NASEO Policy Conference

NYSERDA: Clean and Resilient Buildings

February 6, 2025

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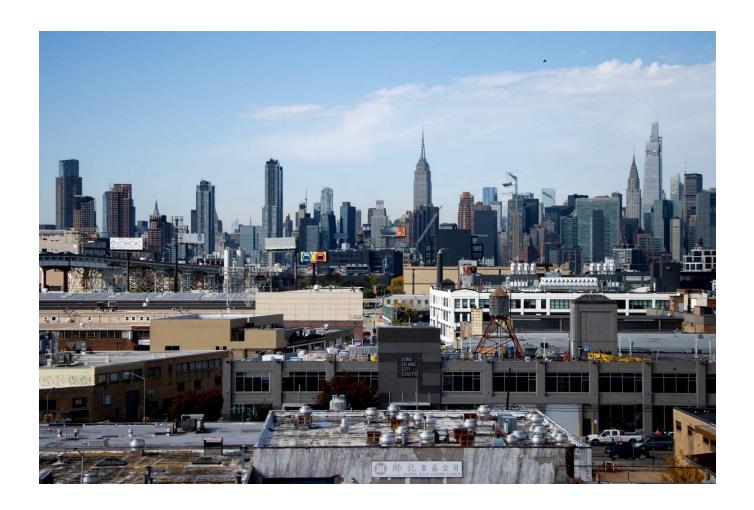
VP, Clean and Resilient Buildings
New York State Energy Research and Development Authority



Empire Building Challenge



- Partnership with leading real estate firms, engineers, and manufacturers to demonstrate scalable low-carbon retrofits for over 125M square feet of multifamily & commercial office buildings in New York State
- Accelerates private sector investment in carbon reduction via peer learning
- Send a clear demand signal for new product development by manufacturers



https://www.nyserda.ny.gov/AII-Programs/Empire-Building-Challenge

Current Empire Building Challenge Projects





3 multifamily projects (all affordable, located in Yonkers, Harlem, the Bronx)



6 commercial projects (5 in Manhattan, one in Queens)

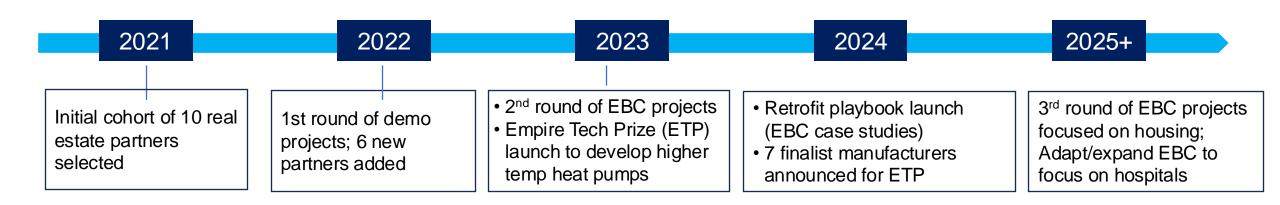
Projects exemplify the **Resource Efficient Decarbonization** (RED) model, looking at emissions reduction holistically

Important component of RED is **Heat Recovery**, including measures like:

- Hydronic loops connecting tenant floors in commercial buildings
- Major façade retrofits
- Re-piping the existing hydronic distribution system to enable simultaneous heating and cooling
- Advanced waterside heat recovery measures that will enable the decommissioning of the existing cogeneration plant in the future
- Packaged terminal heat pumps for heating and cooling

Empire Building Challenge: Progress Since Launch





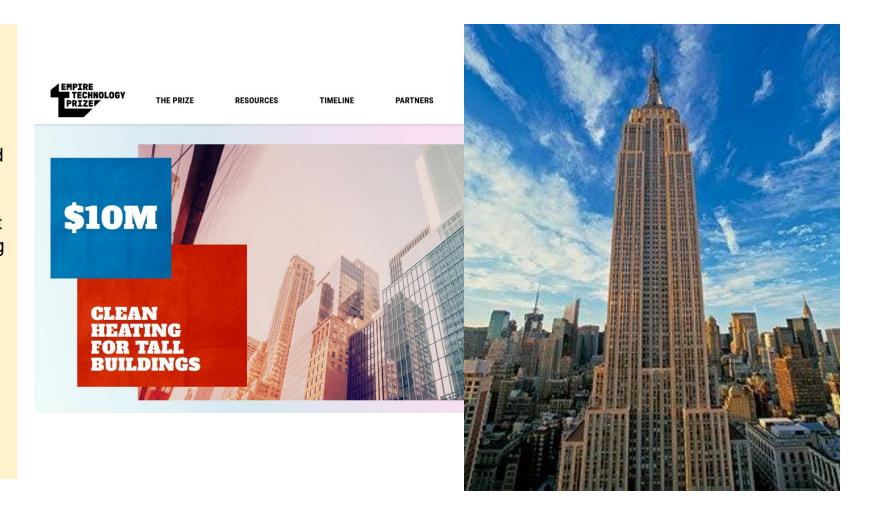
Key Success Factors

- **Right partnerships:** 27 real estate portfolio owners; leverage key associations (ASHRAE, USGBC) and events to directly engage 2,000+ professionals and reach over 6,000 companies
- Targeted objective focused on scale: Clear goal of replicability across portfolio owners/operators with similar buildings (e.g., ~125 million square feet)
- <u>Next Steps</u>: Program design adapted to other hard-to-decarbonize sectors including affordable Multi-Family, hospitals

Empire Technology Prize



- Focused on groundbreaking solutions to tackle heating in tall buildings
- Up to 7 finalists across residential and commercial
- Prizes will be awarded to projects that demonstrate centralized clean heating or distribution solutions in 7+ story buildings

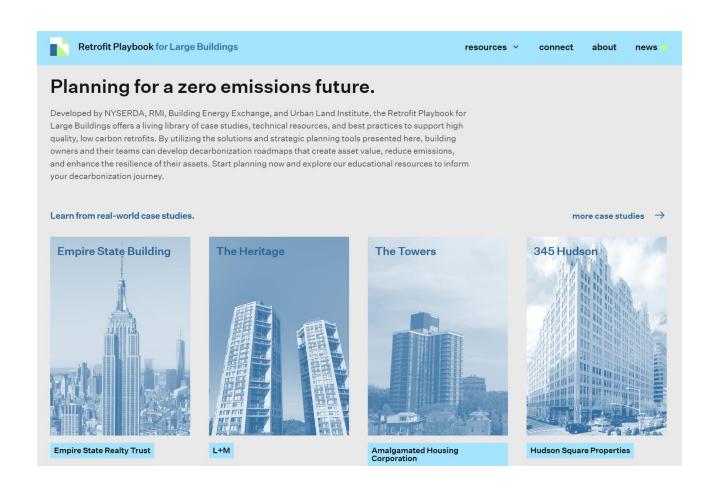


https://thecleanfight.com/etp

Retrofit Playbook for Large Buildings



- Resource and knowledge-sharing platform
- For building owners, operators, and engineering and design teams
- Supports the creation of decarbonization roadmaps and making the business case for retrofits

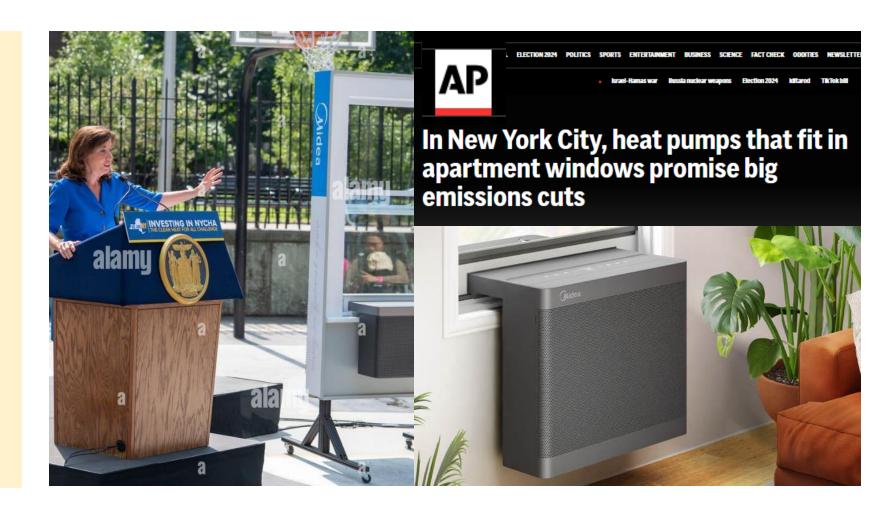


https://retrofitplaybook.org/

Clean Heat For All



- A technology prize to advance innovation for a packaged windowmounted heat pump
- Developed partnership with NYCHA and NYPA to test, assess, and scale adoption of heat pump
- NYCHA has committed to purchase and install 30,000 units



https://www.nyserda.ny.gov/AII-Programs/Packaged-Terminal-Heat-Pump-Program

Thank you!

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Find a NYSERDA program:

https://www.nyserda.ny.gov/All-Programs

