



Design Team Uses Autocase to Pursue Project and Inform the Client of PHIUS 2018 + Timber Design Benefits



Project Description

The design team used data and metrics to support and differentiate their project pursuit. They were considering varying three material frames of a building and showing the impacts of pursuing PHIUS +2018.

They were weighing the impacts of EUI, on-site and off-site renewables, embodied carbon, and indoor environmental quality aspects like MERV filters, air flow rates, and thermal comfort controls.

Strategies Assessed



HVAC, MERV & temp



Natural gas



Embodied CO₂



Electricity use



On-site and Off-site Renewables

PARTNERS

Architecture Firm

DESIGN PHASE

Project Pursuit

BUILDING TYPE

Mixed-use Office

SIZE

240,000 sqft

LOCATION

North East USA

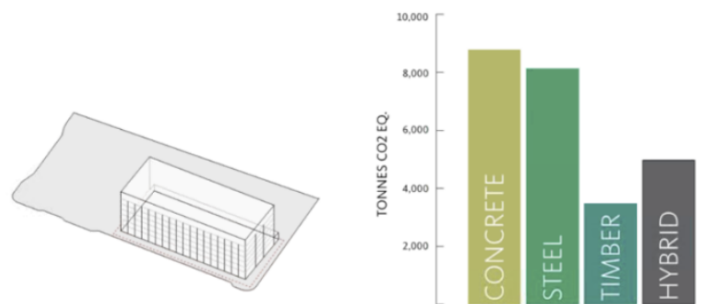
How Autocase was Used

The team used conceptual design assumptions, Autocase defaults and Passive House standards to enter data into the following Autocase modules:

- Energy
- Materials
- HVAC



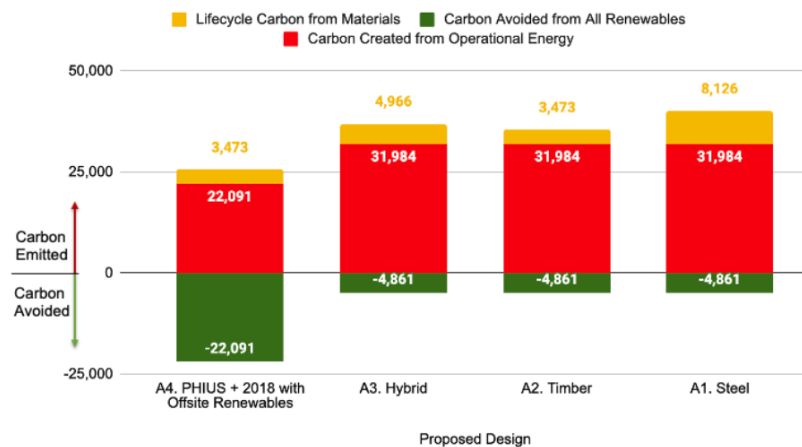
CATEGORY	IMPACT TYPE	PHIUS+ 2018 SCENARIO
FINANCIAL	SAVINGS FROM ELECTRICITY	\$3,771,000
FINANCIAL	SAVINGS FROM NATURAL GAS	\$1,004,000
SOCIAL	OCCUPANT PRODUCTIVITY	\$14,340,000
SOCIAL	OCCUPANT HEALTH	\$2,499,000
SOCIAL	OCCUPANT ABSENTEEISM	\$1,424,000
ENVIRONMENTAL	CARBON EMISSIONS	\$1,740,000
ENVIRONMENTAL	AIR POLLUTION	\$652,400
TRIPLE BOTTOM LINE		\$25,430,400



The Outcome

The design team was able to bolster their project pursuit by adding the triple bottom line impact of their design using conceptual data. They were also able to quantify CO2 emitted and avoided from energy, renewables and materials using Autocase's defaults and location-specific carbon calculator.

Carbon Story



Want to learn more?

info@autocase.com



autocase.com