CarbonHub Set Up: Integrating your UtilityManagement Data



Zac O'Donnell

Manager of Product Development





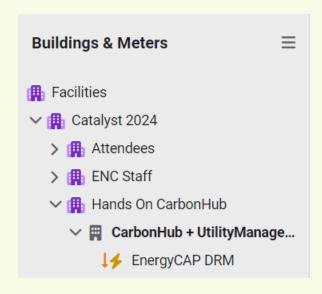
- ✓ Add a Meter and Account in UtilityManagement
- ✓ Link Meter to new Emissions Source
- ✓ Add bill and generate emissions record
- ✓ Add a record in Carbon Hub
- ✓ Reporting emissions in UtilityManagement and CarbonHub
- ✓ Going Deeper Extra Coolness

Let's get started!

1. Log in to Catalyst 2024: Read-Write (UtilityManagement)

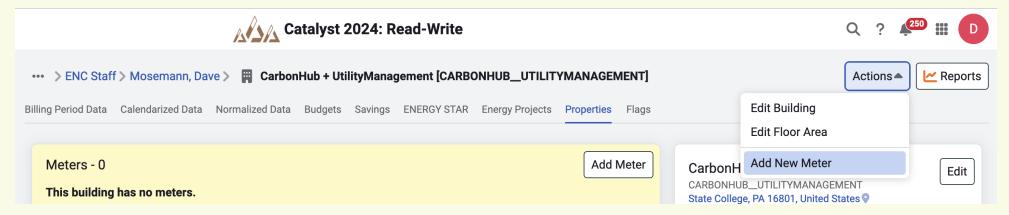


- 2. Go to Building & Meters module
- 3. Find your way to the CarbonHub + UtilityManagement Building under
 - 1. Catalyst 2024
 - 2. Hands On Carbon Hub



Add Electric Meter in UtilityManagement

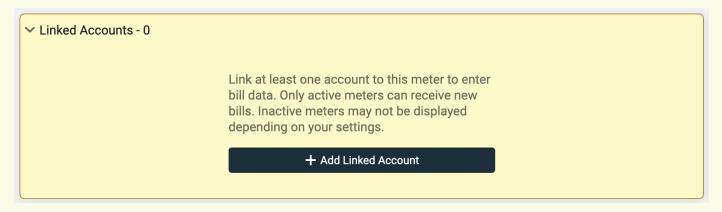
1. From the actions menu, select **Add New Meter**



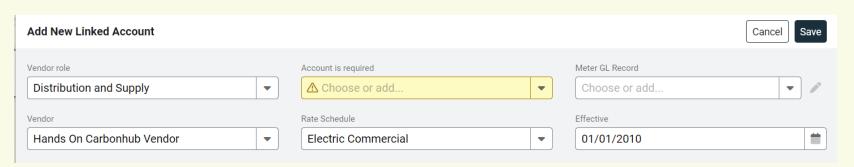
- 2. Set the following
 - **1. Commodity** = Electric
 - 2. Name = <Your Organization> <Your Initials>-ELE (example: EnergyCAP ZRO-ELE)
 - 3. Code = <YOUR ORGANIZATION>_<YOUR INITIALS>-ELE (example: ENERGYCAP_ZRO-ELE)
- 3. Click Save

Link Meter to an Account

1. From the Properties tab, click **Add Linked Account** button

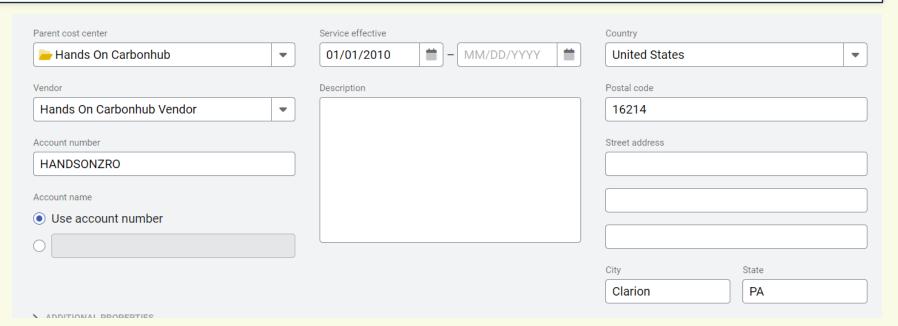


- 2. Set the following
 - 1. Vendor = Hands On Carbonhub Vendor (type to search)
 - 2. Rate Schedule = Electric Commercial
 - Account = Add New...



Link Meter to an Account - Add Account

1. Add a new Account

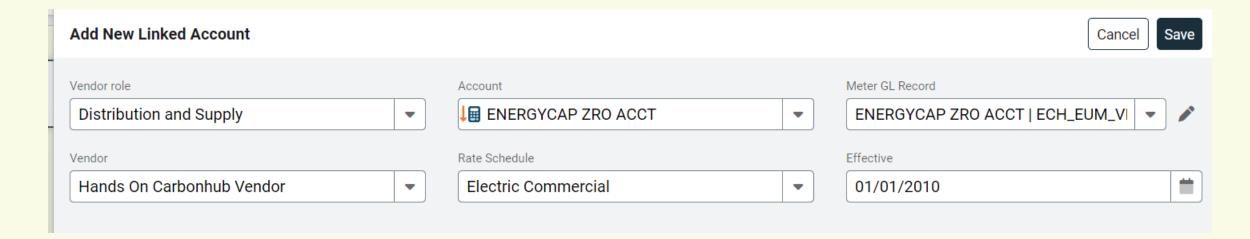


- 2. Set the following
 - 1. Account number = <Your Organization> <Your Initials>-ACCT (example: EnergyCAP ZRO-ACCT)
 - 2. Postal code = Your choice
- 3. Click Save

Link Meter to an Account - Wrap up

Account added - time to save the link

Click save



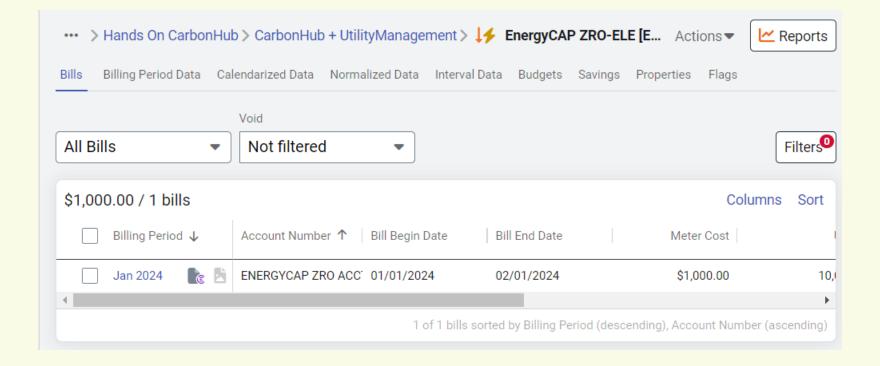
Enter a Bill

1. From the Meter Actions Menu, click Enter New Bill



- 2. Click the linked account
- 3. Click **Open** to open a new batch if prompted (you may not if you already have on open)
- 4. Enter the following
 - 1. Start = 1/1/2024
 - **2.** Days = 31
 - **3.** Amount due = \$1000
 - **4.** Usage = 10000
 - **5. Total Cost** = \$1000
 - 6. Click Save

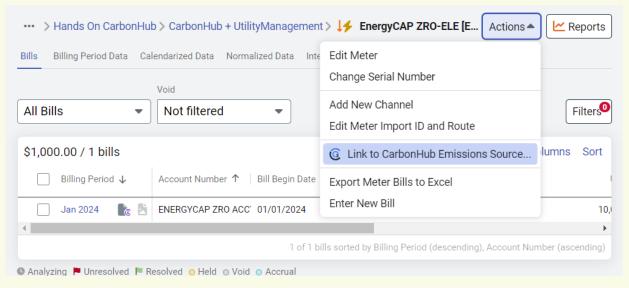
Enter a Bill



Ok, Cool, Bills in Utility Management. I've seen this before

Link Meter to an Emissions Source

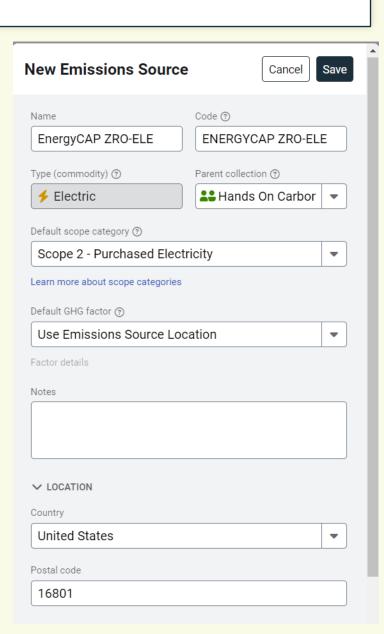
1. From the Meter's action menu, click **Link to CarbonHub Emissions Source**



2. Click Add New...

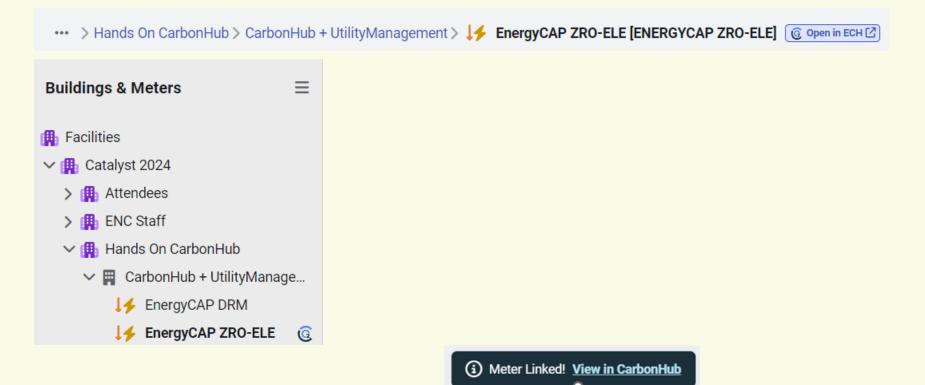
Link Meter to an Emissions Source

- 1. You need to provide only the parent collection where to place it.
 - 1. Choose "Hands On Carbonhub"
- 2. Emissions source automatically gets location based on meter
 - 1. You'll want to make sure your meters are in the right location before doing this
- 3. Emission source automatically picks the default factor for the commodity
 - 1. In this case Electric has a special option "Use Emissions Source Location"



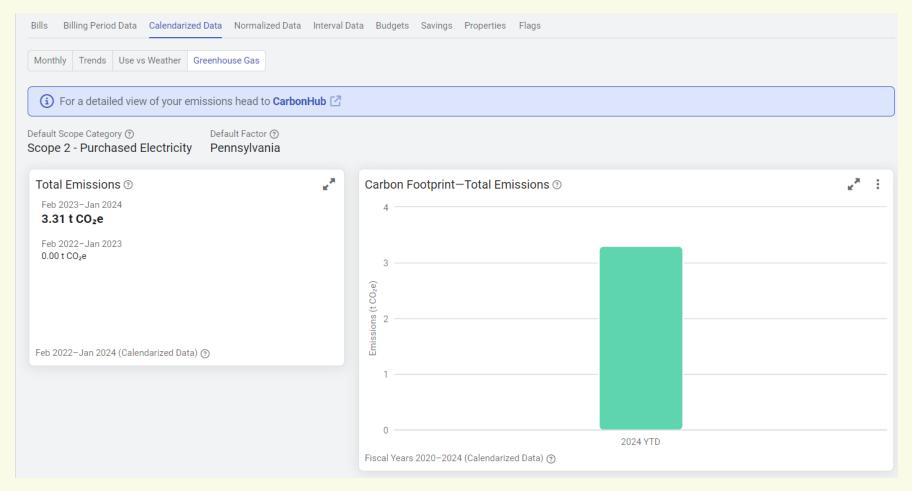
Link Meter to an Emissions Source

- 1. Click Save
- 2. Your meter and emissions source are now linked!



Bills on Meters linked to Emissions Sources generate Emissions Records

1. Go to Calendarized > Greenhouse Gas tab



Wait, All I have to do is link it and emissions are being tracked?

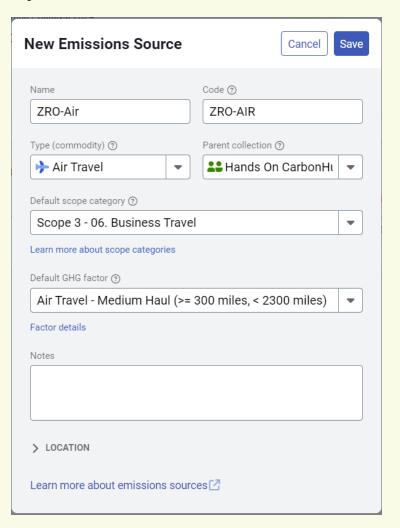
Linked records allow editing some fields, and react to bill updates too

- 1. Go to **Records** tab
- 2. Click on link in **Record ID** column to view record details
- 3. Change factor to RFC East or RFC West
 - 1. If you are using Pennsylvania like me, you'll find RFC East is the same value right now so numbers won't change
- 4. See changes emissions total in **Insights** tab
- 5. Go back to UtilityManagement to see update emissions in Calendarized > Greenhouse Gas tab
- Go to bills list and click on bill
- 7. Edit bill to see updated emissions in UtilityManagement and CarbonHub
 - 1. Changing use will change emissions data where cost will have no effect because factor is use-based.
- 8. Void or delete the bill the emission record will be removed

No matter how bills get onto a meter that is linked, emission records will be created to match

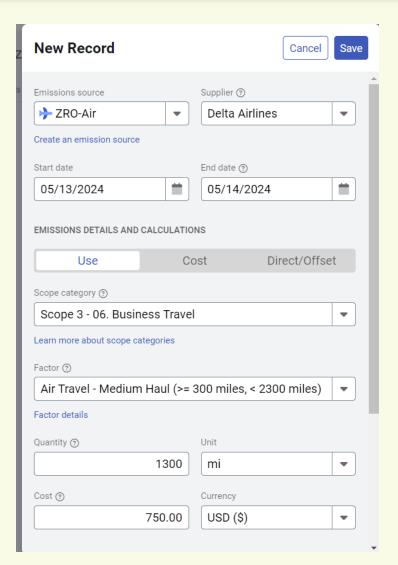
Add an Emissions Source not linked to UtilityManagement

- 1. Go to CarbonHub, open **Hands On Carbonhub** collection under Catalyst 2024
- 2. From the Actions menu, click **New Emissions Source**
- 3. Set the following
 - 1. Name = <initials>-AIR
 - 2. Type = Air Travel
 - 3. Switch to Cost
 - 4. Scope Category = Business Travel (defaulted)
 - 5. Factor = Air Travel Medium Haul (defaulted)
- 4. Click Save



Add an Emissions Record to match

- 1. Supplier = Delta Airlines
- 2. Start and End Dates (I picked Monday)
- 3. Scope Category and Factor are provided by default matching the emissions source
 - 1. This factor is usage-based (mileage) so we are doing a Use type
- 4. Provide Quantity (required) and Cost (not required)



Note the new record with calculated emissions



From the parent organization/collection. Do you see what's different?

CarbonHub

Total Emissions ③

Feb 2023-Jan 2024

4.88 t CO₂e

Feb 2022-Jan 2023
0.00 t CO₂e

Feb 2022-Jan 2024 (Calendarized Data) (?)

Scope 1 Emissions 3

No Data Returned Scope 2 Emissions 3

Feb 2023-Jan 2024 4.77 t CO₂e

Feb 2022-Jan 2023 0.00 t CO₂e

Feb 2022-Jan 2024 (Calendarized Data) ③

Scope 3 Emissions 3

Feb 2023-Jan 2024

0.10 t CO₂e

Feb 2022-Jan 2023 0.00 t CO₂e

Feb 2022-Jan 2024 (Calendarized Data) (?)

Utility Management

Total Emissions ③

Feb 2023-Jan 2024

4.77 t CO₂e

Feb 2022-Jan 2023
0.00 t CO₂e

Feb 2022-Jan 2024 (Calendarized Data) ③

Scope 1 Emissions 3

No Data Returned Scope 2 Emissions 3

Feb 2023-Jan 2024

4.77 t CO₂e

Feb 2022-Jan 2023 0.00 t CO₂e

Feb 2022-Jan 2024 (Calendarized Data) ③

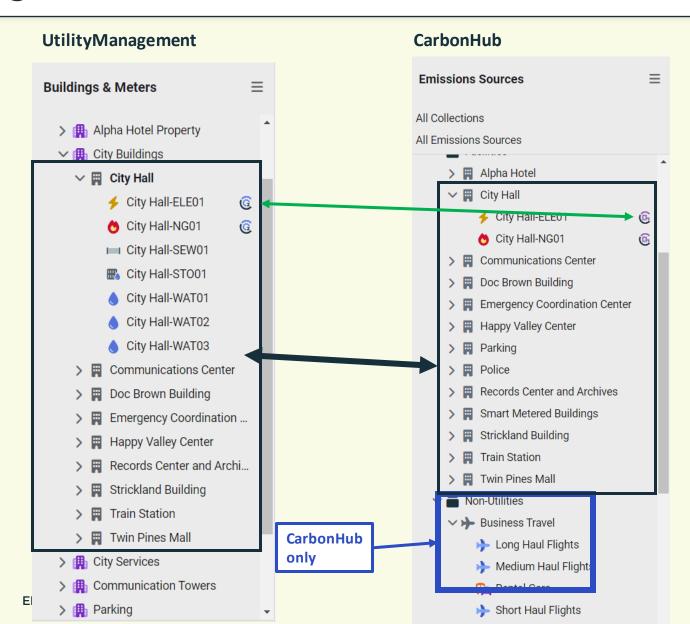
Scope 3 Emissions 3

No Data Returned

Emissions data in UtilityManagement

Only emissions data from emissions sources linked to meters will appear in UtilityManagement powerviews

CarbonHub powerviews include both linked and unlinked emissions data



Linking a meter to an emissions source is not required, but it depends on how you plan to report the emissions

(This is how far we got in the live session. What remains is additional content not presented in person)

Emissions data in UtilityManagement - Dashboards

Dashboard widgets that do not have a collection or emissions source filter will only show emissions data linked to meters

- 1. Bar rank
- 2. Place Performance Comparison
- 3. Trend Chart
- 4. KPI

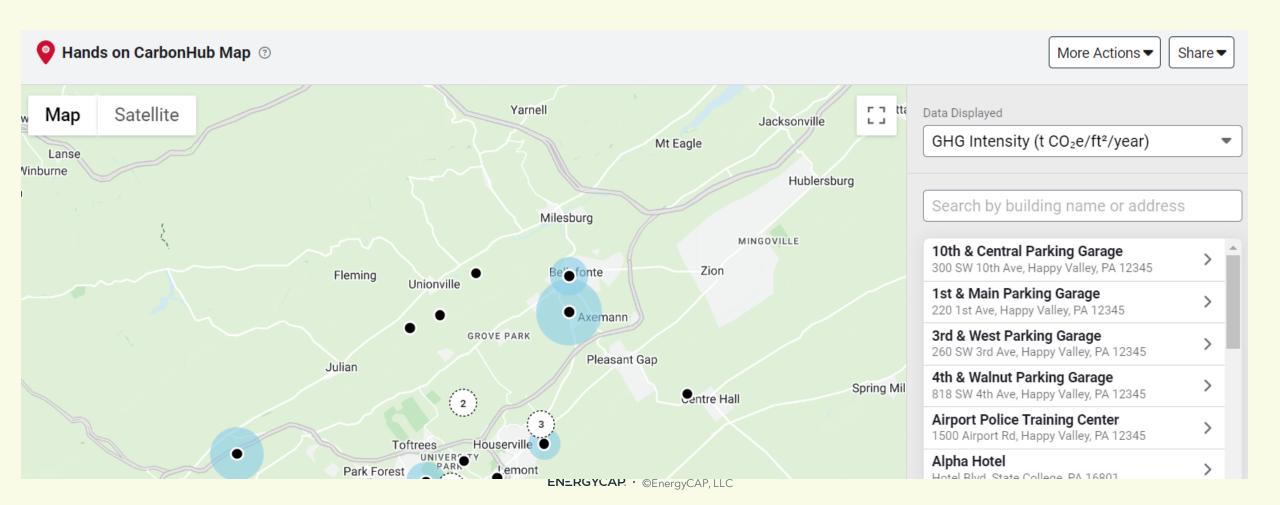
Comparable CarbonHub widgets that contain linked and unlinked emissions data

- 1. GHG Rankings
- 2. Greenhouse Gas Performance
- 3. Carbon Footprint
- 4. Greenhouse Gas KPI

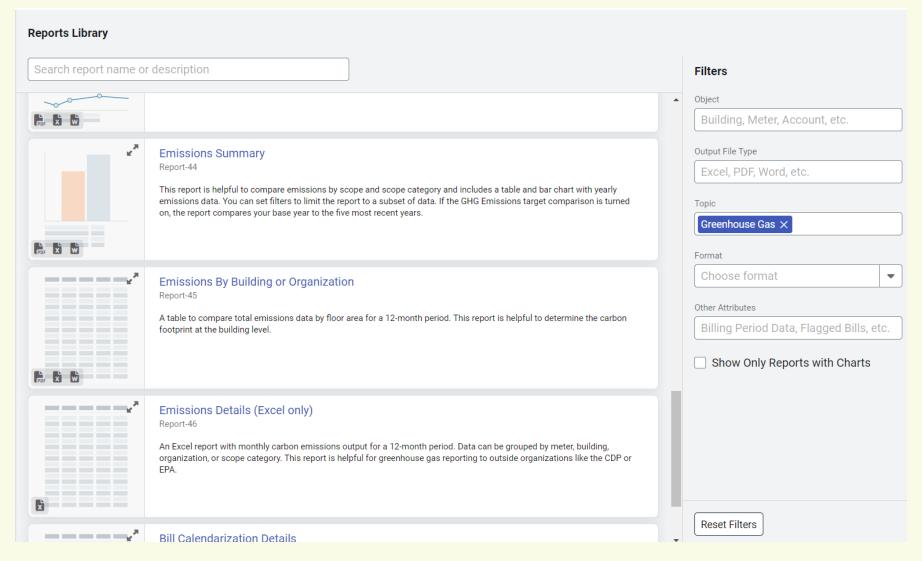
You can combine CarbonHub and UtilityManagement data in a single dashboard

Emissions data in UtilityManagement - Maps

Maps only show data linked to meters that are on buildings
Use GHG Intensity option in the sidebar to see GHG instead of Use or Cost intensity



Emissions data in UtilityManagement - Reports



Emissions data in UtilityManagement - Reports

Reports that do not have a collection or emissions source filter, will only show emissions data linked to meters

- 1. Report-01 Year over Year Comparison
- 2. Report-45 Emissions by Building or Organization

CarbonHub specific reports will show both linked and unlinked

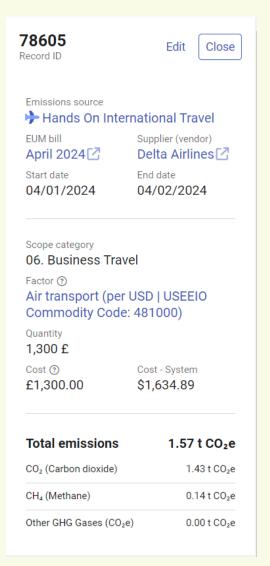
- 1. Report-44 Emissions Summary
- 2. Report-46 Emissions Details
- 3. Report-47 Bill Calendarization

Usage based emissions are cool, but sometimes I don't have that. Help!

Going Deeper

- 1. Cost-based bills creating emissions records
- 2. Finding the right Factor
 - 1. Advanced search
 - 2. Use unit type to your advantage
 - 3. Tons of options
- 3. Currency and Unit Conversion





Questions?





Session survey