# What's New with CarbonHub?



**Dave Mosemann**Product Manager
EnergyCAP





- ✓ CarbonHub: A Year in Review
- ✓ New hierarchy
- ✓ New ways to enter emissions data
- ✓ New ways to organize and categorize emissions data
- ✓ New ways to view and analyze emissions data

#### **CarbonHub Milestones**

#### Launch: Feb 2023

- Embedded in UtilityManagement (EnergyCAP) Buildings and Meters module
- Meter GHG settings
- Emissions calculated from bills
- Custom GHG factors
- New powerviews, dashboard widgets and reports for GHG

#### **Standalone: Sep 2023**

- Separate hierarchy (Collections and Emissions Sources)
- More flexible GHG settings factors can change over time
- Improved scope 3 entry
- Manage and organize emissions data with records lists
- Improvements to System and Custom GHG factors
- Create custom types
- Bulk data entry with setup spreadsheets
- Notes and attachments

#### **CarbonHub Milestones**

#### Launch: Feb 2023

- Embedded in UtilityManagement (EnergyCAP) Buildings and Meters module
- Meter GHG settings
- Emissions calculated from bills
- Custom GHG factors
- New powerviews, dashboard widgets and reports for GHG

#### **Standalone: Sep 2023**

- Separate hierarchy (Collections and Emissions Sources)
- More flexible GHG settings factors can change over time
- Improved scope 3 entry
- Manage and organize emissions data with records lists
- Improvements to System and Custom GHG factors
- Create custom types
- Bulk data entry with setup spreadsheets
- Notes and attachments

#### Since Sep 2023

- Share record lists
- New GHG Factors
  - 2023 eGrid
  - Canada Electric
  - 2023 EPA Emissions Hub
  - USEEIO
  - DEFRA
  - Refrigerants
- Support emissions record entered in currency different than factor
- BRAND NEW: Record import formats
- BRAND NEW: CarbonHub in Report Designer Bl

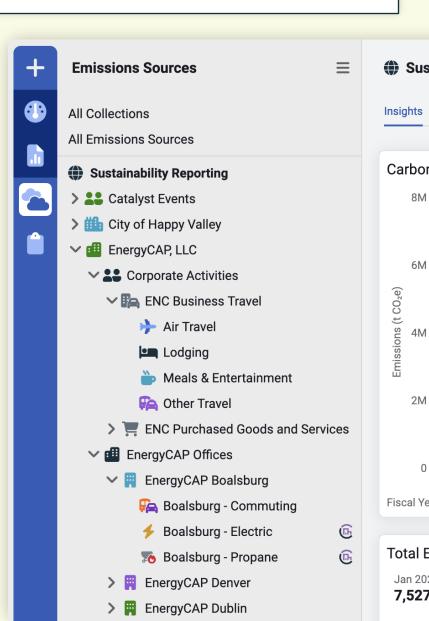
### **New, Separate Hierarchy**

#### **Collections**

• Provide a hierarchy for organizing emissions data independent of facilities or accounting hierarchy in UtilityManagement.

#### **Emissions Sources**

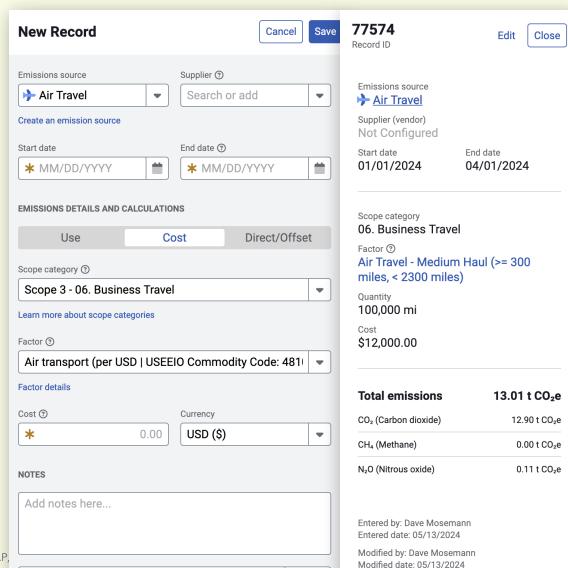
- Contains emission data for a specific resource or activity (electric usage, flights).
- Defines the default scope category and GHG factor for new records.
- Can be linked to UtilityManagement meters to calculate emissions data from bills.



### New ways to enter emissions data

#### **Emissions Records**

 Manually enter emissions data by use, cost or direct, choose a GHG factors and assign a category.



Salaat fila

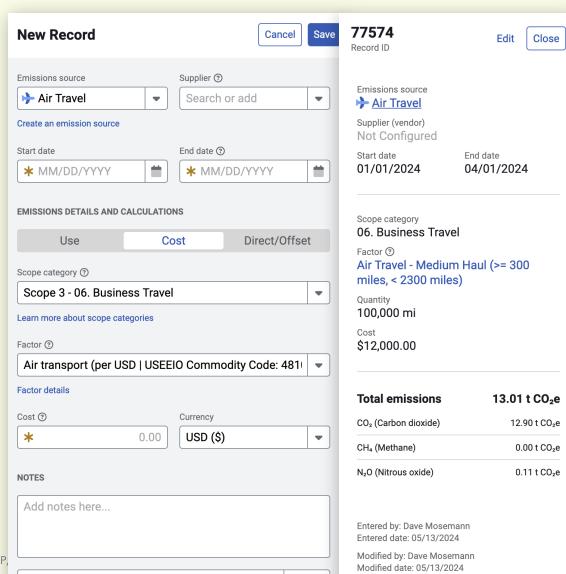
### New ways to enter emissions data

#### **Emissions Records**

 Manually enter emissions data by use, cost or direct, choose a GHG factors and assign a category.

#### **Calculated from UtilityManagement bill**

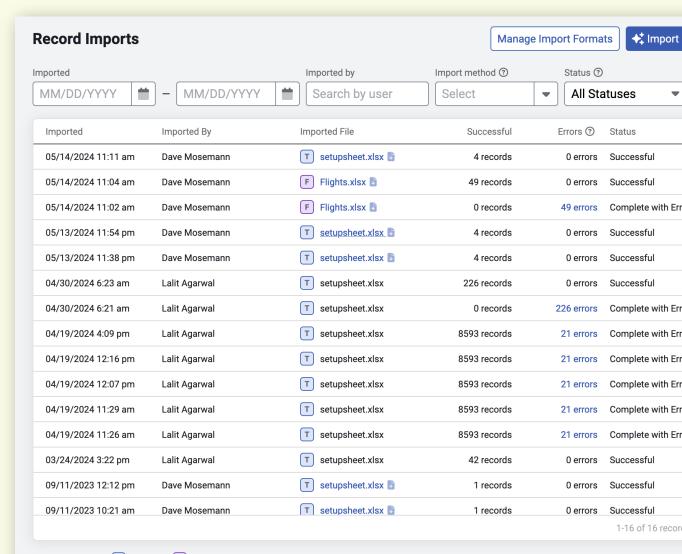
• Bills on meters linked to an emissions source automatically create an emissions record.



### New ways to enter emissions data, continued

#### Import emissions records in bulk

- Use setup spreadsheet templates to create/update many emissions records at onced
- Optionally create emission sources on the fly



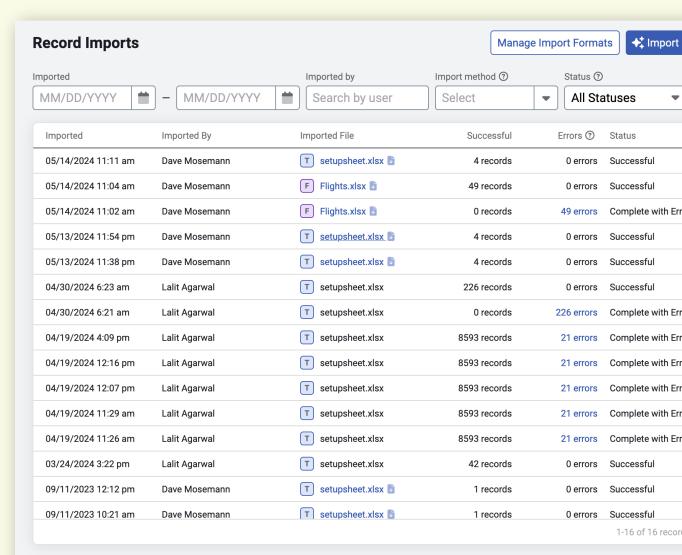
### New ways to enter emissions data, continued

#### Import emissions records in bulk

- Use setup spreadsheet templates to create/update many emissions records at onced
- Optionally create emission sources on the fly

#### Import emissions data from another system

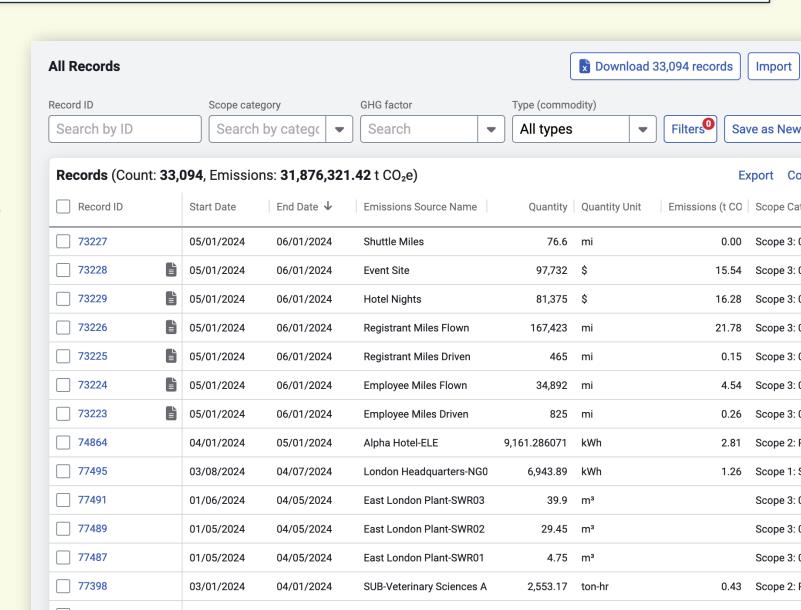
- Use an import formats to import data exported from another system as emissions records
  - Historical records
  - Accounting systems
  - Facility management systems
- Optionally create emission sources on the fly



# New ways to organize and categorize emissions data

#### **Record lists**

- Filter emissions data
  - Date range
  - Collection and emissions source
  - Scope category and GHG factor
  - Type (commodity)
  - Supplier
  - Notes contains
  - Entered by and date
  - and more...
- Save filtered lists to reference later
- Share saved lists



# More flexibility in tracking emissions over time

#### **Cost-based to Use-based**

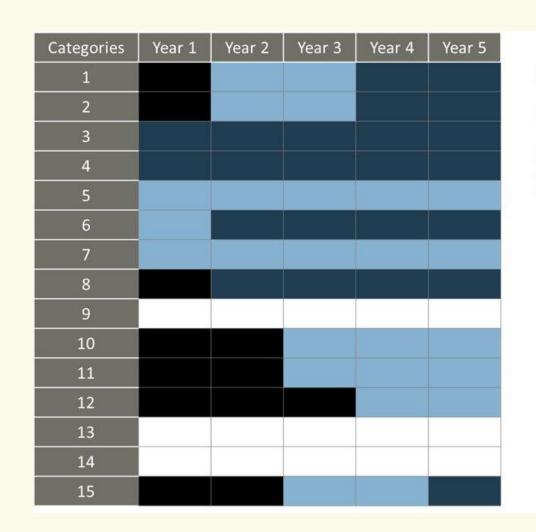
#### **Business Travel**

- Prior to 2024: emission by \$ spent on airfare
- 2024 and beyond: emissions by recorded mileage

#### **Location-based to Market-based**

#### Electricity

- Prior to 2024: RFC east
- 2024 and beyond: PPA (50% wind)



Specific method (e.g. supplier-specific

Average method (e.g. average-data method, spend-based method)

method, fuel-based method)

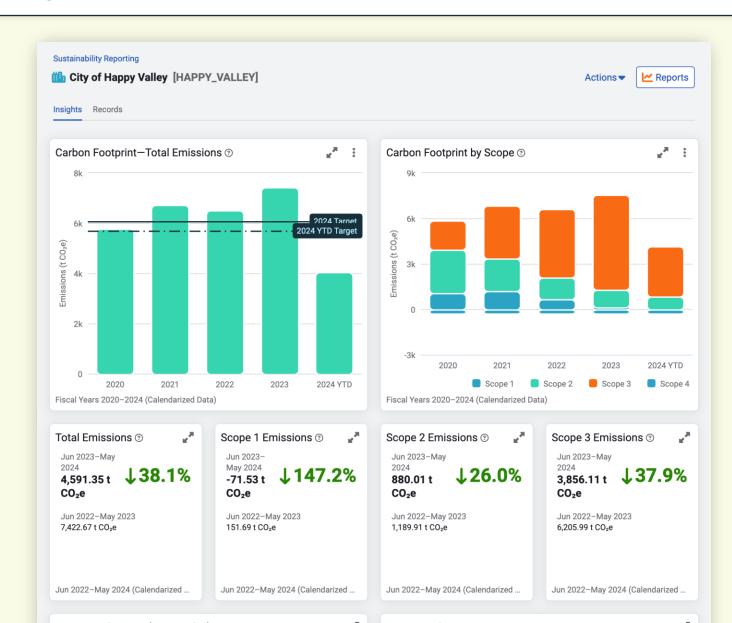
Lack of data, cannot report

Not Relevant

# New ways to view and analyze emissions data

#### Insights

- Understand your emissions data at a glance
- Configured charts for each collection and emissions source



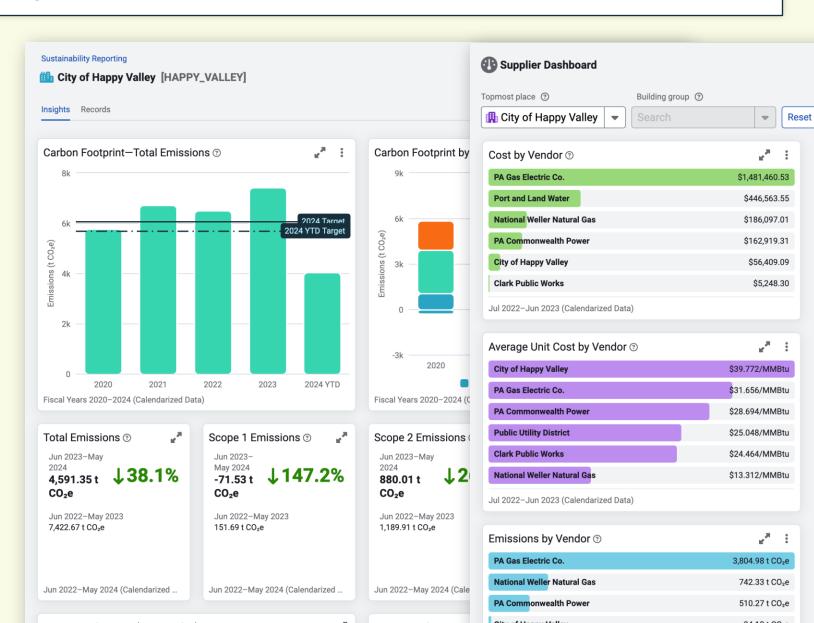
# New ways to view and analyze emissions data

#### **Insights**

- Understand your emissions data at a glance
- Configured charts for each collection and emissions source

#### **Dashboards**

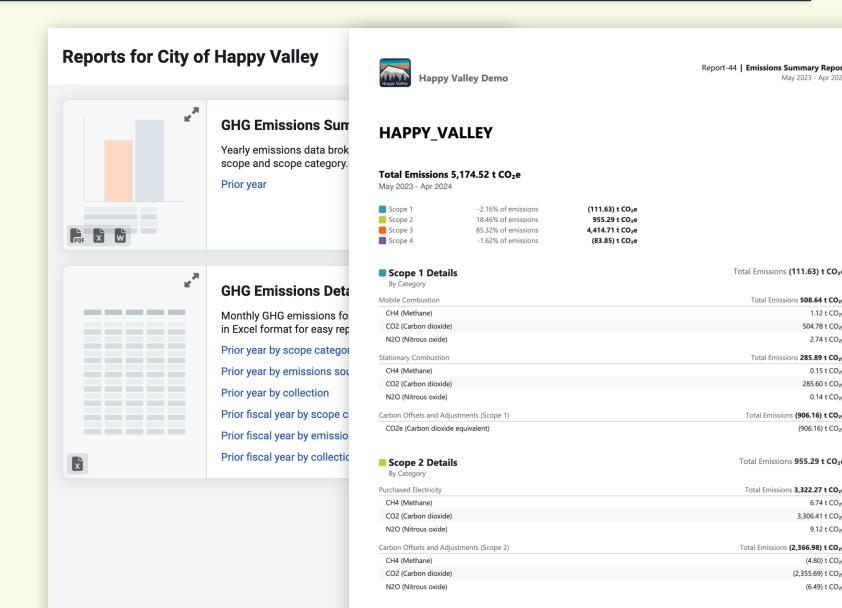
- Dive deeper by configuring your own charts
- Place emissions information next to use and cost information on the same dashboard



### New ways to view and analyze emissions data, continued

#### **Reports**

- Configured reports for each collection
- Configure your own, save and share, schedule for automatic distribution



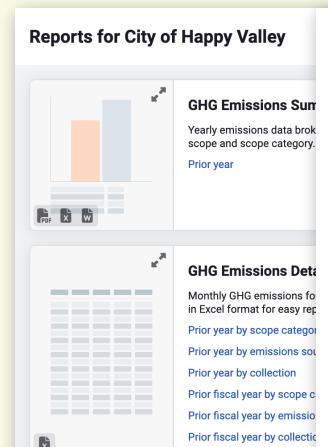
### New ways to view and analyze emissions data, continued

#### **Reports**

- Configured reports for each collection
- Configure your own, save and share, schedule for automatic distribution

#### **Report Designer Bl**

- View emissions data in your favorite business intelligence application
- Check out Dave Ulmer's session "Solving Problems with Report Designer BI" (Thursday @ 10:45am)





Report-44 | Emissions Summary Report

#### HAPPY\_VALLEY

#### Total Emissions 5,174.52 t CO₂e

May 2023 - Apr 2024

(111.63) t CO₂e	-2.16% of emissions	Scope 1
955.29 t CO₂e	18.46% of emissions	Scope 2
4,414.71 t CO₂e	85.32% of emissions	Scope 3
(83.85) t CO₂e	-1.62% of emissions	Scope 4

#### Scope 1 Details

Total Emissions (111.63) t CO<sub>2</sub>

By Category	
Mobile Combustion	Total Emissions 508.64 t CO <sub>2</sub>
CH4 (Methane)	1.12 t CO <sub>2</sub>
CO2 (Carbon dioxide)	504.78 t CO <sub>2</sub>
N2O (Nitrous oxide)	2.74 t CO <sub>2</sub>
Stationary Combustion	Total Emissions 285.89 t CO <sub>2</sub>
CH4 (Methane)	0.15 t CO <sub>2</sub>
CO2 (Carbon dioxide)	285.60 t CO <sub>2</sub>

N2O (Nitrous oxide)
Carbon Offsets and Adjustments (Scope 1)
CO2e (Carbon dioxide equivalent)

Total Emissions (906.16) t CO<sub>2</sub>
(906.16) t CO<sub>2</sub>

#### Scope 2 Details

CO2 (Carbon dioxide

Total Emissions 955.29 t CO<sub>2</sub>

Purchased Electricity	Total Emissions 3,322.27 t
CH4 (Methane)	6.74 t
CO2 (Carbon dioxide)	3,306.41 t
N2O (Nitrous oxide)	9.12 t

Carbon Offsets and Adjustments (Scope 2)
CH4 (Methane)

(4.80) t CO<sub>2</sub>

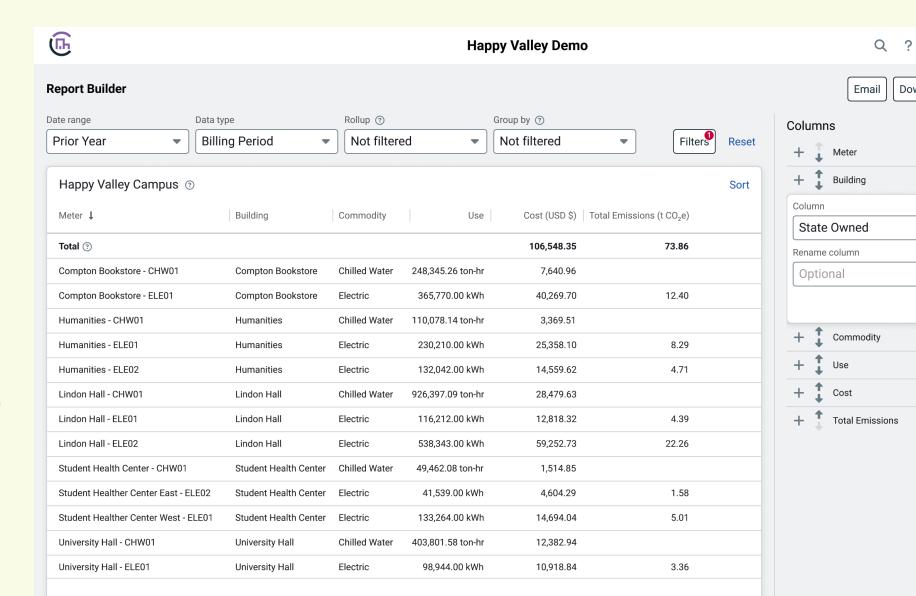
Total Emissions (2,366.98) t CO2

N2O (Nitrous oxide) (6.49) t CO<sub>2</sub>

# New ways to view and analyze emissions data - REPORT BUILDER

# Report Builder - Coming later this year

- Pick and label your own columns
- Combine use, cost and emissions data in a single report
- Include custom fields and GL information
- Save, shared and distribute like standard reports



#### Other Carbon Hub sessions

Thursday at 9 a.m.

Hands on: CarbonHub setup; integrating your UtilityManagement data



**Zac ODonnell**Manager of Product
Development

Thursday at 10:45 a.m.

EnergyCAP 101:
CarbonHub for beginners



Lalit Agarwal
VP, Energy Management
& Sustainability
EnergyCAP

# Questions?

# CATALYST'24



Session survey