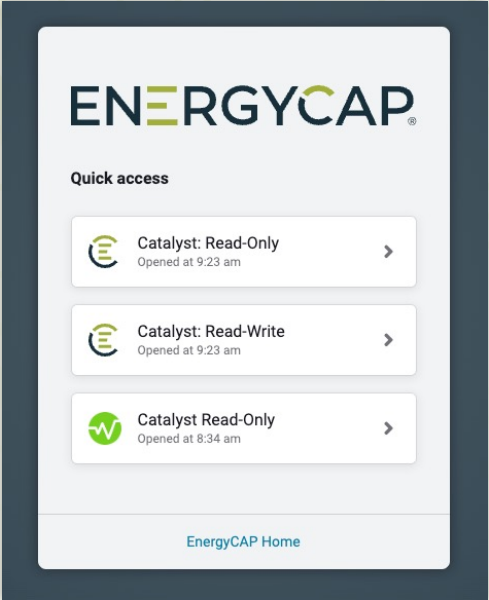
Last 10 years of innovation and solutions

ENERGYCAP.

Bill CAPtureSM



Report Designer BI



EnergyCAP Home

EnergyCAP
Utility Platform



Last 12 months of innovation and solutions



Wattics

An EnergyCAP Solution

CARBON₂HUB[®]

An EnergyCAP Solution

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.



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



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:

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Persona:

Finance/energy



Real-time energy and sustainability analytics

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Customer Data Type:

Time-Series/Interval Energy

Persona:

Energy/facilities

CAPture Services: Bill CAPture, Bill Processing/Managed Services

You've been busy too...

Over the Last Five Years

EnergyCAP

42 million vendor bills
(\$87 billion)

6 million chargeback bills

Bill CAPture

4 million bills
(\$12 billion)

**>1 million bills during past
12 months**

AP Integrations

10 million bills



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EnergyCAP continues to evolve and improve

Enhanced accounting export

Rollback accounting exports

Global dashboard filter

Estimated readings on chargebacks

Automatic interval data rollup

Demand charges in chargebacks

Cost Avoidance (w/ enhancements)

Bill audits

Bill flags

Custom building benchmarks

Multi-topmost permissions

Automatic meter unit conversion

Bill formats w/ improved flow

Bill reversals

Report Distributions

Advanced custom fields

Pending batches

Additional dashboard widgets

Improved interval data import

Rate schedule versions

Enhanced Setup Spreadsheets

Bulk edit readings

Auto-create SSO users

Bill list enhancements

Bill history pop-out

ENERGY STAR submission screen

Redesigned ENERGY STAR tools

Improved user creation flow

Bill outlier audits and report

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Wattics // 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

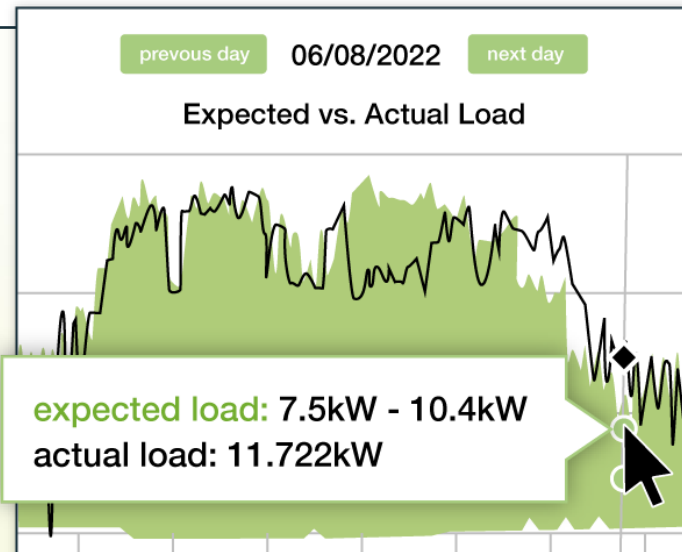
Solar

EV charger

Daily visitors

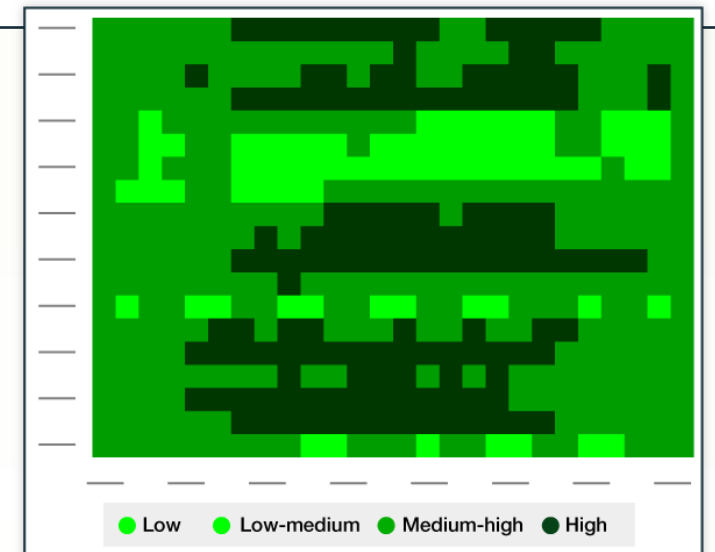
Monitor

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



Analyze

Access robust analysis and reporting functionality.









































Wattics // Real-time energy and sustainability analytics

Many integration options/formats

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

Connected devices and systems

 5-step guide to install and connect your Wattwatchers device to Wattics energy management software THIRD-PARTY INTEGRATIONS	 Accuenergy AcuLink 710 via HTTP GATEWAYS	 Accuenergy AcuREV20XX Meters via HTTP METERS	 Connect your Elvaco CMe3100 gateway to Wattics energy and air analytics software GATEWAYS	 Connect your Episensor gateway and sensors to Wattics THIRD-PARTY INTEGRATIONS	 Connect your Schneider Com'X Gateway to Wattics via API GATEWAYS	 Plateforme ENGIE DATA SYSTEMS	 Questionnaire: Determining your metering needs and project environment METERS	 Rainforest Eagle Gateway via HTTPS GATEWAYS	 Use your Accuenergy AcuRev 2020 or Acuvim II meter as a gateway for pulse capable meters METERS
 Accuenergy AcuVIM-II via HTTP METERS	 Analytics REST API API	 Aquametro CONTOIL VZO 4 / 8 via Octopus Gateway METERS	 Carlo Gavazzi EM21 via Octopus Gateway METERS	 Carlo Gavazzi VMU-C EM via FTP GATEWAYS	 Connect your building devices to Wattics via MQTT THIRD-PARTY INTEGRATIONS	 Landis Gyr ULTRAHEAT T550 (UC50) via Octopus Gateway METERS	 Northern Design Rail 350 Meters via Octopus Gateway METERS	 Omron KM-NI-FLK via Octopus Gateway METERS	 SolarEdge API THIRD-PARTY INTEGRATIONS
 Connect your Shelly 3EM 3-phase meter to the Wattics energy management dashboard METERS	 Eaton PXM 2000 Meters via Octopus Gateway METERS	 eGauge via HTTP METERS	 How to connect your Wattsense box to Wattics cloud based energy analytics software GATEWAYS	 Integrate your Kaiterra Air Quality sensors with Wattics energy management [How to guide] SENSORS	 Integrate your Smappet device with Wattics Energy Management Software THIRD-PARTY INTEGRATIONS	 REST API - Smart Meter Energy Data API API	 Schneider PowerLogic ECX300 Gateway via FTP GATEWAYS	 Schneider PowerLogic PM8000 meter via Obvius AcquiSuite EMB A8810 Gateway METERS	 Upload your data in CSV with data uploader in Wattics dashboard FILES
 EIG Nexus 1500 Meter via Obvius AcquiSuite EMB A8810 Gateway METERS	 Get your energy data to Wattics via FTP FILES	 GreenButton XML FILES	 Iskraemeco Mx382 GPR5 via HES METERS	 Itron Gas Volume Converter CORUS (PTZ) via Octopus Gateway METERS	 Klik 22 Electrical Meters via Octopus Gateway METERS	 Schneider TAC Xenta 411 via Octopus Gateway GATEWAYS	 Send your data to Wattics effortlessly with small parser BOT FILES	 Socomec Diris G via FTP GATEWAYS	 Step-by-step-guide: How to connect your Wattics energy management dashboard to Arc green building scoring platform THIRD-PARTY INTEGRATIONS

Wattics // Learn more during Catalyst

- Connection to devices, sensors, gateways, and systems
- Real-time alerts and alarms
- Sentinel machine learning patterns
- ISO 50001 M&V
- Heatmaps
- Formula-based calculations
- Indoor air quality monitoring
- Tariff analytics
- Load profiling
- Actions tracker
- Scheduling optimization
- Production and multi-factor tracking

Wattics Catalyst Sessions

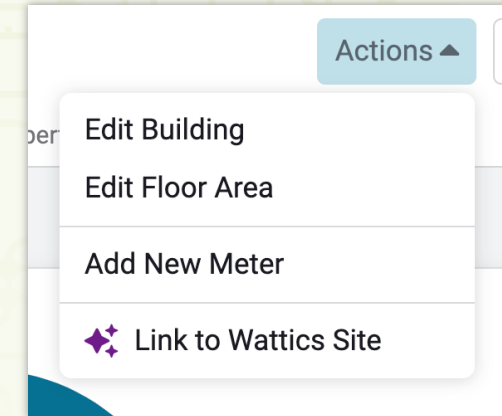
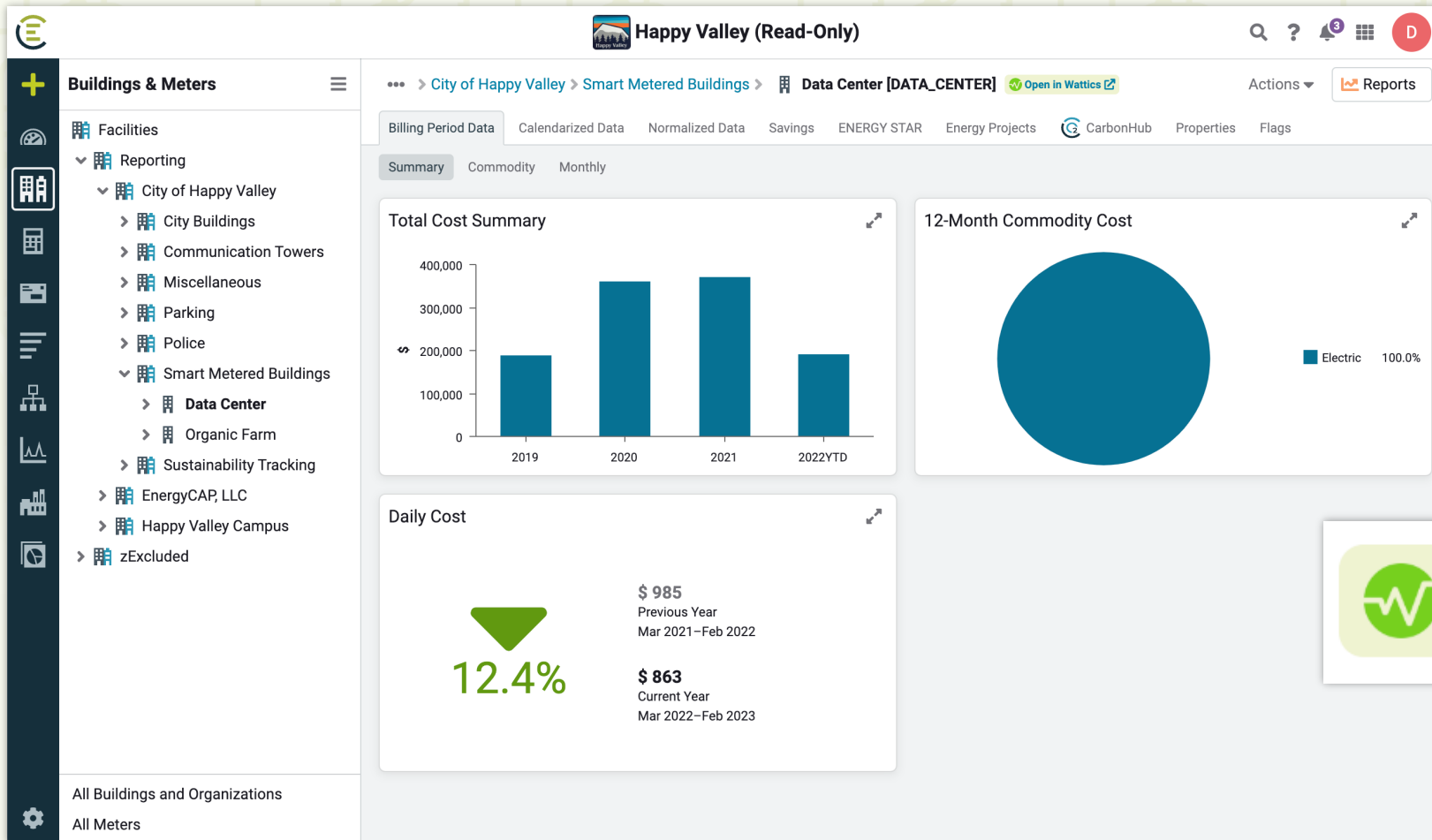
Navigating Real-time Energy Analytics

The Value of Wattics + EnergyCAP Together

Calculating ROI with Wattics // M&V Options B and C IPMVP ISO50001

But wait...there's more

Directly link EnergyCAP/Wattics buildings and meters



Create chargeback bills from Wattics readings

Happy Valley University

April 2023
Bill ID: 30731

Chargeback

ENG-COMP-SCI
ENGINEERING/COMPUTER SCIENCE
16801, United States

ELE_CO-FS
ELE_CO-FS

Batch
20230421_134548_Calculation_vh

Account History

Timeline

Note

04/01/2023–05/01/2023

Apr 2023

\$119.90

03/01/2023–04/01/2023

Mar 2023

\$1,222.55

01/01/2023–02/01/2023

Jan 2023

\$1,375.22

Start

End

Days

Amount due

04/01/2023

05/01/2023

30

\$119.90

Billing period

April 2023

Calculated Use: Wattics Readings

Use: Calculated from Readings

126.648 kWh

Cost: \$0.107/kWh

Cost: Rate Schedule

\$

13.55

Calculated Use and Cost

Use and Cost: Calculated Meter

126.648 kWh

\$

13.55

Calculated Demand: Wattics

Demand: Peak from Readings

17725 W

Conversion Factor: W to kW

Demand: Unit Conversion Factor

0.001 kW

Converted Demand

Demand: Converted Demand

17.725 kW

Cost: \$6/kW

Cost: Rate Schedule Demand

\$

106.35

Calculated Demand

Demand: Calculated Demand

17.725 kW

\$

106.35

Meter Subtotal

126.648 kWh

\$0.947 / kWh

\$

119.90

Happy Valley University

?

?

?

Z

Edit Use for Bill Calculation

Cancel

Save

Meter

Account

Version

Workflow step

Effective

Engineering Computer Science - ELE01

ENG-COMP-SCI

Original Version

Not Configured

January 2020–December 2024

Use source

☒ Wattics data point

☐ Channel readings

☐ Fixed amount

☐ Copy use from another meter

Building 3 - Meter 1 - Shortcut

Choose

Choose

%

Choose

Sum use from

Meters or meter groups

Subtract use from

Meters or meter groups

CarbonHub // Financial-grade greenhouse gas accounting



Calculate

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

Scope 1 Emissions

Jan 2022–Dec 2022
57,921 t CO₂e

↓12.8%

Scope 2 Emissions

Jan 2022–Dec 2022
78,319 t CO₂e

↑8%

Jan 2021–Dec 2021
70,921 t CO₂e

Scope 3 Emissions

Jan 2022–Dec 2022
108,510 t CO₂e

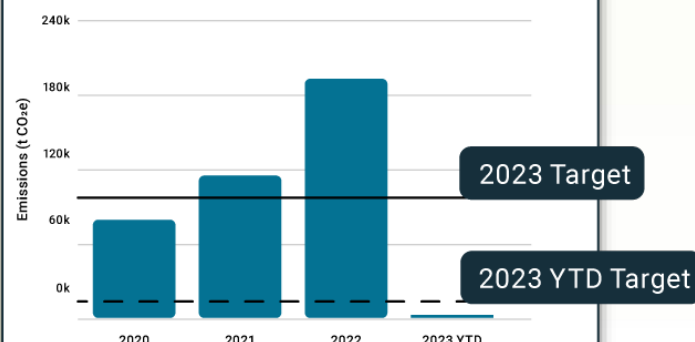
↓6.3%

Jan 2021–Dec 2021
70,215 t CO₂e

Target

Set targets and track performance to your decarbonization goals.

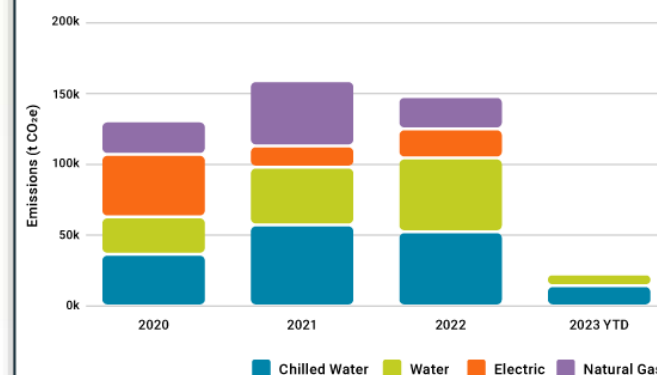
Carbon Footprint - Total Emissions



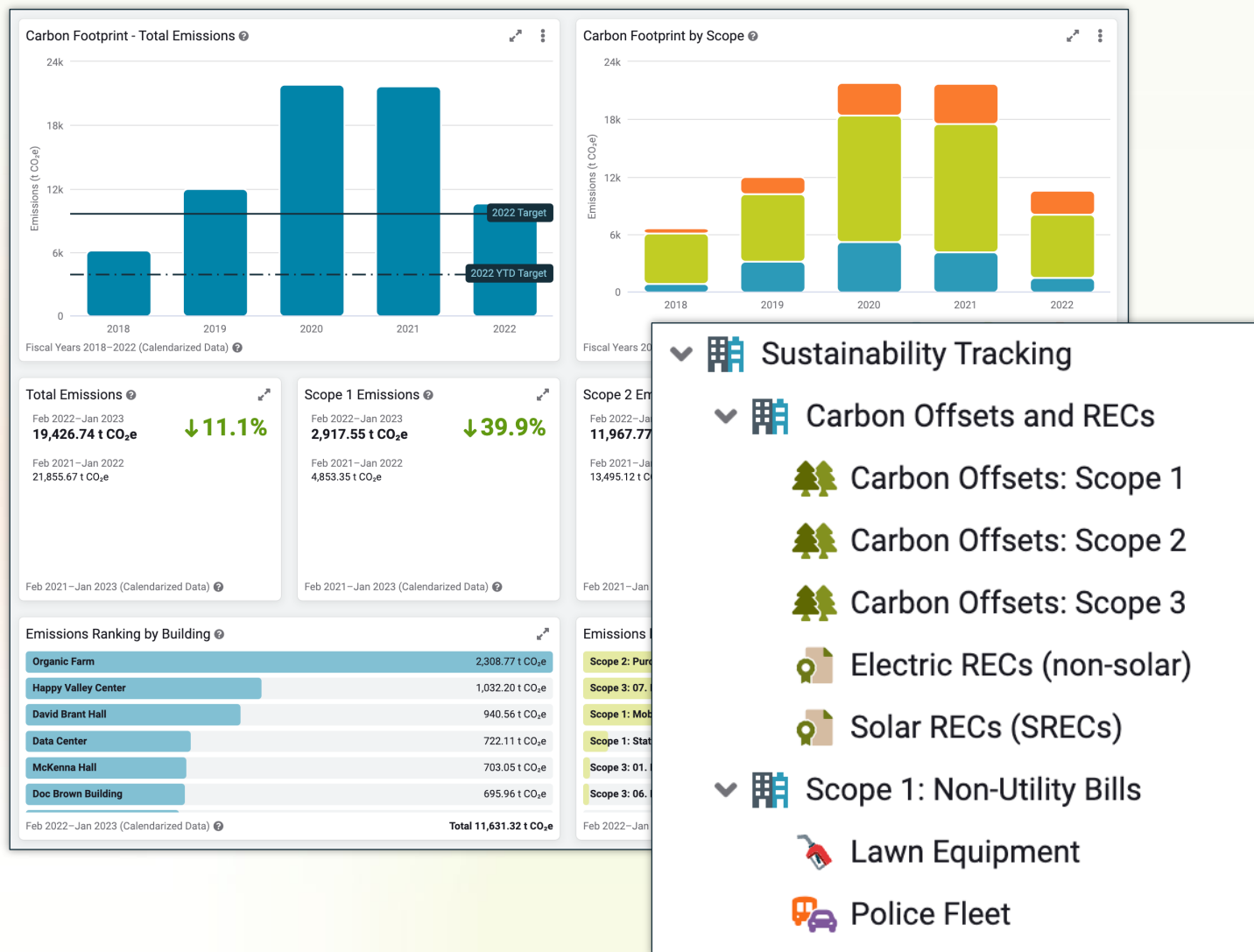
Report

Access robust analysis and GHG reporting functionality.

Carbon Footprint - by Commodity



CarbonHub // Easily combine utility and non-utility data



Double-dip on utility bill data you're already tracking

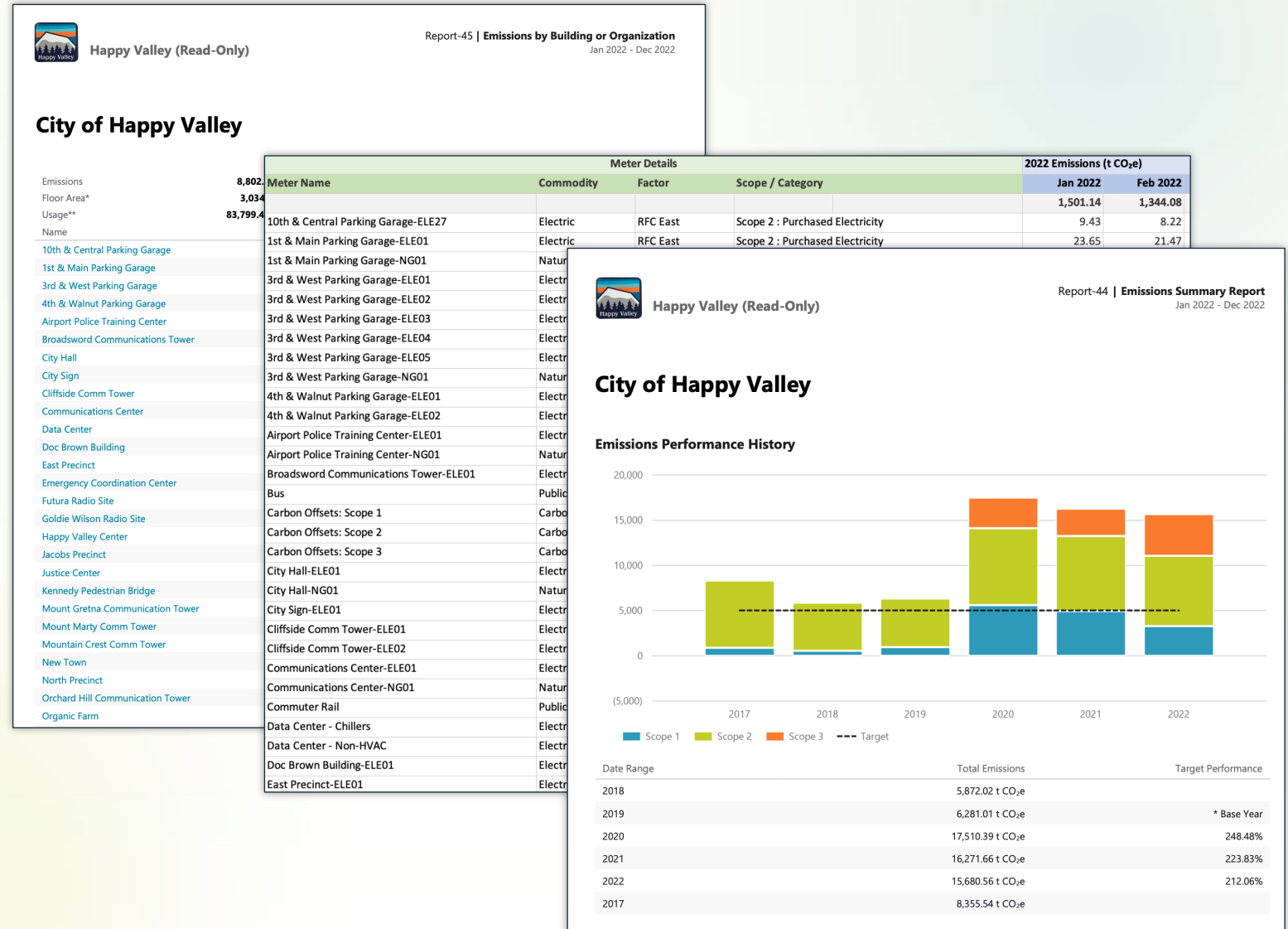
Track non-utility data side-by-side with energy information:

- Fleet data
- Employee commuting
- Business travel
- Spend-based GHG conversions
- Capital purchases
- Offsets/Renewable Energy Credits
- and more...

CarbonHub // Financial-grade carbon reporting tool

Same enterprise-features you expect from EnergyCAP

- Security permissions
- User roles
- Traceability of data
- Reporting
- Dashboarding
- Robust analysis



CarbonHub // Learn more during Catalyst

- GHG management, analysis, and reporting at meter, building, and portfolio level
- Track scopes 1, 2, and 3
- Set GHG emissions targets and track progress towards goals at the micro- and macro-level
- Visualize emissions data by resource, location, gas type, floor area, and primary use
- Track year-over-year emissions data and progress towards goals
- Create and share dashboards with up-to-date emissions data
- Robust GHG factor assignment and management
 - Calculate emissions based on EPA, IEA, and other international factors
 - Create custom, date-effective GHG factors
 - Manage GHG factors in bulk
 - Define default GHG factors per resource type

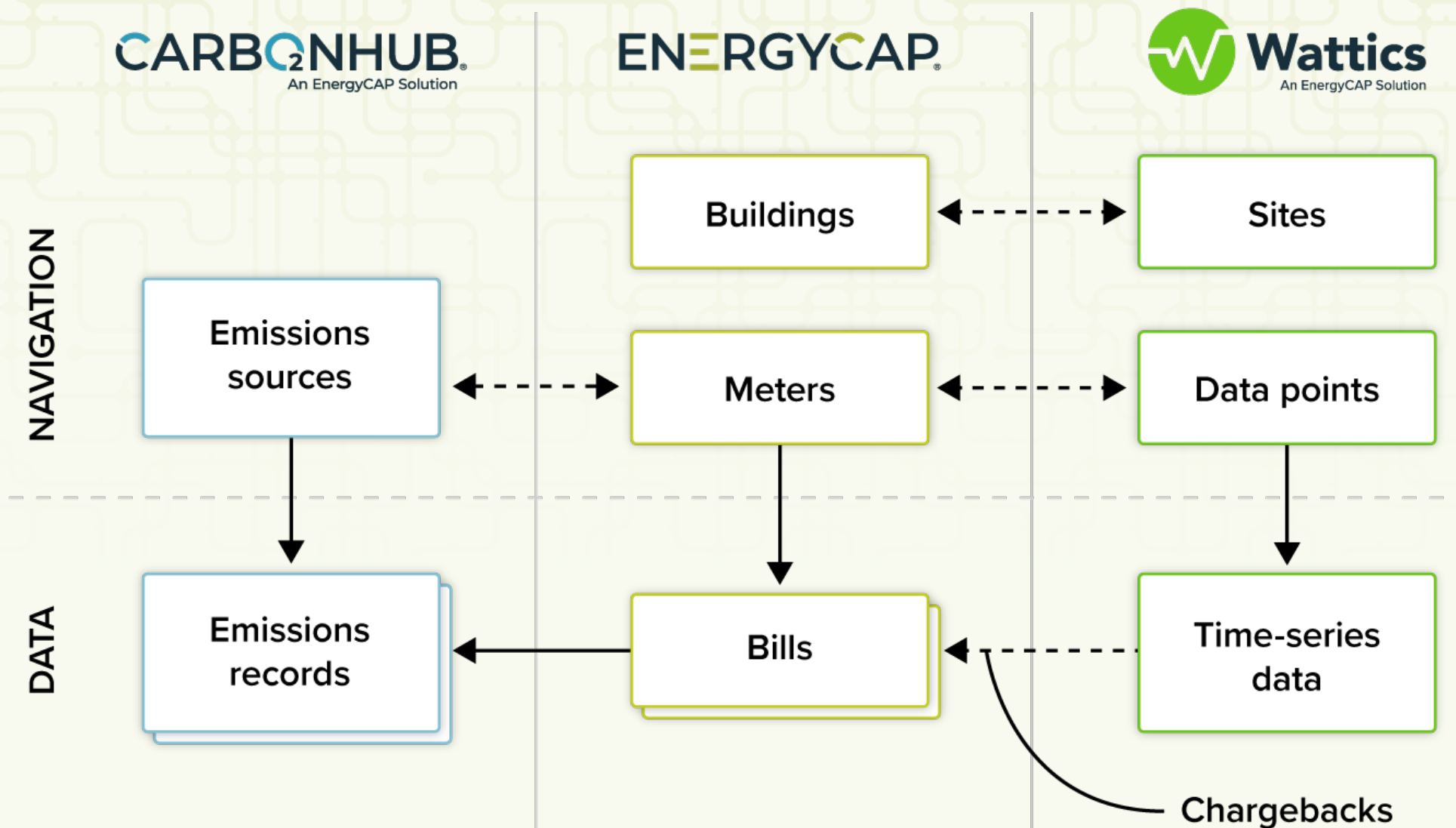
CarbonHub Catalyst Sessions

Introduction to CarbonHub, Financial-Grade Carbon Accounting

Deep Dive: CarbonHub GHG Accounting Solution

**But wait...there's
even more!**

Energy and sustainability ERP // Even more value together





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Catalyst is back!

EnergyCAP's legacy and bright future

Five years of EnergyCAP improvements

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What's Next // CarbonHub

ENERGYCAP®

Quick Access



City of Happy Valley
Opened 10:32 am



City of Happy Valley
Opened Oct 11, 2022



City of Happy Valley
Opened Oct 02, 2022



[EnergyCAP Home](#)

We're investing to make CarbonHub easier to use for all of your carbon-tracking needs

- **Stand-alone application**
- Additional built-in carbon emission sources
- **Separate sustainability hierarchy**
- Dedicated carbon **emission entry screens**
- Flexible carbon reporting management and lists
- **Auto-create emission sources**
- Directly track CO₂e adjustments and details

**Coming next to
CarbonHub**

What's Next // EnergyCAP

Enhancing core functionality // Providing new features in 2023

- Dashboard refresh with new sharing options
- Powerviews refresh with additional content
- New ENERGY STAR report to make certification process easier
- Create and manage resources and units (replaces Unit System)
- Multi-currency support within a single database
- Multi-commodity roll-ups and reporting
- Bill CAPture integration into EnergyCAP - uploads, management, and reporting
- Budgeting and forecasting

What's Next // Managing units and resources (legacy Unit System)

Your Organization

Resources and Units

Search: [] Category: All Categories Used: In Use

Actions: [Add Category] [Add Resource]

Resources	Rollup Unit	Type	Description	Conversions
ELECTRICITY	Wh			
Grid	Wh	System	Lorem ipsum dolor sit amet consectetur. Neque suspendisse sagittis eget nibh. Porttitor massa.	1 Wh x 0.003412141633 = 1 MMBtu
Solar PV Electricity	Wh	System	Lorem ipsum dolor sit amet consectetur. Neque suspendisse sagittis eget nibh. Porttitor massa.	1 Wh x 0.003412141633 = 1 MMBtu
WATER	Gal			
Water	Gal	System	Lorem ipsum dolor sit amet consectetur. Neque suspendisse sagittis eget nibh. Porttitor massa.	
Irrigation	Gal	System	Lorem ipsum dolor sit amet consectetur. Neque suspendisse sagittis eget nibh. Porttitor massa.	
Sewer	Gal	System	Lorem ipsum dolor sit amet consectetur. Neque suspendisse sagittis eget nibh. Porttitor massa.	
UNCATEGORIZED				
Natural Gas-Campus Gas (Tier 2)	Btu	Custom	Lorem ipsum dolor sit amet consectetur. Neque suspendisse sagittis eget nibh. Porttitor massa.	
Ash	lb	System	Lorem ipsum dolor sit amet consectetur. Neque suspendisse sagittis eget nibh. Porttitor massa.	
Ethanol	Btu	System	Lorem ipsum dolor sit amet consectetur. Neque suspendisse sagittis eget nibh. Porttitor massa.	
Recycle	lb	System	Lorem ipsum dolor sit amet consectetur. Neque suspendisse sagittis eget nibh. Porttitor massa.	
Refuse	lb	System	Lorem ipsum dolor sit amet consectetur. Neque suspendisse sagittis eget nibh. Porttitor massa.	

[Learn more about resources](#)

Data Reporting Settings

These updates can take up to 24 hours to be reflected in the application.

UNITS TO USE IN CHARTS AND MAPS

Display **energy use** in: MMBtu

Display **cost** in: USD (\$)

Display **area** in: ft²

ADVANCED SETTINGS

Exclude: last 2 months from charts

[Learn more about data reporting settings](#)

Significant enhancements to unit and resource management

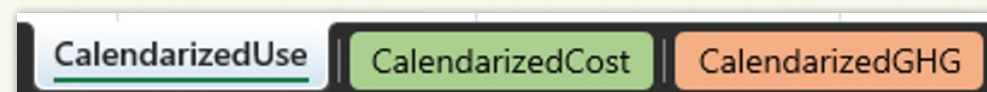
- Easily add new resources (commodities)
- Easily add units and manage unit conversions
- Date-effective unit conversions
- Resource categories—track similar resources together (grid-power, solar, wind, etc.)
- Built-in multi-currency support across meters/bills

What's Next // ENERGY STAR calendarization report

Bill Details				Meter Details				Billed Use		Calendarized Use (2022)							
Bill ID	Start Date	End Date	Billing Period	Meter Name	Building Name	Commodity	Included in ENERGY STAR	Total Meter Use	Recorded in	Jan	Feb	Mar	Apr	May	June	July	Aug
32733	2022-01-10	2022-02-09	Jan 2022	City Hall-ELE01	City Hall	Electric	Yes	67,200 kWh		49,282.1	17,917.9						
32802	2022-02-09	2022-03-10	Feb 2022	City Hall-ELE01	City Hall	Electric	Yes	64,500 kWh			44,789.8	19,710.2					
32762	2022-03-10	2022-04-01	Mar 2022	City Hall-ELE01	City Hall	Electric	Yes	60,600 kWh				46,689.2	13,910.8				
33059	2022-04-08	2022-05-04	Apr 2022	City Hall-ELE01	City Hall	Electric	Yes	50,400 kWh					45,030.0	5,370.0			
33133	2022-05-04	2022-06-03	May 2022	City Hall-ELE01	City Hall	Electric	Yes	54,900 kWh						50,588.6	4,311.4		
33262	2022-06-03	2022-07-05	Jun 2022	City Hall-ELE01	City Hall	Electric	Yes	59,700 kWh							52,118.5	7,581.5	
33740	2022-07-05	2022-08-03	Jul 2022	City Hall-ELE01	City Hall	Electric	Yes	67,500 kWh								62,680.6	4,819.4
33564	2022-08-03	2022-09-01	Aug 2022	City Hall-ELE01	City Hall	Electric	Yes	72,900 kWh									72,900.0
33779	2022-09-01	2022-10-03	Sep 2022	City Hall-ELE01	City Hall	Electric	Yes	71,700 kWh									
34110	2022-10-03	2022-11-01	Oct 2022	City Hall-ELE01	City Hall	Electric	Yes	61,500 kWh									
34237	2022-11-01	2022-12-02	Nov 2022	City Hall-ELE01	City Hall	Electric	Yes	81,600 kWh									

Easily compare original billing data to calendarized data

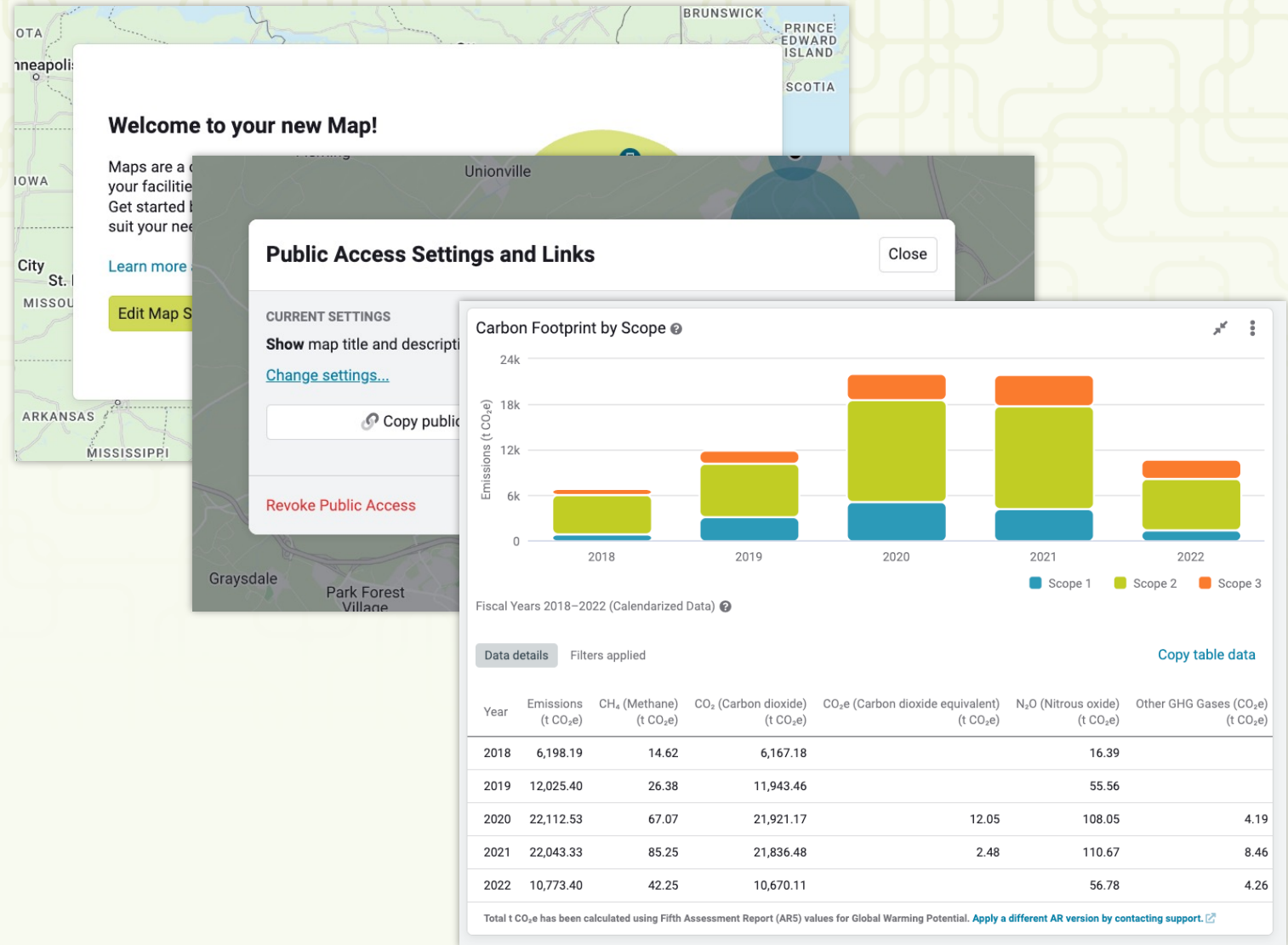
- Make ENERGY STAR audits easier
- Use, cost, and GHG available



What's Next // Refreshed dashboards, maps, and Powerviews

Telling your story with your EnergyCAP data

- Easier to create and edit dashboards
- Advanced options for public dashboards
- Easier to understand maps with visual comparisons
- More ways to download your data and charts



Dashboards and Powerviews Enhancements



The Next Generation of EnergyCAP

Catalyst is back!

EnergyCAP's legacy and bright future

Five years of EnergyCAP improvements

Going beyond EnergyCAP

Wattics – Real-time energy and sustainability analytics

CarbonHub – Financial-grade greenhouse gas accounting

What's next?

Making the most of your Catalyst experience



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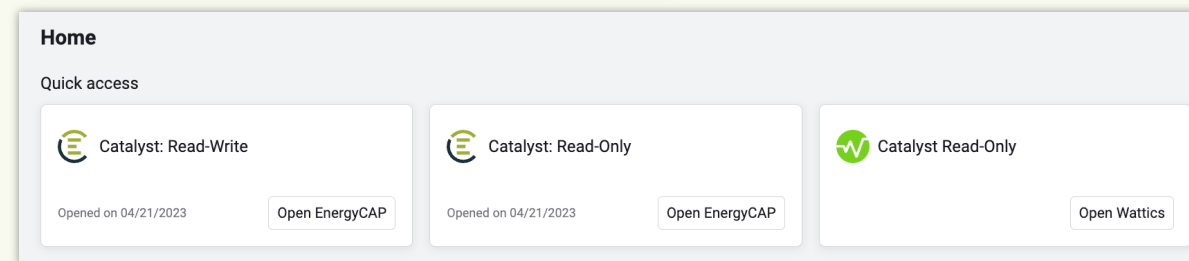
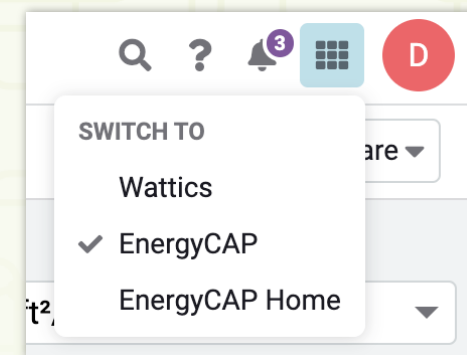
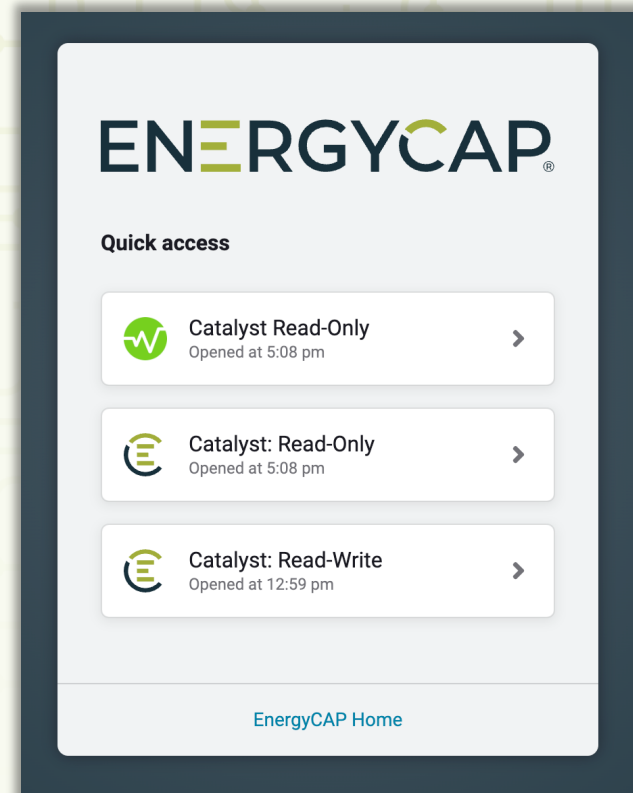
What's next?

Making the most of your Catalyst experience

Try out Wattics, EnergyCAP, and CarbonHub!

Access is available throughout Catalyst

- Look for personalized invitation emails from EnergyCAP
- Log in via **EnergyCAP Home** (login.energycap.com)
- Connected EnergyCAP/Wattics databases ("Catalyst Read-Only")
- EnergyCAP database to play in ("Catalyst Read-Write")
- Use the **application switcher** to navigate between EnergyCAP Home, Wattics, and EnergyCAP



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
- **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





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**Thank you for making
Catalyst great!**

Session Survey

conferences.energycap.com/surveys

