



Carbonsight
by Autocase

Carbonsight Case Study

**Engineering consultants deliver
robust decarbonization plan for
higher education campus.**

PREPARED BY

Simon Fowell

Principal Economist, Autocase

About Carbonsight:

[Carbonsight](#) is a revolutionary real estate portfolio decarbonization tool designed to assist building owners and sustainability managers in their journey towards net zero carbon.

By leveraging advanced analytics and cutting-edge technology, Carbonsight enables organizations to identify, analyze, and come up with a plan to reduce their real estate's carbon footprint effectively.

This case study highlights the transformative impact of Carbonsight on a university campus with 50-100 buildings in one city.

Case Study Client Profile:



Name: NDA University partnering with a global AEC firm.



Type: Higher education



Portfolio Size: 50-100 Properties



Geographical Distribution: Campus, USA



The university is located in one city in the U.S. and has a diverse set of buildings in terms of typology (classrooms, labs, residential, office, and sports centers, among other facilities), construction type, and age (pre-1950 to today)



Client Objectives:

The university has hired a global energy engineering firm to develop a decarbonization plan that puts them on a trajectory to be net zero carbon (scope 1 & 2) by 2050, with an interim target of 50% reduction by 2035 as compared to baseline emissions in 2019.

The global engineering firm had already completed a number of crucial steps before Carbonsight was leveraged, including:

1. Collected building-level utility meter data where available to understand the total operational energy used by the campus.
2. Identified a set of potential decarbonization measures for each asset, ranging from energy efficiency measures, fuel switching, and on-site renewables.
3. The team also estimated each measure's upfront costs.

Client Challenges:

Budget limitations:

The University wanted an online tool that they could adapt over time and communicate implementation progress towards their net zero goals. This was not possible with the limited budget they had available.

Need for a quick and robust energy reduction estimates:

Baseline energy data was not available for many of the facilities, given the age of some of the buildings. They did not have the time or resources to conduct detailed energy audits.

Platform to replace MS Excel for large data sets:

With the number of buildings as part of the portfolio, MS Excel was proving to be too cumbersome for the global AEC to manage all the building-level baseline data and organize each decarbonization measure's impact for each property.

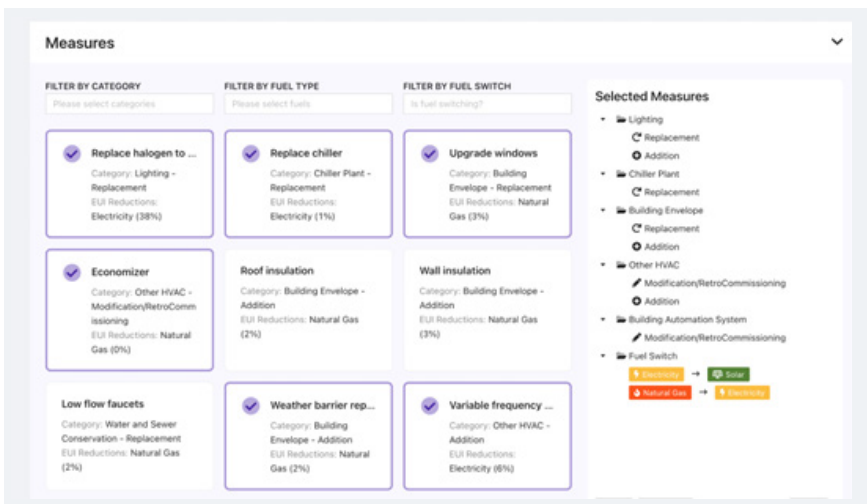
3. Rapid evaluation and ‘what-if?’ scenario planning:

b. Carbonsight’s built-in Scenario feature allowed the team to see potential best and worst outcomes for GHGs based on possible macro-economic outcomes. The team now knows if their plan is future proof how many offsets the may need to purchase to reach net zero.

Results and Benefits:

1. Save time and budget:

a. The engineering firm was able to create a more robust plan in less time within the original budget scoped for the decarbonization planning process. Carbonsight saved hundreds of hours collecting and organizing data.

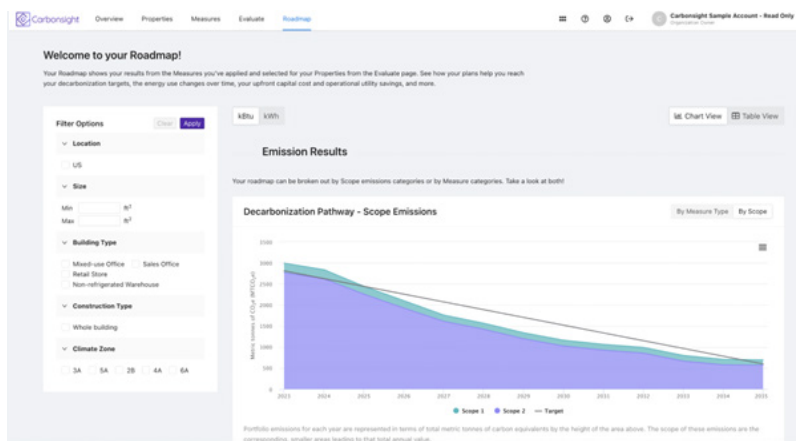


Apply Decarbonization Measures:

Efficiently apply reduction measures by category, fuel type, and/or fuel switch.

Interactive Roadmap:

The roadmap shows your results from the measures you’ve applied. See how your plans help you reach your decarbonization targets.



Results and Benefits (continued):

2. An interactive deliverable:

a. The team had originally planned to deliver the decarbonization plan to the University in a spreadsheet. However, Carbonsight offered an enhanced deliverable to the client allowing them to explore the results in an interactive dashboard.

3. A living tool that can be used to track progress:

a. Once the initial plan is complete, the University will use Carbonsight to track which measures they have implemented on each asset, as well as annually track their energy use to assess if they are on-schedule to meet their aggressive targets.

b. The University also now has a tool that can be updated easily over time. If their decarbonization plan needs to adjust based on changing capital plans, updated emission factors, or implementation delays they are able to modify the plan in Carbonsight and instantly see the updated roadmap.



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Website: Carbonsight.com

Email: info@autocase.com