



Association of Independent Colleges and Universities of Pennsylvania

Successful Decarbonization takes 6 Steps: Are you missing one?

Wednesday, April 3, 2024



Agenda

Introductions

Opportunities for a Sustainable Campus

6 Key Steps to Decarbonization

Funding Optionality

Q&A

Constellation Navigator Team



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Opportunities for a Sustainable Campus

In an environment with declining collegiate enrollment, sustainability is playing an even greater role than ever in the prospective students' decision-making process.

New Study Finds 30% of Students Consider Sustainability in College Selection



How Do Campus Sustainability Initiatives Affect College Admissions?



Colleges' Actions on Sustainability are a Draw for Students



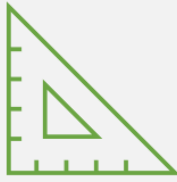
Prospective students “actively researching” sustainability strategies



Making academia environmentally sustainable: a student perspective



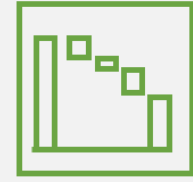
Six Key Steps to Decarbonization



1.
Establish
Baseline
Footprint



2.
Set Emissions
Reduction
Targets



3.
Scenario
Analysis &
Planning

4.
Marginal
Abatement
Model



5.
Fulfillment of
Renewable &
Sustainability
Initiatives



6.
Standardized
Reporting (e.g.,
CDP, GRI, etc.)



Start with a Baseline to get a clear view of your current state.

Challenges

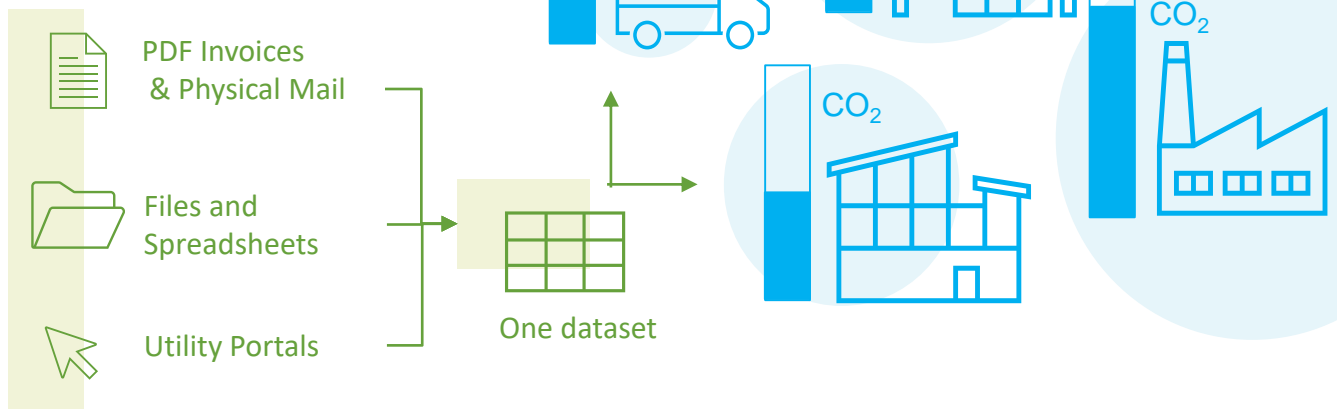
- Where do I start? Should I calculate a baseline?
- What type of information should be included?
- How do I aggregate all my utility data?
- Which baseline year should I calculate?

Step 1

Establish Baseline Footprint

Automate Utility Data Ingestion

Minimize manual data entry and help ensure key inputs are not missed in your baseline footprint calculation.





After defining current state, define the destination.

Step 2

Set Emissions Reduction Targets

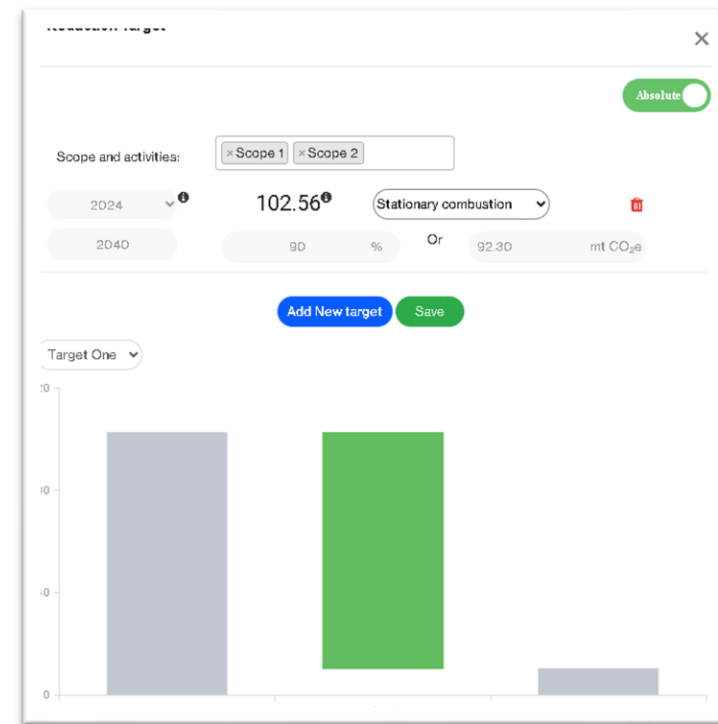
Challenges

- How can I set realistic emissions reduction targets?
- How do I know what would be an achievable timeline?
- How do I know if my goals are inline with SBTi (Science Based Targets)?

Understand Areas of Opportunity for Greatest Reduction

Rank-ordering locations by highest emissions allows you to determine what is feasible for reduction opportunities.

This gives you the ability to model impacts of energy efficiency or electrification against your goal





Test different scenarios that could help take you from current state to your goal.

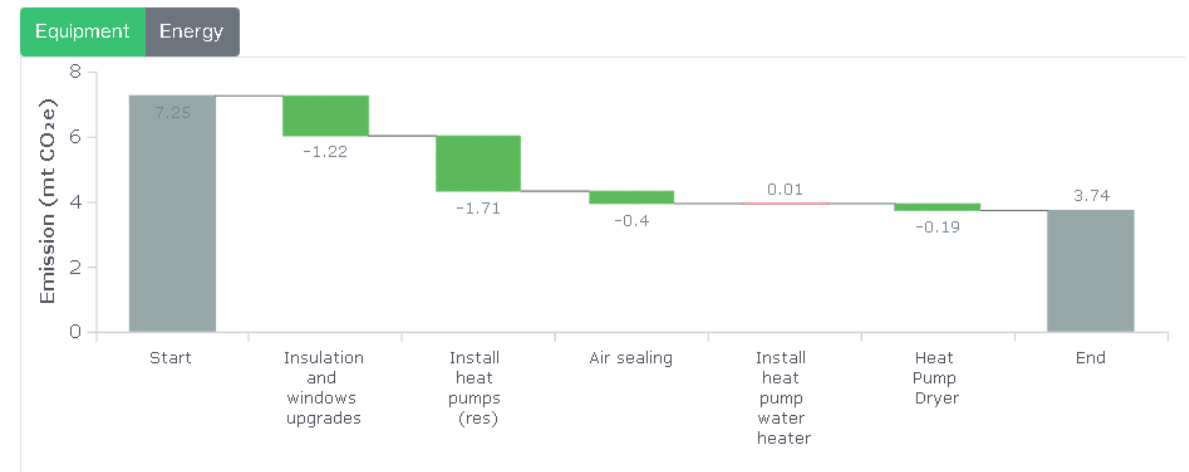
Challenges

- How do I know what my options are?
- How do I know which options will be the most impactful?
- How can I begin to shape this into a clear roadmap?

Test different paths to find the best fit.

Dynamic Waterfall and Scenario Analysis tools can help you compare options without needing extensive research or knowledge.

5808 Loch Raven Boulevard, Baltimore, Maryland 21239, United States



Step 3

Scenario Analysis & Planning



Define your implementation strategy



Step 4

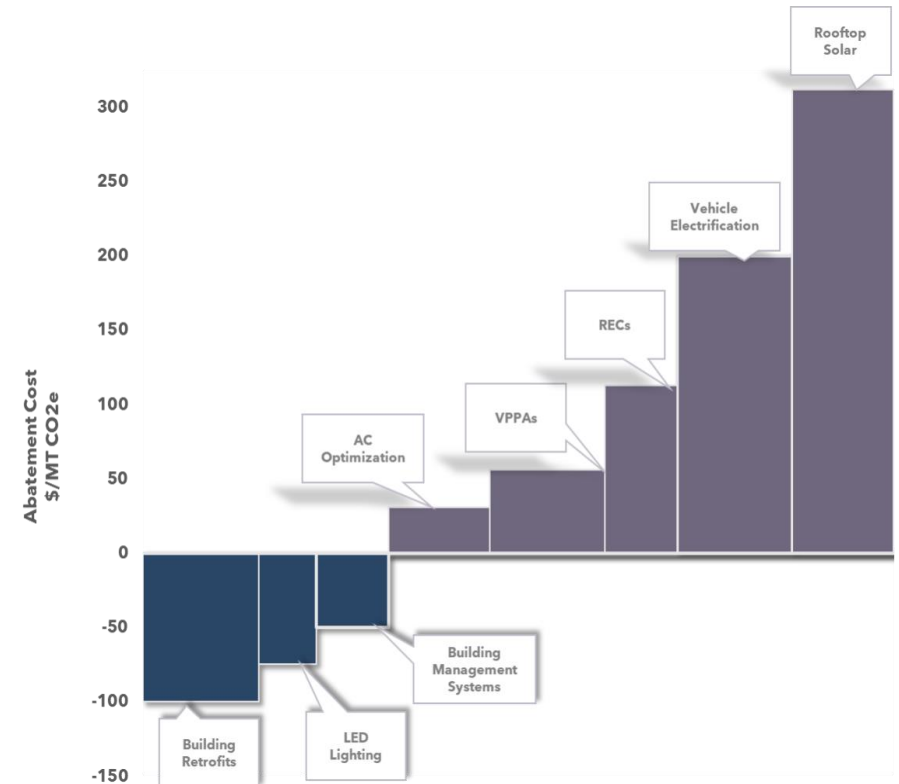
Marginal Abatement Model

Challenges

- How do I know which initiatives to prioritize?
- How do I create an apples-to-apples comparison?

Compare the cost of each initiative and its relative impact.

Solidify your strategy with a Marginal Abatement Cost Curve where we compare the cost of each sustainability initiative relative to the potential greenhouse gas emission reduction displayed in $\$/\text{tCO}_2\text{e}$





Step 5

Fulfillment of Renewable & Sustainability Initiatives

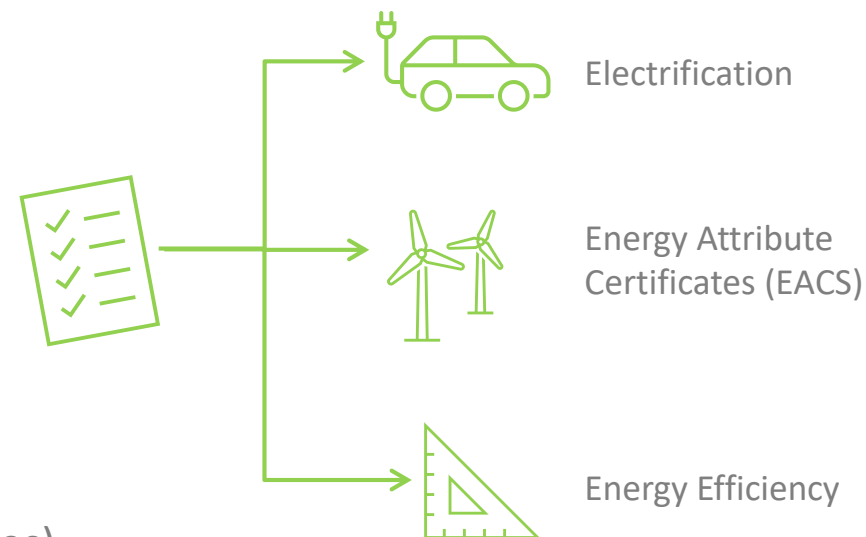
Execute your Strategy

Challenges

- Now that I have a strategic framework and plan to reduce my carbon emissions, how do I fulfill these projects?

Solution:

- Onsite Renewable Projects (Constellation Efficiency Made Easy)
- Offsite Renewable Projects, VPPA (CORE+ Constellation Offsite Renewables)
- Energy Efficiency (Constellation Energy Services)
- RECs/EFECs/Offsets/RNG (Constellation Energy)





Report progress and ensure the strategy is on track to meeting your goal.

Step 6

Standardized Reporting (e.g., CDP, GRI, etc.)

Challenges

- How do I ensure my reporting is accurate and compliant?
- I don't have time and resources to dedicate to tedious reporting requirements.

Leverage tools that let you effortlessly export the reports you need when you need them.

Standardized reporting frameworks in Carbon Accounting platform + Advisory team to develop

Third Party Assurance capabilities through Carbon Accounting platform

CDP	<i>Carbon Disclosure Project</i>
GRI	<i>Global Reporting Initiative</i>
SASB	<i>Sustainability Accounting Standard</i>
GRESB	<i>Sustainability Accounting Standard</i>
TCFD	<i>Task Force on Climate-related Financial Disclosures</i>
GHG	<i>GHG Protocol</i>

Pennsylvania Rebates & Incentives Programs



Rebate Opportunities*:

- Lighting
- HVAC
- Data Center
- Controls
- Refrigeration
- Food Services
- Custom
- EV Chargers
- Solar

Top PA Utilities with Rebates:

PECO
PPL
First Energy – PA
Duquesne Light Co

Constellation's Rebates & Incentives Team



We work with you at every stage of the process to help you take advantage of rebate opportunities, implement the optimum projects, and demonstrate tangible ROI for your sustainability measures.

*Please be aware that rebate eligibility is utility-specific and subject to change.

Contact Us



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Appendix



Navigate your Environmental and Operational Goals

Constellation Navigator delivers a clear path for its customers to set and meet their goals.

THE CHALLENGE

The journey to set and reach energy and sustainability goals can often feel like uncharted territory.

It's easy to get lost amidst the complexities of:

- Gathering and deciphering intricate energy data
- Setting and reaching net-zero emissions targets
- Managing utility resources efficiently.

THE EXPERTS, TOOLS, & STRATEGIES

Constellation Navigator combines expertise with powerful technology platforms to chart a course to environmental and operational goals.



Sustainability Advisory

Our sustainability experts work to understand your challenges and formulate a plan of action to help you reach your goals.



Carbon Accounting

Create an actionable carbon reduction roadmap rooted in clean, accurate emissions data.



Rebates Administration

Let us save you time by managing the end-to-end rebate and incentives process to put dollars back in your budget.



Data & Analytics

Automatically ingested, reliable, data, with access to clear visualizations for all the metrics that matter.



Utility Bill Management

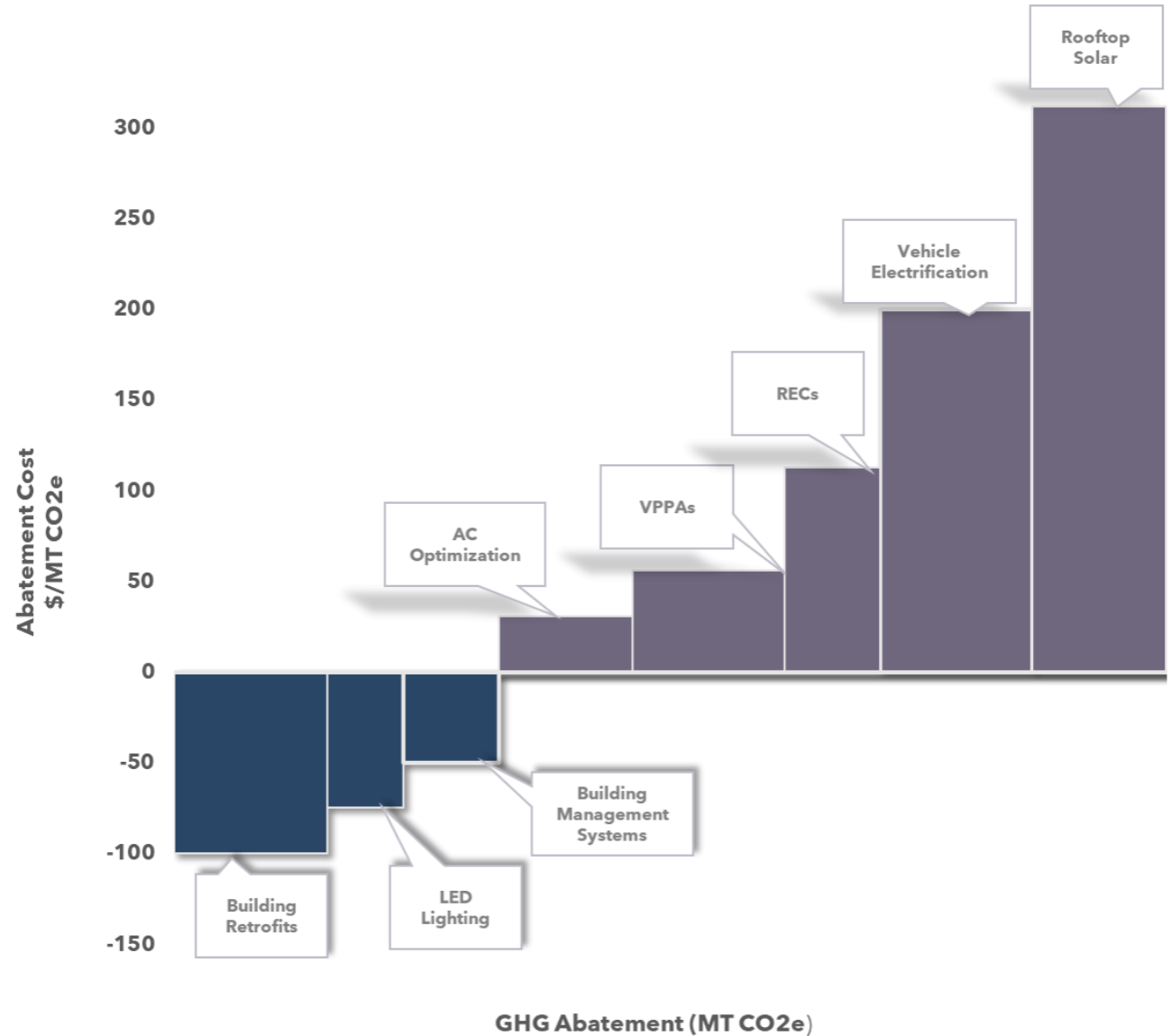
A comprehensive solution for the entire billing and payment lifecycle.

The Marginal Abatement Cost Curve

Determine which sustainability initiatives to implement by completing an “apples-to-apples” comparison of cost/savings & potential GHG emissions reductions of each initiative (displayed in \$/tCO₂e)

Leverage data-driven analysis to aid in decision making and prioritization.

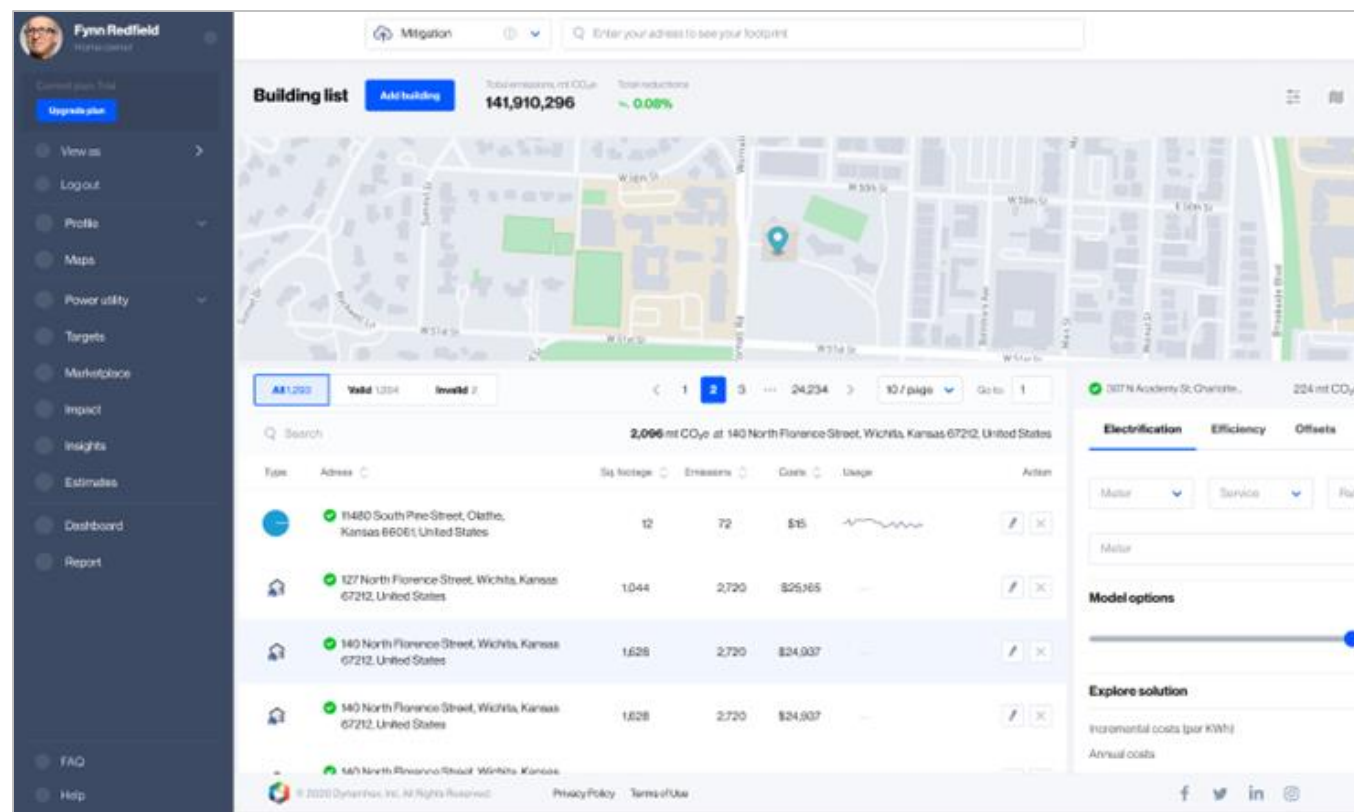
Achieve climate goals with a roadmap and climate action plan using the findings from the abatement curve.



The Carbon Accounting Platform

A subscription-based, online platform that helps commercial and industrial customers with emissions reporting, sustainability target-setting, and planning.

- 1 Establish a Baseline.**
Assess buildings, facilities, fleets and other consumption.
- 2 Set Climate Targets.**
Create clear targets and timelines to achieve climate goals.
- 3 Build a Roadmap.**
Calculate your climate roadmap showing solutions that help you hit your goals on-time and on-budget.



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