

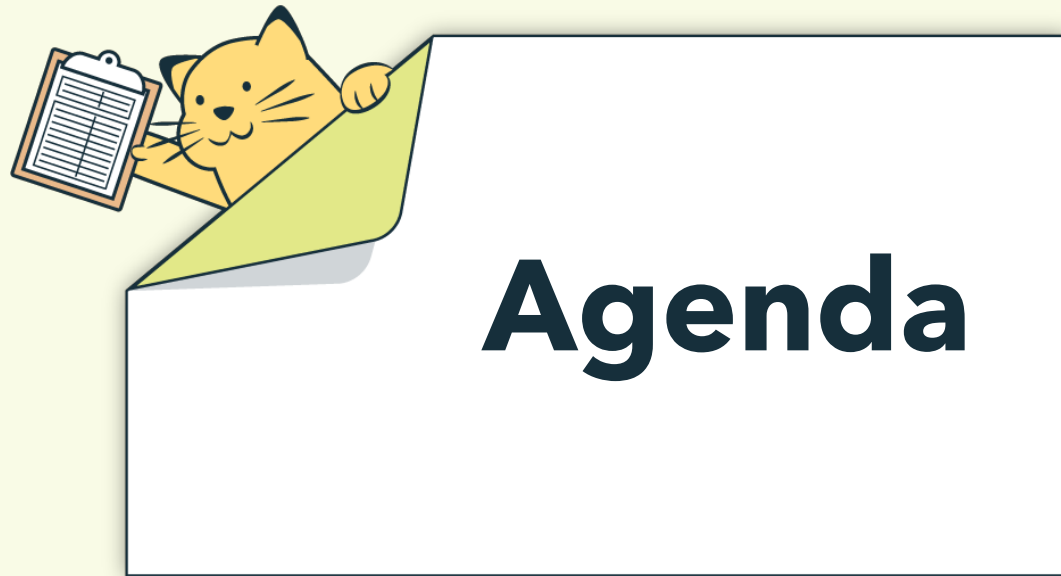
Beginners guide to EnergyCAP



Lalit Agarwal

VP, Energy Management & Sustainability
EnergyCAP

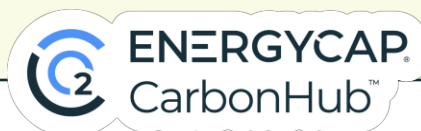




- ✓ Energy & Sustainability ERP
- ✓ EnergyCAP SmartAnalytics (ESA)
- ✓ EnergyCAP UtilityManagement (EUM)
- ✓ Bill CAPture and Managed Services
- ✓ EnergyCAP CarbonHub (ECH)
- ✓ Q&A

EnergyCAP's 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 Data

Persona:

Energy/Facilities

CAPture Services: Bill CAPture, Bill Processing/Managed Services

A single platform for the entire team

The EnergyCAP ERP brings energy, sustainability, and finance teams together to capture, allocate, analyze, and report the data the way they want it.



Energy managers

Operate from one single source of truth with accurate and reliable data. Create, verify, and visualize the energy program you need now.



Sustainability leaders

Automatically convert your data into greenhouse gas emissions and provide a holistic view of sustainability across your organization.



Finance leaders

Get a tool that supports the unique demands of energy accounting. With EnergyCAP, you get a partner that enhances your already-predictable system.

Which role resonates with you?



Energy managers

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Raise your hands if...

You have never logged into any EnergyCAP software.

You have, but only a few times. You may know how it works and what it can do for you.

You have used it many times but for only some of the functionality and are interested in learning more.

You are well-versed in using EnergyCAP solutions but always looking for expert functionality.

You are an expert, and think Lalit should sit down, so you can facilitate this (and other) sessions.

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

EnergyCAP's diverse customer base

Government

City



State/Province



Federal



County/Federal



Education

Public School Districts



Public higher ed/University Systems



Private education



Utility Companies



Commercial

General commercial and retail



Ind/manufacturing



Energy services/consultants



Healthcare



Transportation



Property management/Real estate





SmartAnalytics // Real-time energy and sustainability analytics



Capture

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

Hierarchy

Groups

▼ Science Center

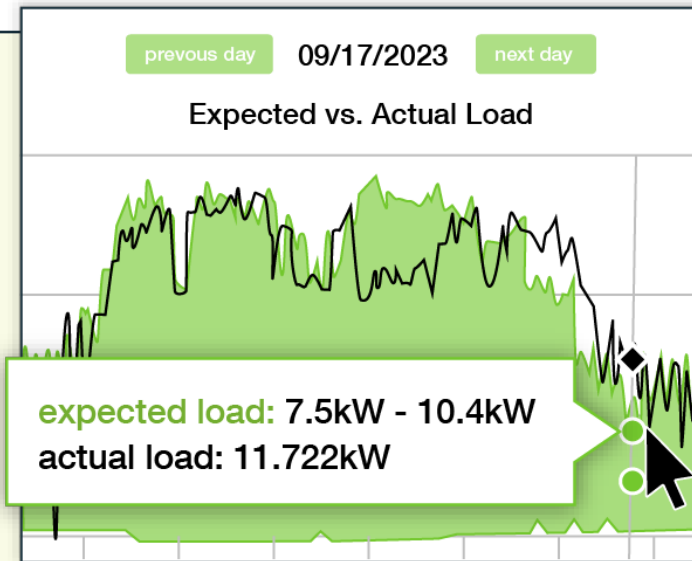
- Air quality
- ⚡ Air handler
- ⚡ Boiler
- ⚡ Water
- ⚡ Chiller
- ⚡ Production output (generic)

Pump

- ⚡ Solar
- ⚡ EV charger
- ⚡ Daily visitors

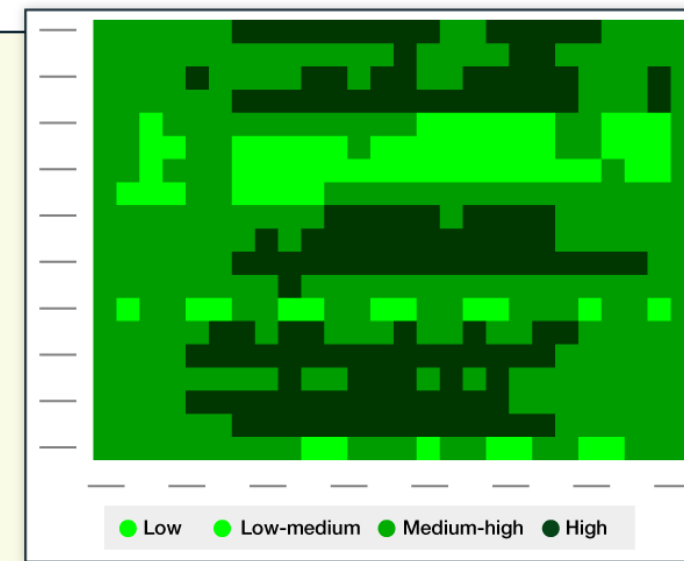
Monitor

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



Analyze

Access robust analysis and reporting functionality.

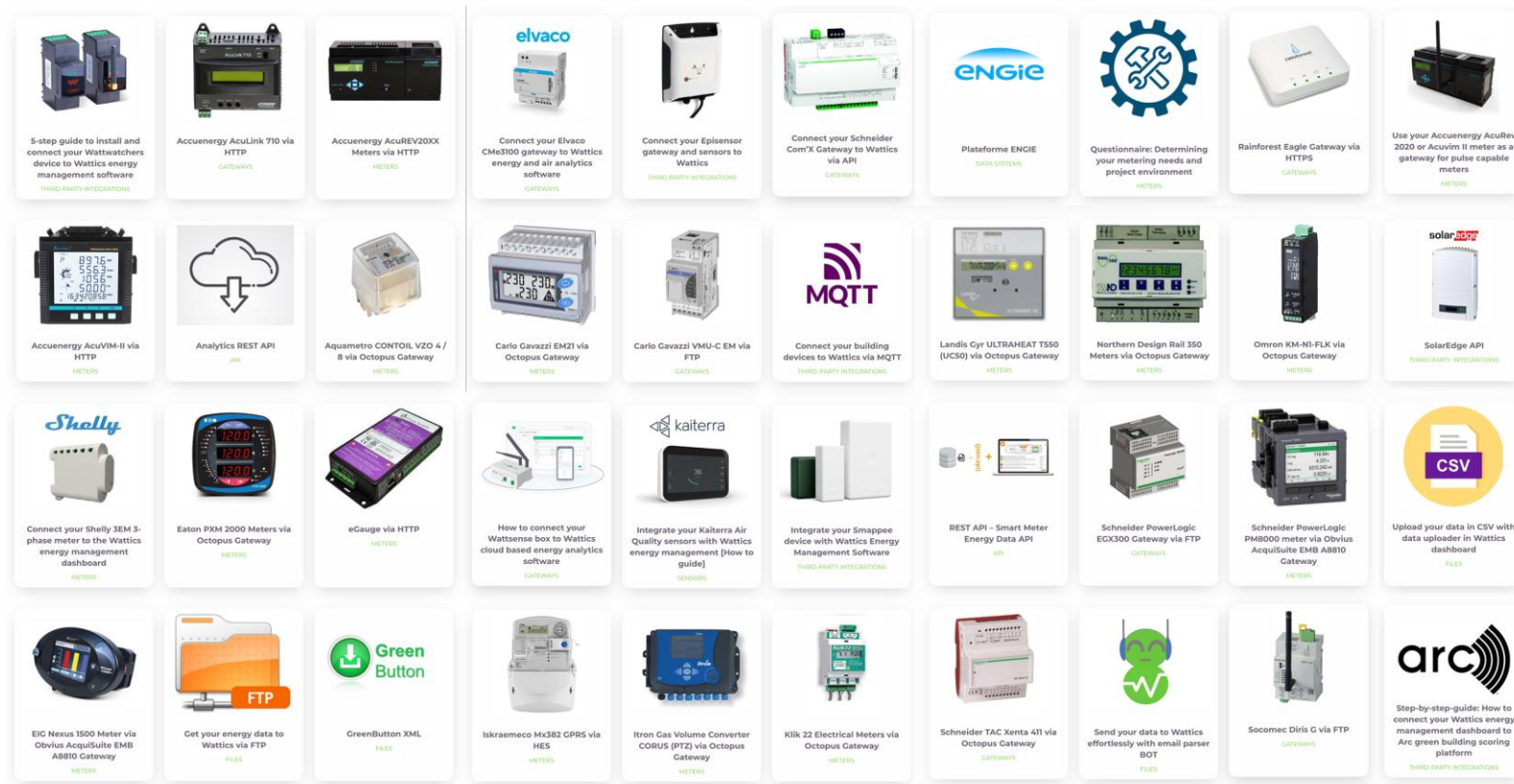


SmartAnalytics // Real-time energy and sustainability analytics

Many integration options/formats

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

Connected devices and systems



SmartAnalytics //Features

- Analyze consumption trends
- Operations wastage analysis
- IPMVP Measurement & Verification-Option B
- Tariff Analytics
- Formula-based calculations
- Machine learning (Sentinel)
- Power quality analysis
- Data management
- Real-time alerts and alarms
- Actions tracker



Real-time energy and sustainability analytics

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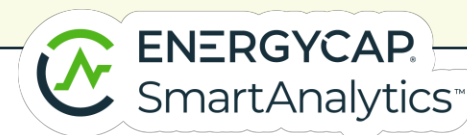
Time-Series/Interval Energy

Persona:

Energy/facilities

SmartAnalytics //Features

- **Analyze consumption trends**
- Operations wastage analysis
- **IPMVP Measurement & Verification-Option B**
- Tariff Analytics
- **Formula-based calculations**
- **Machine learning (Sentinel)**
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Live Demo



UtilityManagement // Features

- Utility Bill Management
- Budgets and Forecasting
- Chargebacks & Tenant Billing
- Accounting integration
- Facility Benchmarking
- ENERGY STAR integration
- Measurement & Verification – Option C
- Account and meter tracking
- Dashboards
- Etc.



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.

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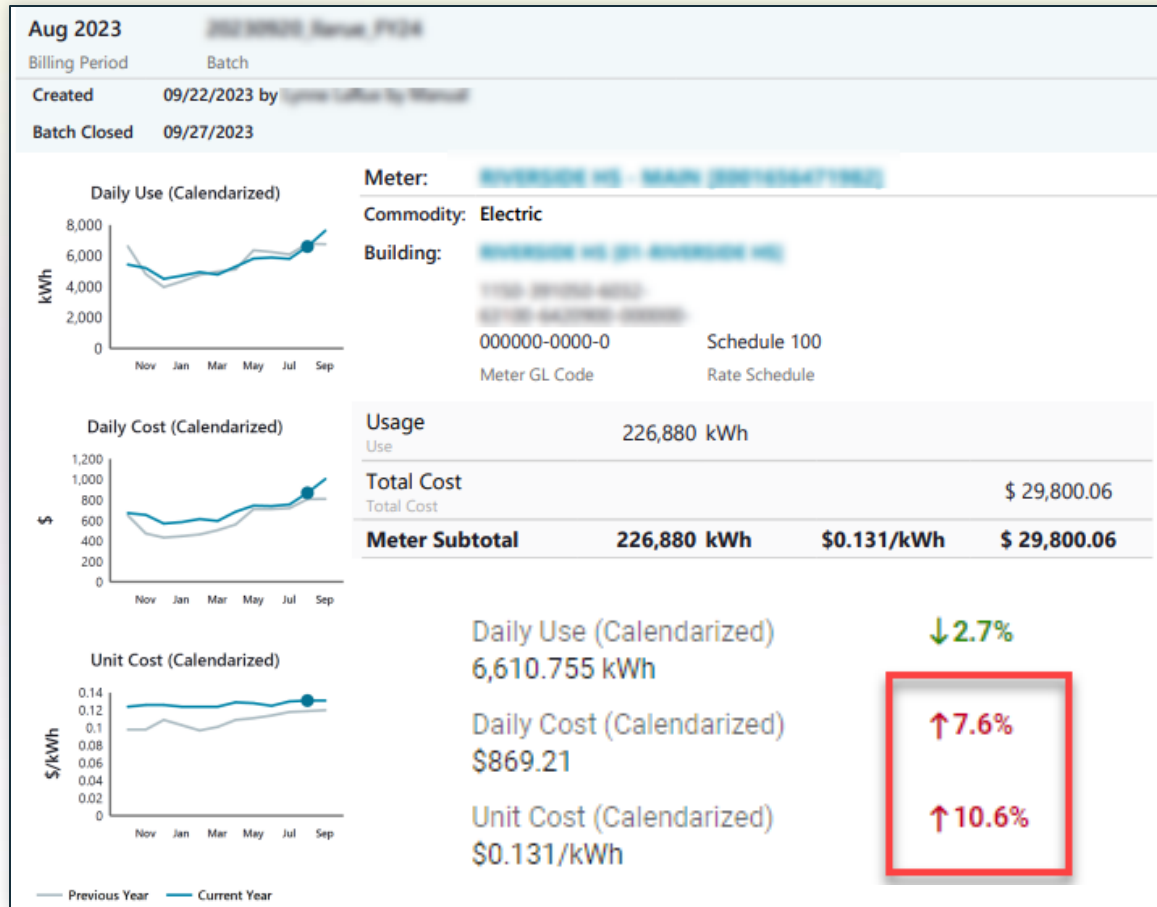
Finance/energy

Live Demo



ENERGYCAP[®]
Bill CAPtureSM

The devil is in the details.



Granularity on bills helps to uncover many issues and answer questions.

- Estimated bills
- Units of measure
- Meter multipliers
- Double-counting use (distribution vs supply)
- Load factor
- Power factor
- Late fees
- Deposits, late fees, and other
- Demand

In this example: Why is cost and blended unit cost high when use is low?

Mistakes happen...

The most common source of savings are billing errors.

Utility companies are not perfect, and mistakes do happen.

All too often, accounting personnel prioritize on-time payment over verifying a bill's accuracy.

1 of 16

bills are flagged
as possible issues

55%

of flagged bills
result in action

35,000+

cases of systemic
estimated bills

~100,000

duplicate bills
have been flagged

Over \$166 million of flagged bills were voided

demonstrating cases where customers found problematic bills and were able to cancel the bills before affecting accounts payable and reporting processes.

Utility bills still have many cost recovery opportunities

The top 3 types of **billing errors** haven't changed in 40 years:



Account ownership – The building changed ownership, but the utility account wasn't updated to the new owner.



Meter multiplier – The wrong multiplier or unit of measure is being used by the utility's billing computer.

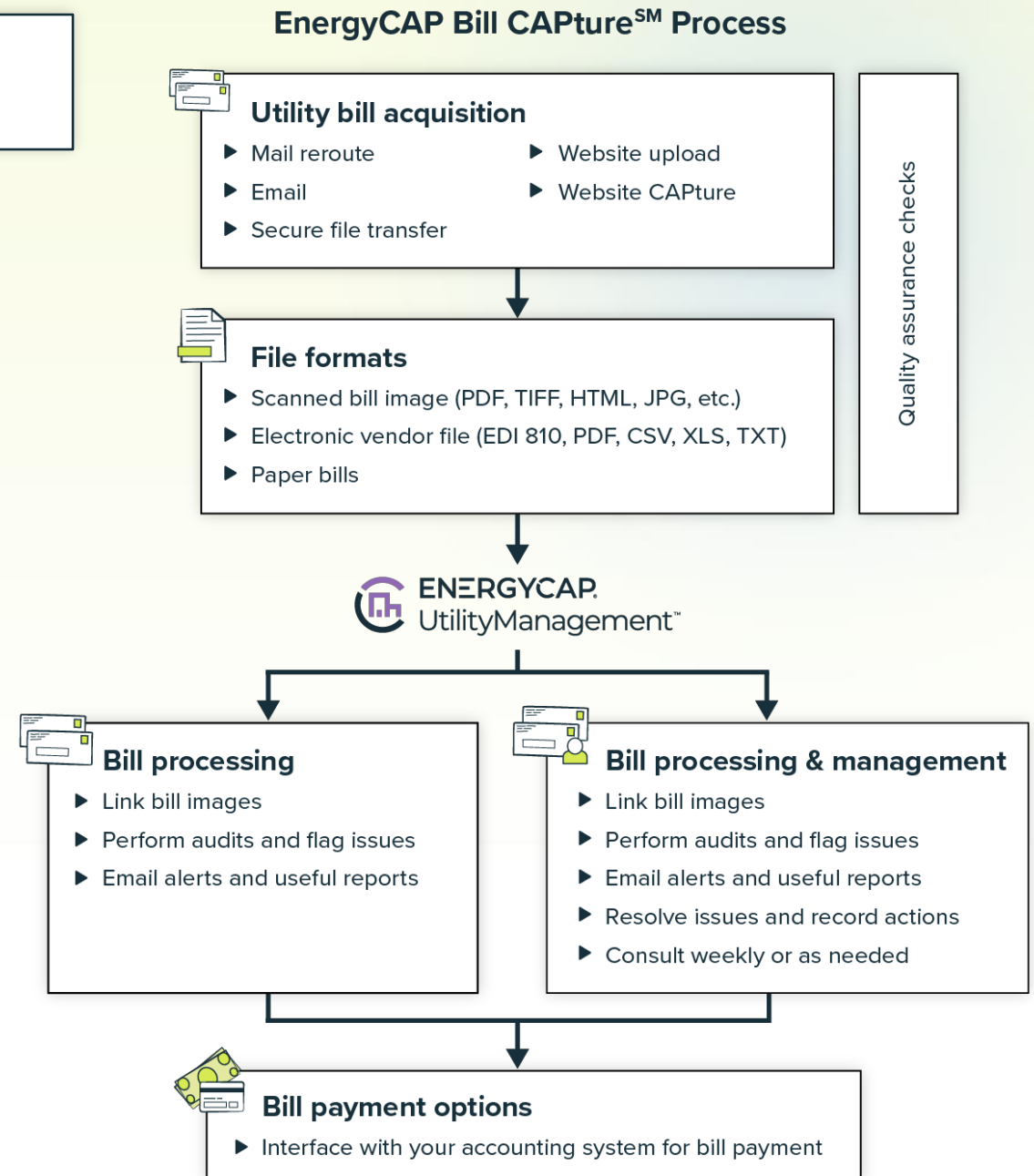


Taxes and fees – An exempt account is charged for taxes and fees.

CAPture Services

Bill CAPtureSM

If manual bill data entry consumes way too many hours of your valuable time, let us do the work for you via Bill CAPture, our specialized utility bill processing services.



Spend your time on things that matter most.

Monitor consumption and costs

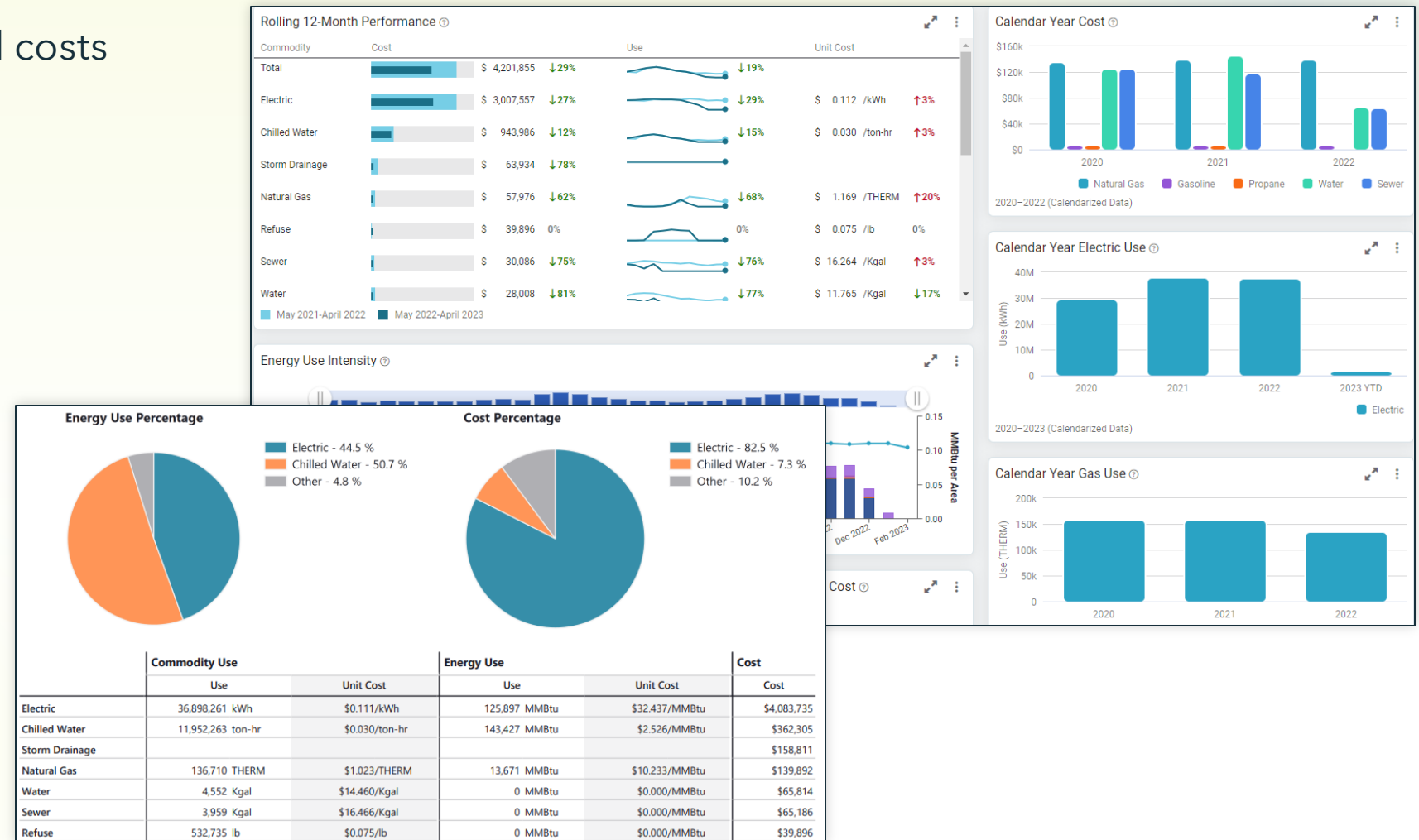
Rate optimization

Energy efficiency projects

Benchmarking

Compliance reporting

Etc.....





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 CO₂e

↓ 12.8%

Scope 2 Emissions

Jan 2023–Dec 2023
78,319 t CO₂e

↑ 8%

Jan 2022–Dec 2022
70,921 t CO₂e

Scope 3 Emissions

Jan 2023–Dec 2023
108,510 t CO₂e

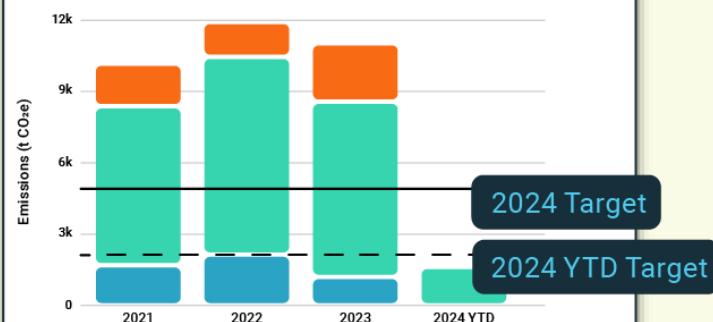
↓ 6.3%

Jan 2022–Dec 2022
70,215 t CO₂e

Target

Set targets and track performance to your decarbonization goals.

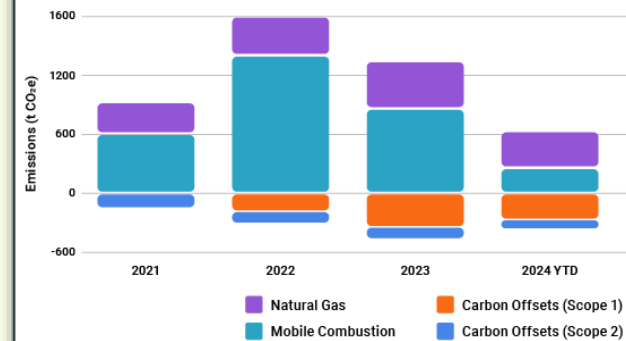
Total Emissions - Last 4 Fiscal Years



Report

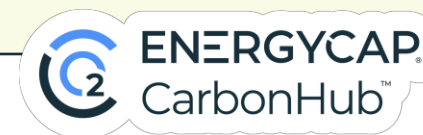
Access robust analysis and GHG reporting functionality.

Scope 1 and 2 GHG Emissions by Category



CarbonHub // Features

- Track Scopes 1, 2 & 3 emissions at intra-building, building and organization level
- Automatic GHG conversions with built in emission factors
- Ability to import market/custom emission factors
- Visualize data easily
- Reports
- Dashboards



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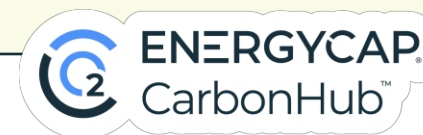
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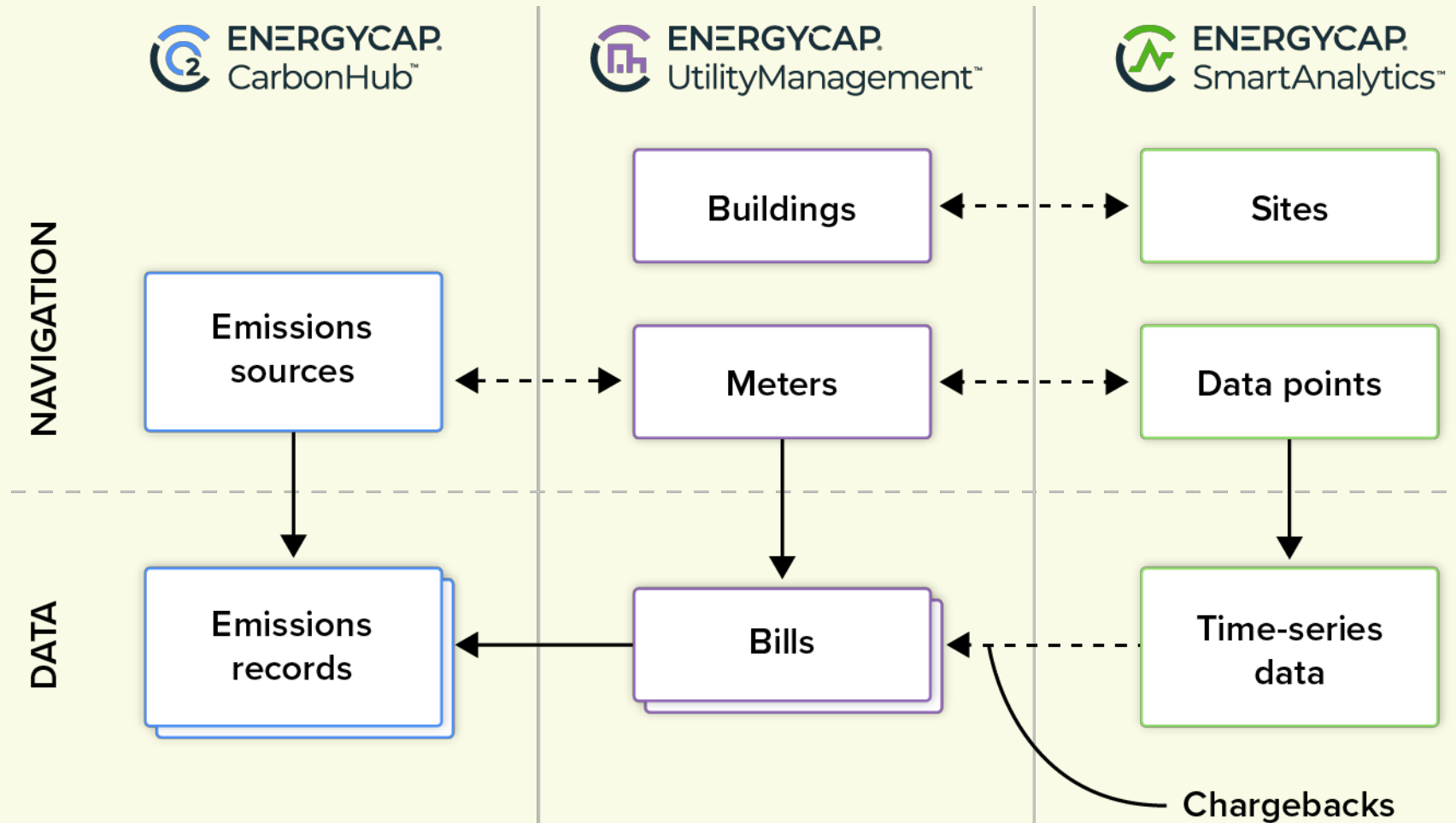
Live Demo



CATALYST '24

Energy & Sustainability ERP

EnergyCAP's Energy and Sustainability ERP // Even more value together



Find help by solution



UtilityManagement



CarbonHub



SmartAnalytics



**Utility Company
Platform**

Questions?



CATALYST '24



Session survey