

URBAN FUTURE LAB

PAT SAPINSLEY, AEG JULY 2023



NYU

**TANDON SCHOOL
OF ENGINEERING**



INTRO:

Pat Sapinsley, Managing Director, Urban Future Lab NYU Tandon (former architect, former VC investor at Good Energies)



PROBLEM:

Grid modernization will take many years. It depends on political will, public funding for transmission, interconnection and permitting, reversal of NIMBY, acceptance by real estate owners, new technology for grid management and doubling of capacity, to name a few. We can't do this in 12 months



BENEFITS/CONSEQUENCES:

Incremental, achievable peak reduction, requiring less new generation and transmission



OBSTACLES/CHALLENGE/FIRST FOCUS:

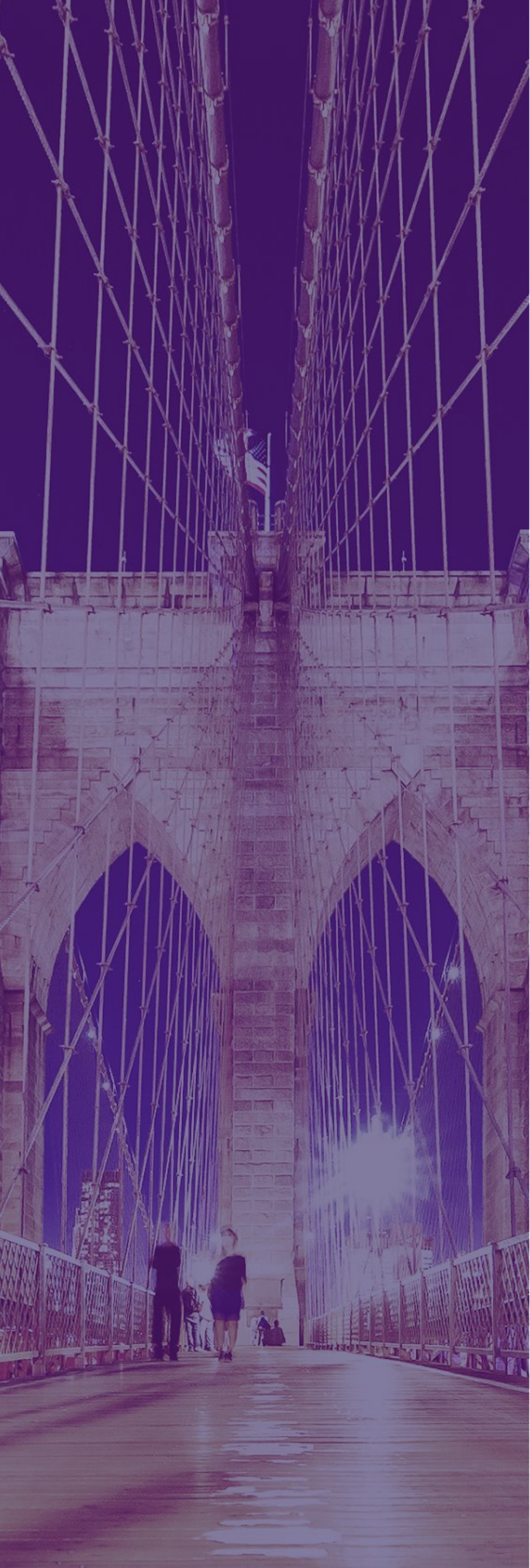
- *No silver bullet solution. Grid Mod requires multiple Tiny Solutions*
- *Focus on something achievable in 12 months. Something simple that has benefits for the end users, the policy makers and the utilities*

ROLE OF MY ORG:

- *Launch Competition to design a very simple, universal to install, low power, heat pump/AC.*

ROLE OF OTHERS:

- *Design a buy back/incentive program*
- *Owner receives \$\$ for trade in*
- *Non owner gets new unit*
- *Utility saves peak costs, covering cost of unit*
- *Workforce training for good jobs, paid by IRA grant*



FINAL STATEMENT:

Regarding Grid Modernization, to achieve New York's climate, health, and equity goals, a critical obstacle to collectively overcome in 12 months is the need for a simple heat pump/AC design, incentive, and installation program.

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CONTACT



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