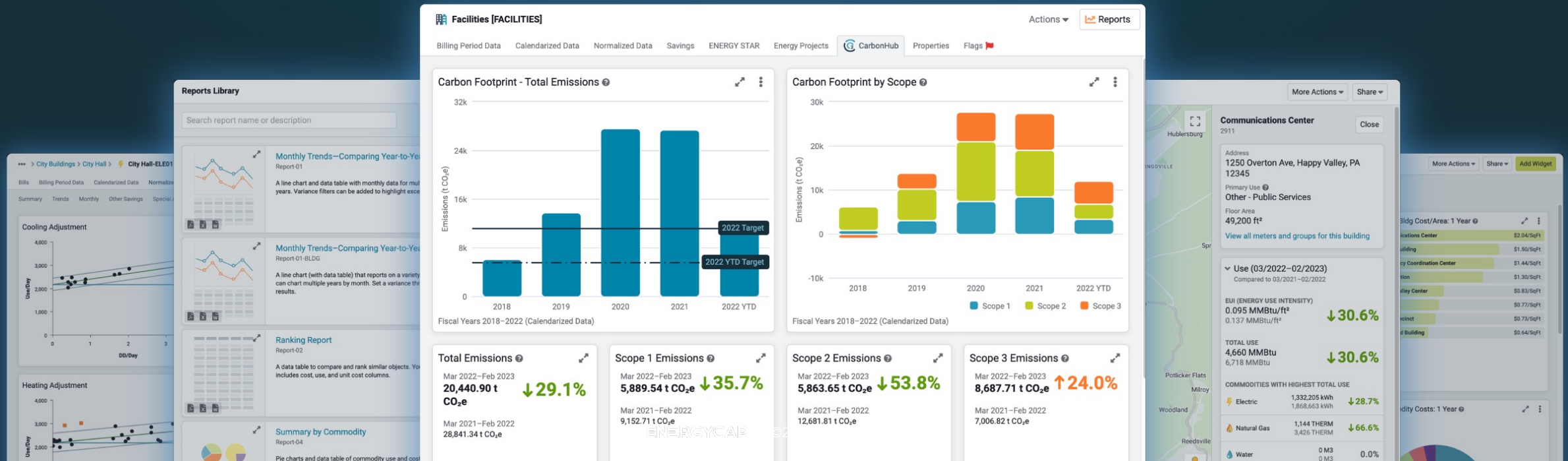


EnergyCAP Catalyst Roadshow



Today's Schedule

EnergyCAP Catalyst Roadshow - Schedule

Welcome / EnergyCAP State of Union / Next Generation of EnergyCAP

Beginner Sessions

EnergyCAP 101 / The Basics

Entering, Managing, and Validating Bills

Analyzing and Presenting Your Data

Advanced Sessions

Accounting Workflow

Chargebacks

Mastering Custom Fields, Groups, and Filters

Lunch / Networking

Montclair

The Value of Wattics + EnergyCAP

CAPture Services: Simplifying Bill Processing

Merritt

The Next Generation of EnergyCAP Reporting

CarbonHub: Carbon Accounting

Joint Session: I Didn't Know It Could Do That!

The Next Generation of EnergyCAP

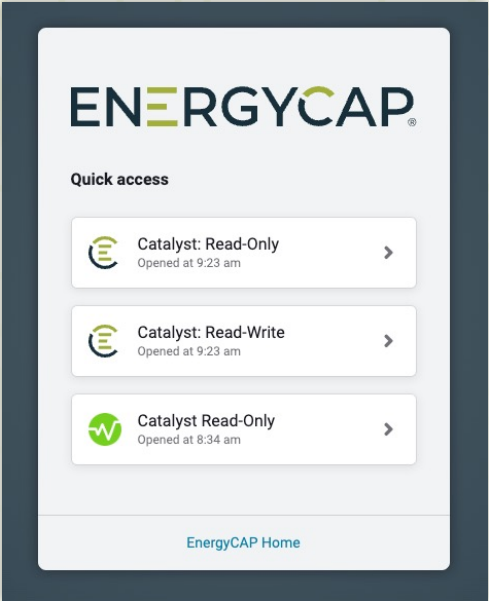
Last 10 years of innovation and solutions

ENERGYCAP.

Bill CAPtureSM



Report Designer BI



EnergyCAP Home

EnergyCAP
Utility Platform



EnergyCAP continues to evolve and improve

Enhanced accounting export

Rollback accounting exports

Global dashboard filter

Additional dashboard widgets

Improved interval data import

Estimated readings on chargebacks

Automatic interval data rollup

Demand charges in chargebacks

Rate schedule versions

Enhanced Setup Spreadsheets

Bulk edit readings

Cost Avoidance (w/ enhancements)

Bill audits

Bill flags

Auto-create SSO users

Bill list enhancements

Bill history pop-out

Custom building benchmarks

Multi-topmost permissions

Automatic meter unit conversion

Bill formats w/ improved flow

ENERGY STAR submission screen

Redesigned ENERGY STAR tools

Improved user creation flow

Bill reversals

Report Distributions

Advanced custom fields

Pending batches

Bill outlier audits and report

User Groups

Common/global unit management

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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:

Utilities/Bill/Resources

Persona:

Finance/energy



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

CAPture Services: Bill CAPture, Bill Processing/Managed Services

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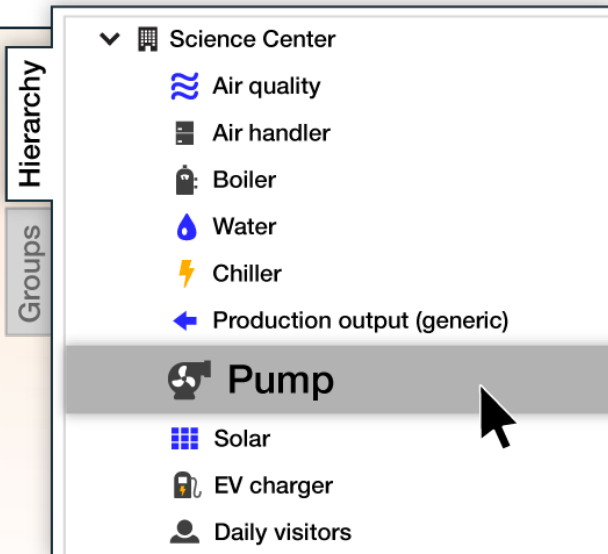
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Energy/facilities



Bill Processing/Managed Services

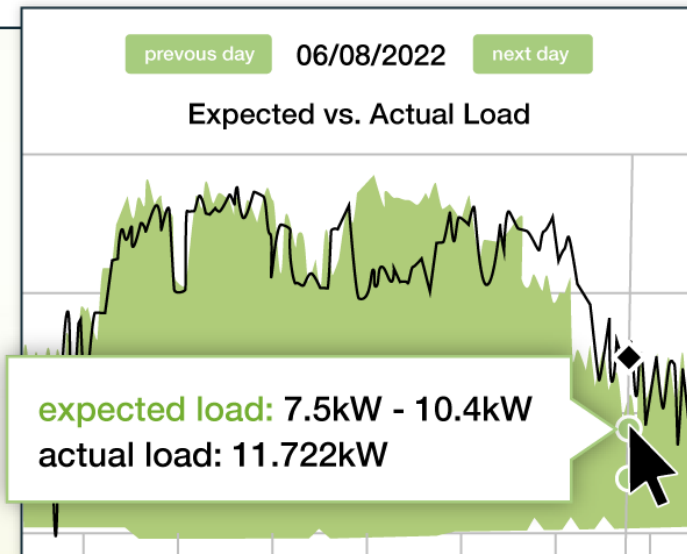
Capture

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



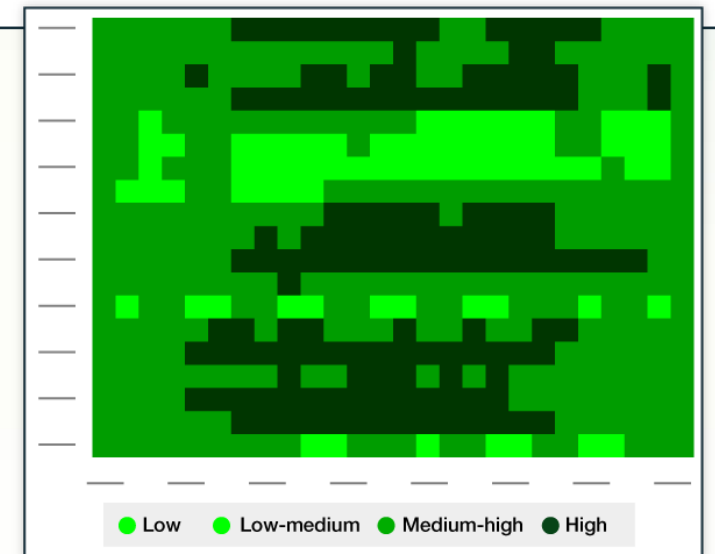
Monitor

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



Analyze

Access robust analysis and reporting functionality.











































Real-time energy and sustainability analytics

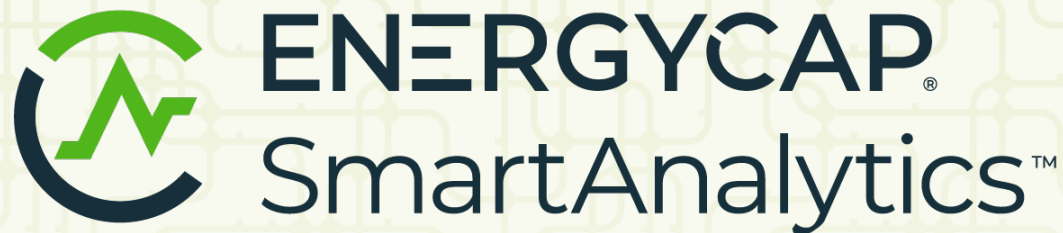
EnergyCAP SmartAnalytics // Real-time energy and sustainability analytics

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 Snapsee 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

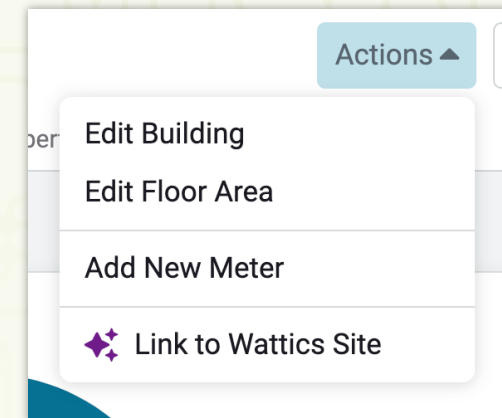
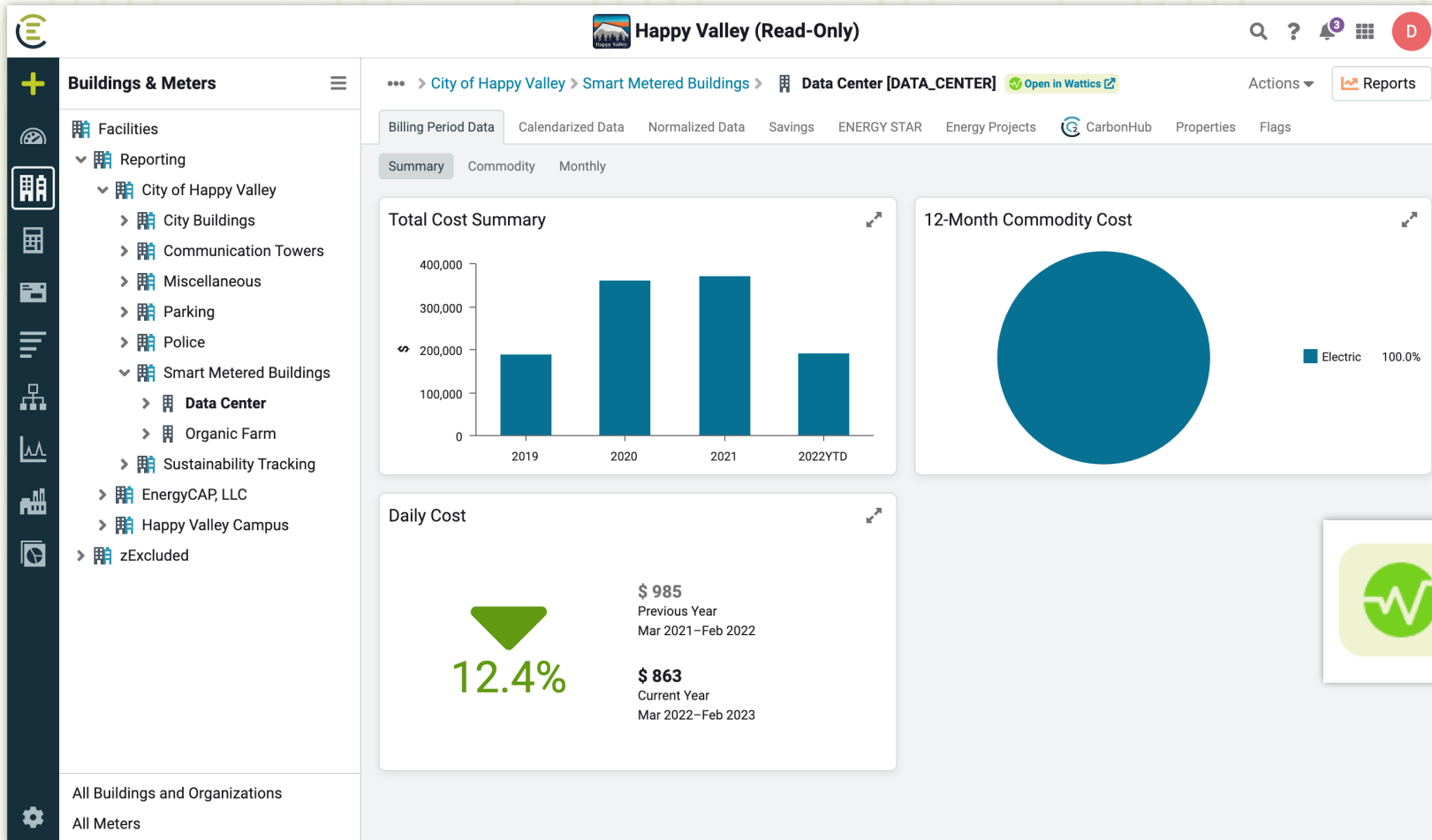


- Connection to devices, sensors, gateways, and systems
- Real-time alerts and alarms
- Sentinel machine learning patterns
- ISO 50001 M&V
- Heatmaps
- Formula-based calculations
- Indoor air quality monitoring
- Tariff analytics
- Load profiling
- Actions tracker
- Scheduling optimization
- Production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

Special Opportunity: 50% platform discount on SmartAnalytics to Catalyst Roadshow attendees

But wait...there's more

Connect EnergyCAP UtilityManagement & SmartAnalytics buildings and meters



Create chargeback bills from EnergyCAP SmartAnalytics 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

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

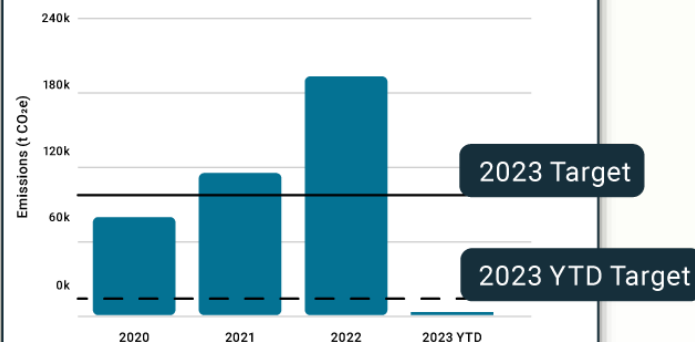
↓6.3%

Jan 2021–Dec 2021
70,215 t CO₂e

Target

Set targets and track performance to your decarbonization goals.

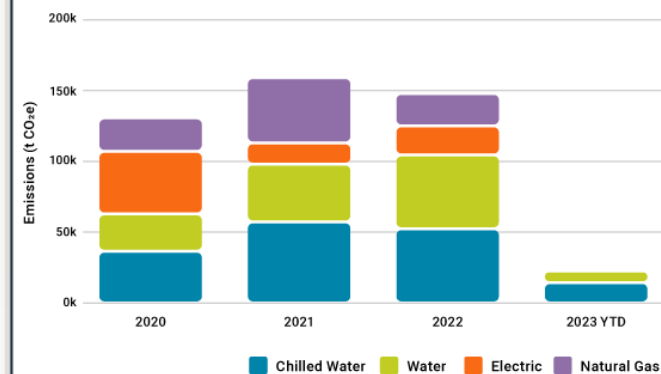
Carbon Footprint - Total Emissions



Report

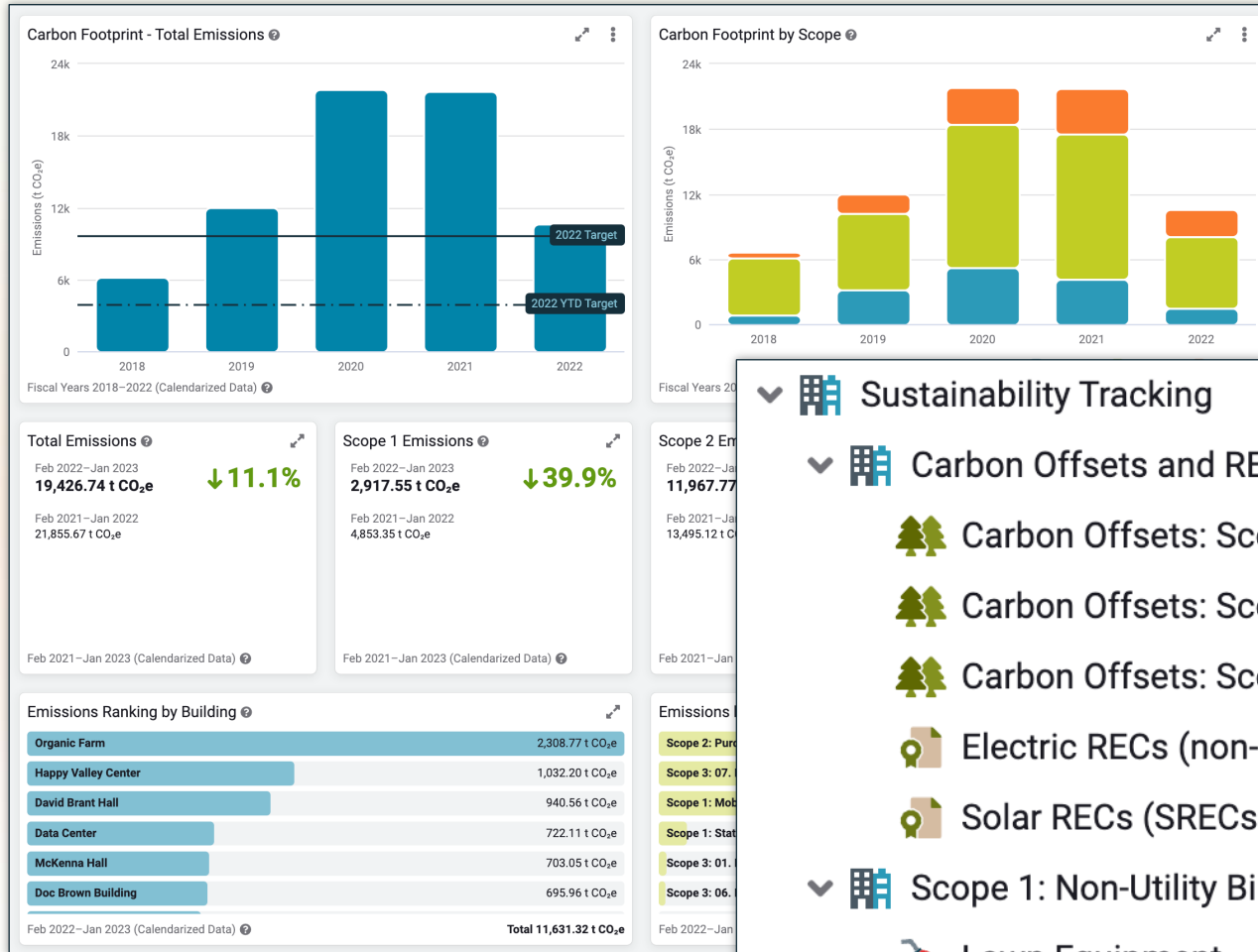
Access robust analysis and GHG reporting functionality.

Carbon Footprint - by Commodity



Financial-grade greenhouse gas accounting

EnergyCAP 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
- Renewable Energy Credits
- and more...

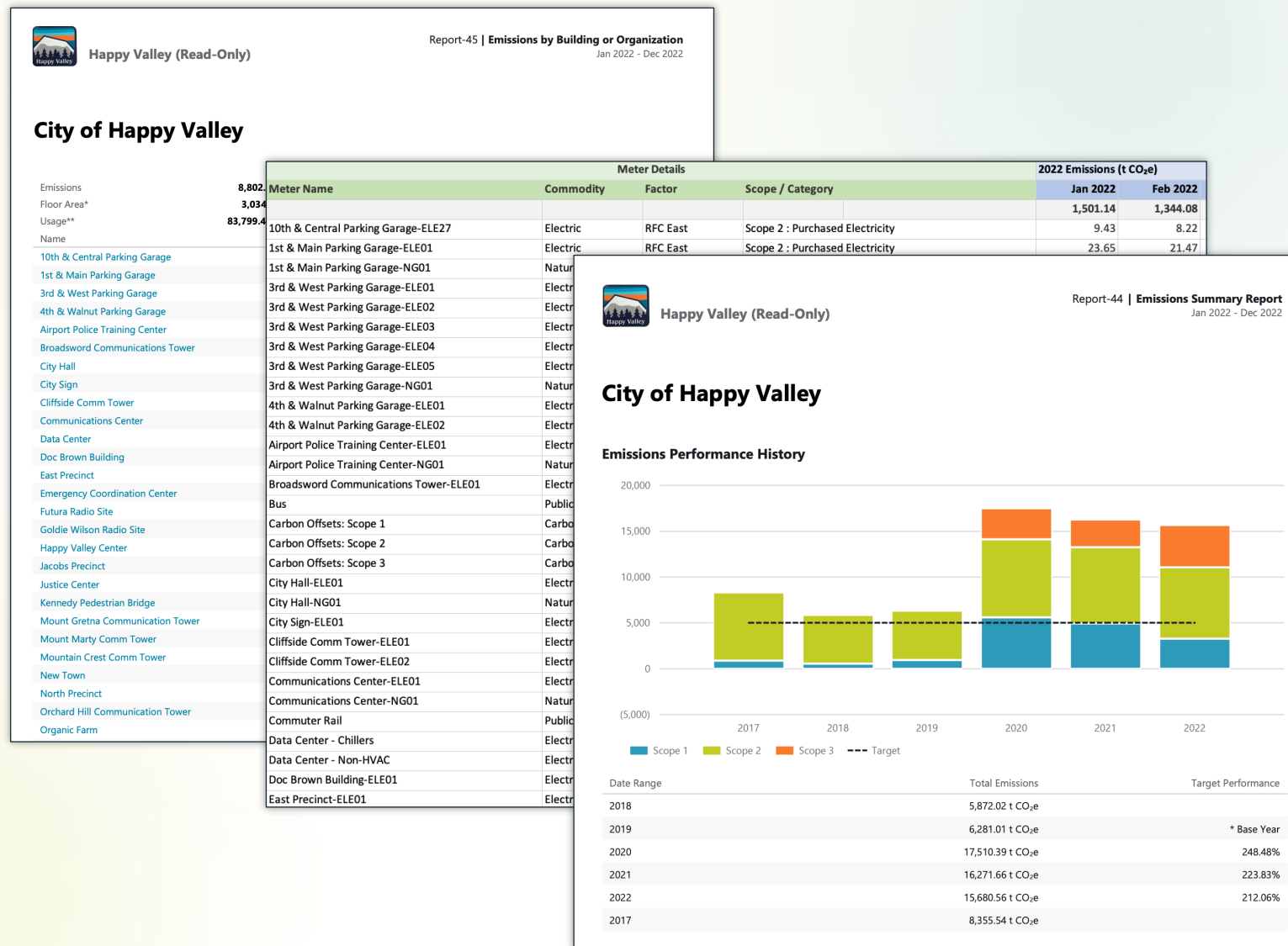
Sustainability Tracking

- Carbon Offsets and RECs**
 - Carbon Offsets: Scope 1
 - Carbon Offsets: Scope 2
 - Carbon Offsets: Scope 3
 - Electric RECs (non-solar)
 - Solar RECs (SRECs)
- Scope 1: Non-Utility Bills**
 - Lawn Equipment
 - Police Fleet

EnergyCAP CarbonHub // Financial-grade carbon reporting tool

Same enterprise-features you expect from EnergyCAP

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





- 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

What's Next?

Big things are coming to CarbonHub on Monday!

The image displays the CarbonHub user interface. On the left is a sidebar with a blue header containing a plus icon and the text 'Emissions Sources'. Below this, there are links for 'All Collections', 'All Emissions Sources', and 'Sustainability Reporting'. A tree view shows the hierarchy: 'City of Happy Valley' (expanded) with sub-items 'Communication Towers', 'Facilities', and 'Non-Utilities' (expanded). Under 'Non-Utilities', there is 'Business Travel' (expanded) with sub-items 'Flights - Long Haul', 'Flights - Medium Haul', 'Flights - Short Haul', 'Rental Cars', 'Carbon Offsets and RECs', 'Employee Commuting' (expanded) with sub-items 'Bus', 'Employee Vehicles', 'Light Rail', 'Fleet' (expanded) with sub-items 'City Vehicles (biodiesel)', 'City Vehicles (gas)', and 'Police Fleet'. The main area shows a 'New Record' form. At the top right of the form are 'Cancel' and 'Save' buttons. The form fields include: 'Emissions source' (dropdown with 'Rental Cars' selected), 'Supplier' (text input with 'Search or add' placeholder), 'Start date' (calendar icon, '01/01/2022'), 'End date' (calendar icon, '01/01/2023'), 'EMISSIONS DETAILS AND CALCULATIONS' section with 'Use', 'Cost', and 'Direct/Offset' tabs ('Use' is active), 'Scope category' (dropdown with 'Scope 3 - 06. Business Travel' selected), 'Factor' (dropdown with 'Passenger Car' selected), 'Quantity' (input '2300'), 'Unit' (dropdown 'mi'), 'Cost' (input '0.00'), and 'Currency' (dropdown 'USD (\$)').

Emissions Sources

- All Collections
- All Emissions Sources
- Sustainability Reporting
 - City of Happy Valley
 - Communication Towers
 - Facilities
 - Non-Utilities
 - Business Travel
 - Flights - Long Haul
 - Flights - Medium Haul
 - Flights - Short Haul
 - Rental Cars
 - Carbon Offsets and RECs
 - Employee Commuting
 - Bus
 - Employee Vehicles
 - Light Rail
 - Fleet
 - City Vehicles (biodiesel)
 - City Vehicles (gas)
 - Police Fleet

New Record [Cancel] [Save]

Emissions source: Rental Cars Supplier: Search or add

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

Factor: Passenger Car

Quantity: 2300 Unit: mi

Cost: 0.00 Currency: USD (\$)

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 Monday in UtilityManagement: Managing units and resources

Commodities and Units

Commodity Status ?

All Add Commodity

Commodity	Rollup unit ?	Type	Description	Conversion ?
Spending-based Emissions		Custom		Not included in energy use reporting
Travel		Custom		Not included in energy use reporting
Air Travel	mi	System		Not included in energy use reporting
Ash		System		Not included in energy use reporting
Biodiesel	gal	System		Not included in energy use reporting
Biomass	MMBtu	System		1 MMBtu x 1 = 1 MMBtu
Butane	MMBtu	System		
Cable	MMBtu	System		
Carbon Offset	kg	System		
Chemical		System		
Chilled Water	ton-hr	System		
Coal	ST	System		
Cogeneration		System		
Compost	ST	System		
Compressed Natural Gas		System		
Diesel Fuel	gal	System		

Data Reporting Settings

Cancel Save

i 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

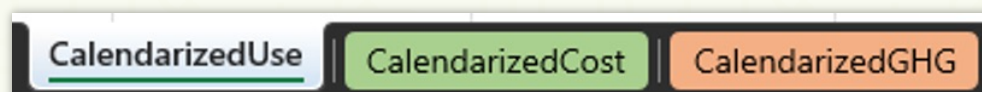
- Easily add new commodities
- Easily add units and manage unit conversions
- Date-effective unit conversions

Have you seen the new ENERGY STAR calendarization report (Report-47)?

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



Continuing to deliver value throughout UtilityManagement!

Enhancing core functionality

- ~~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

We're glad you're here!

Be Curious, Ask Questions, and Share with Others

We want today 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



**Thank YOU for making our
Catalyst Roadshow great!**