# Finding the Right Decarb Pathway; The Strategic Decarbonization Assessment (SDA)

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May 2022



## **How's Decarb Going to Go?**

- → The real estate industry will manage decarb just like it manages everything else.
- → There is a cost of inaction. It is not zero.
- → There is good decarb and **bad decarb**.
- → Marginal cost, not total cost.



## **Every Building Needs a Plan**

- → **Don't decarbonize and then modernize**. Integrate repositioning, amenities, regulatory compliance, etc into the decarb plan.
- → Planning is crucial to **avoid missed opportunities** and expensive pitfalls.
- → The art is in the phasing the make ready work & floor by floor execution.

Proactive implementation will be more cost effective than reactive decisions made under duress.



#### What's wrong with energy audits? Nothing, but we need the right tool for this job.

Distinction	ASHRAE Standard 211; Level 2 Audit	Strategic Decarbonization Assessment
Question answered:	How can this building perform better, <b>today</b> ?	How should we <b>re-engineer</b> this building to perform <b>in the future</b> ?
Financial significance	Small	Big
Primary audience	Facilities/Ops, Engineering	Asset Management
Time horizon	<b>Short</b> ; payback constrained	<b>Long</b> ; full capital cycle, 10+ yrs
Downside avoided	Wasted utility spend	Stranded asset, degraded value/NOI, increased CapEx/TCO

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# The Strategic Decarbonization Assessment (SDA)

The SDA is a tool to help users develop and communicate a good decarb plan.

It supports **comparison** of decarb plan directions (qualitative decarb planning) and **quantification** of the decarb plan.

It compares the cost of the plan to a **reactive baseline** (cost of inaction) in the **future you anticipate** (variable assumptions & scenarios).



### In Jargon:

- An energy audit (ASHRAE Standard 211)
- + A partial Property Condition Assessment (PCA)
- + A discounted cash-flow (DCF) analysis of different investment scenarios

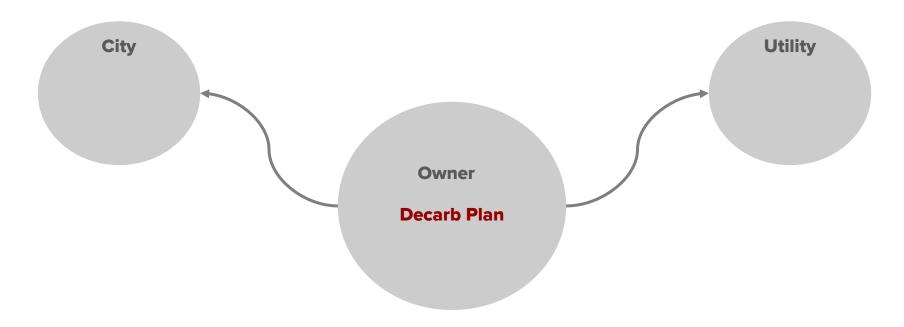
The Strategic Decarbonization Assessment

#### Core Concepts:

- → CapEx and OpEx
- → Discount & escalation rates
- → Net Present Value (NPV) and Net Present Cost (NPC)
- → Sensitivity and Options
- → ECMs/EEMs, fines, offsets, EUIs and carbon intensities

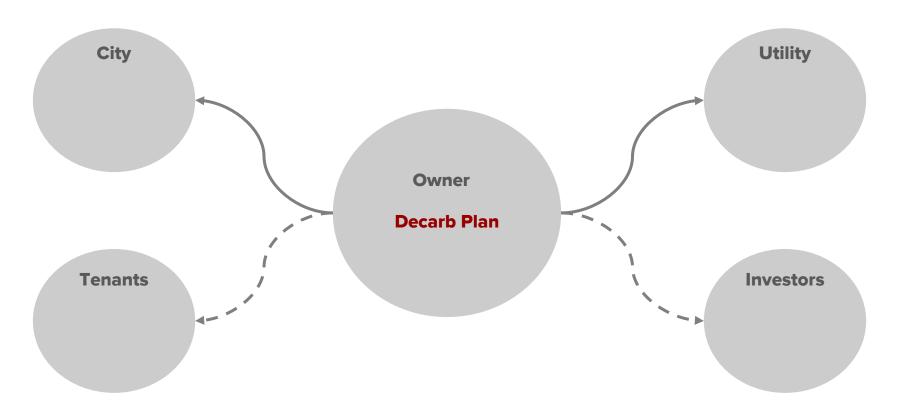
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# The SDA: Develop and Communicate the Plan

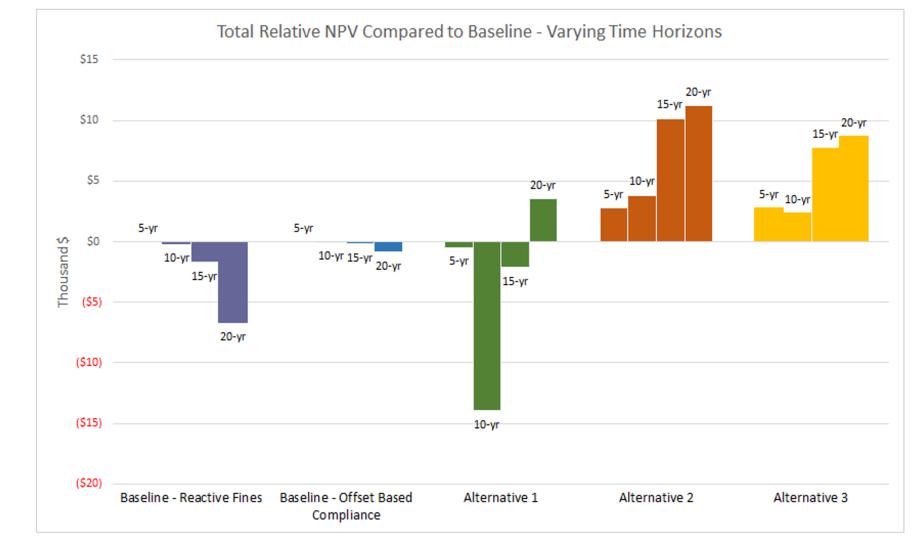




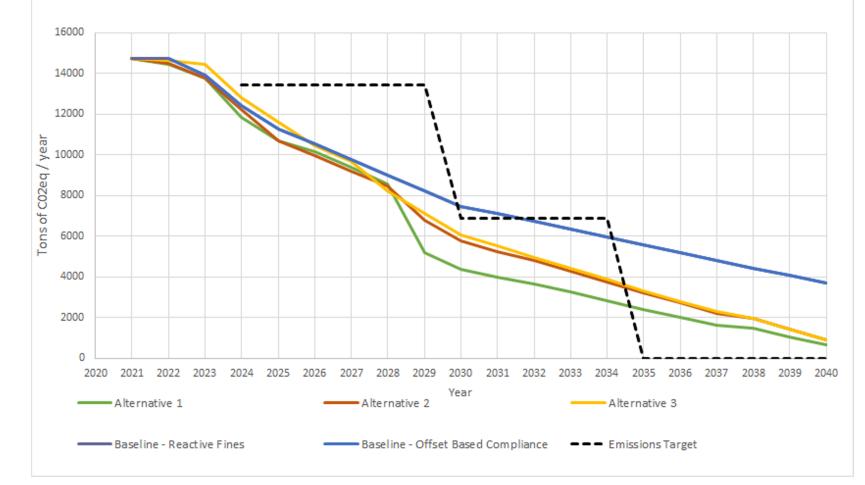
# The SDA: Develop and Communicate the Plan



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#### For more info on EBC and the SDA

→ See the NYSERDA EBC Knowledge Base and updates on Cohort #2

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