# The building electrification train is leaving the station...can we get our clients onboard?

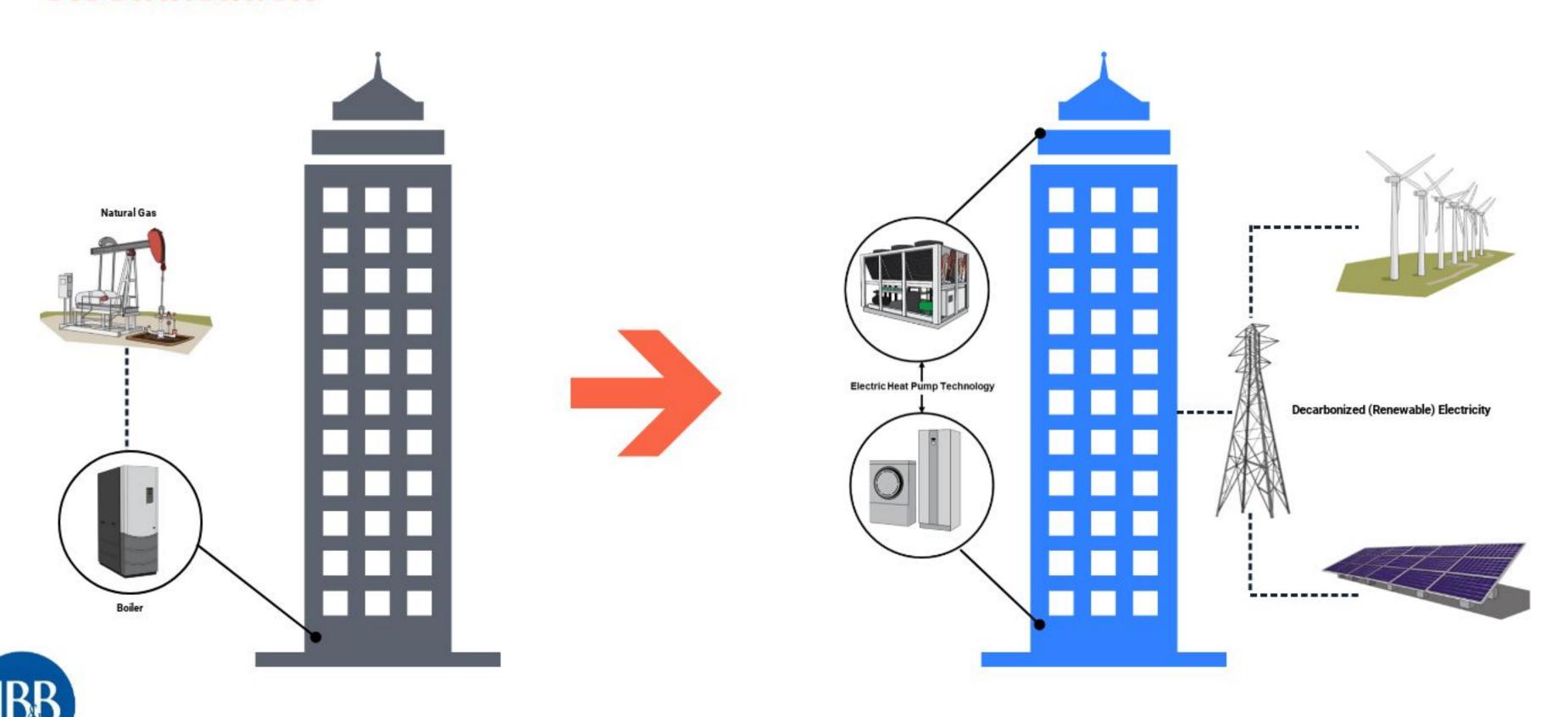
**Molly Dee-Ramasamy** 

**Jaros Baum & Bolles** 

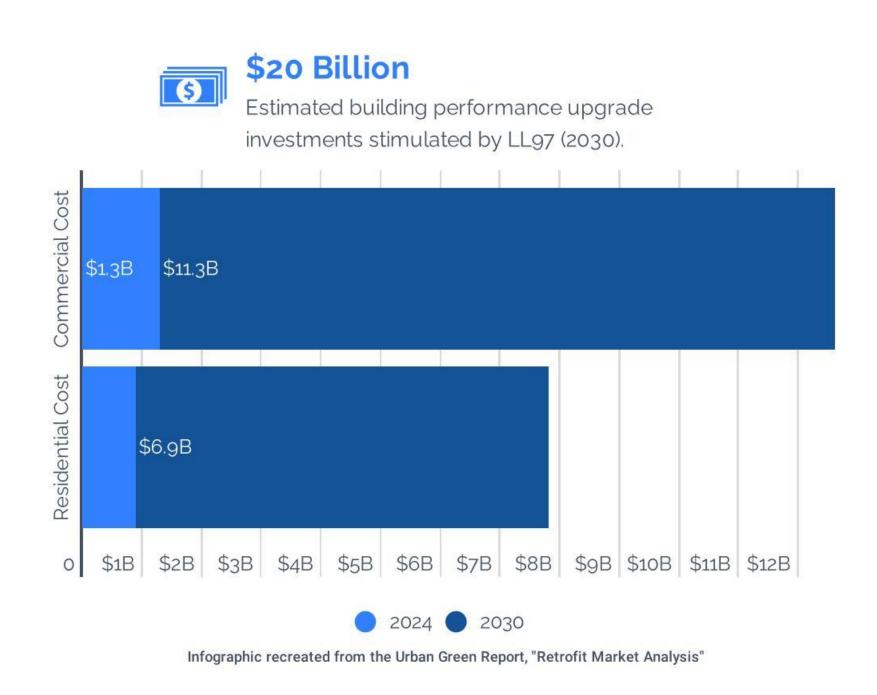


## Deep decarbonization in buildings revolves around a core concept:

### electrification



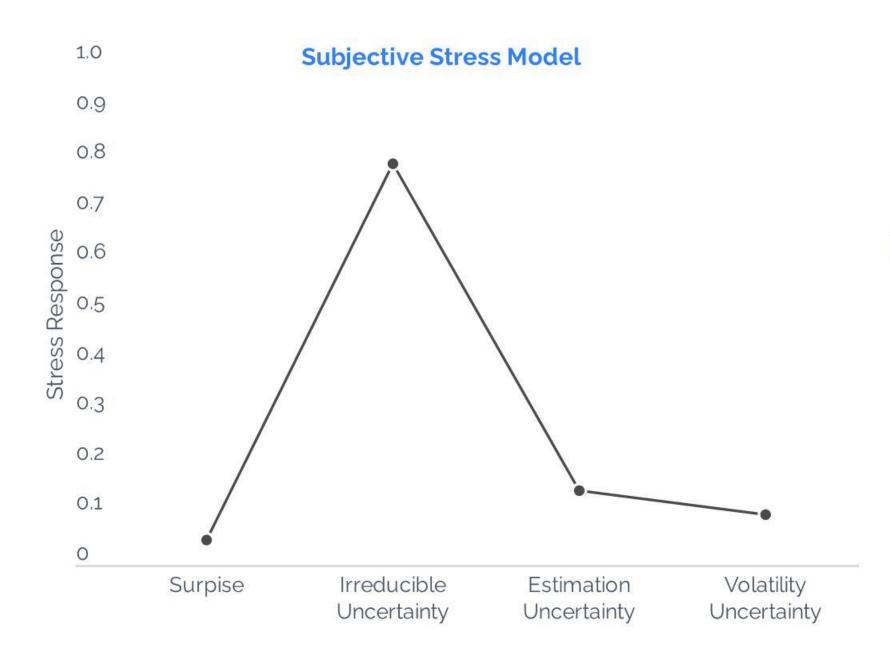
## But building electrification is disruptive and the industry landscape is uncertain...



But what about the Can the available electrical grid? technology even do this? 99 How much is this going Does this mean my utility Wait, the laws are still bills are going to to cost me upfront? being developed...? increase?



## And when there is uncertainty, it's easier to stick with what you know



"

Everyone knows that uncertainty is stressful. But what's not so obvious is that uncertainty is more stressful than predictable negative consequences.

de Berker, A., Rutledge, R., Mathys, C. et al. Computations of uncertainty mediate acute stress responses in humans, 2016 as cited in Lewis why we're Hardwired to hate uncertainty, 2016



# But sticking with "business-as-usual" will have consequences for both the planet and our clients

San Francisco Becomes the Latest City to Ban Natural Gas in New Buildings, Citing Climate Effects

Seattle City Council passes measure to end most natural gas use in commercial buildings and some apartments

#### Berkeley first city in California to ban natural gas in new buildings

The city of Berkeley will no longer allow natural gas pipes in many new buildings starting Jan. 1, 2020. It's the first city in California to pass such a law, officials said.



De Blasio moves to ban natural gas hookups: 'Literally' our 'only choice is renewable energy'

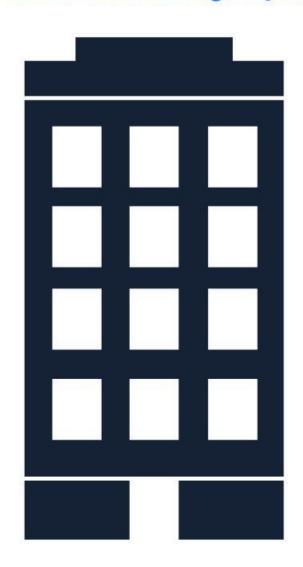
#### DEVELOPING CARBON TARGETS FOR EXISTING LARGE BUILDINGS

The City of Boston is developing a new policy to make existing large buildings healthy and climate-friendly. Large buildings in Boston are the biggest emitters of carbon pollution. Developing a carbon standard for these buildings is one of the 2019 Climate Action Plan Update strategies.



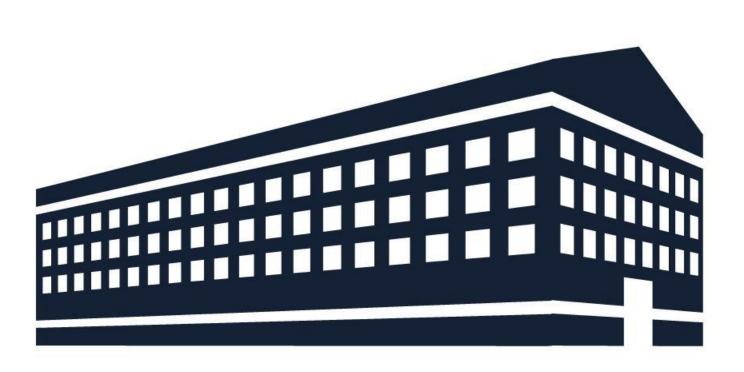
# We need a way to reduce uncertainty and shift the conversation from the challenges to solutions so our clients can get comfortable with *moving* forward

**Individual Building Projects** 



- Factors in tenants
- Addresses logistics and investment cycles
- Very little room for failure

A Dedicated "Living Laboratory"



- Allows for public/private partnerships
- Accelerated innovation
- Allows for failure and lessons learned



Regarding Buildings & Construction, to achieve NY's 2050 Carbon & Equity goals, the most critical obstacle JB&B has to overcome is...

...a lack of demonstration projects that would reduce uncertainty by showcasing practical electrification solutions.



