AEG New York 22Q3 Stakeholder Challenge: Grid Modernization

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SIEMENS

Introduction

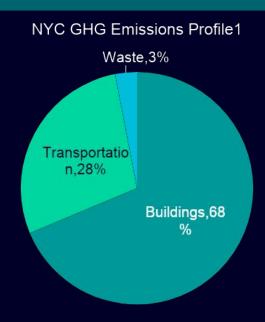


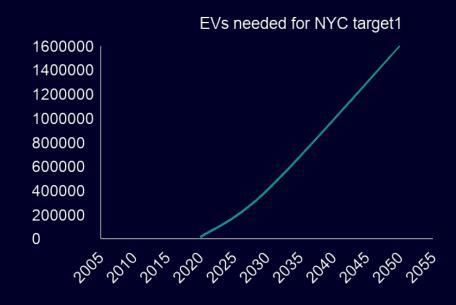
What is the general problem or objective per this topic?

Increased hosting capacity needed to meet rapid and extensive growth of EVs and decarbonization targets

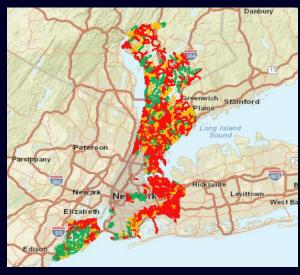
Transportation is a major **GHG** contributor

Rapid and extensive growth of EVs needed **Number of EVSE which** can be added to the grid is limited





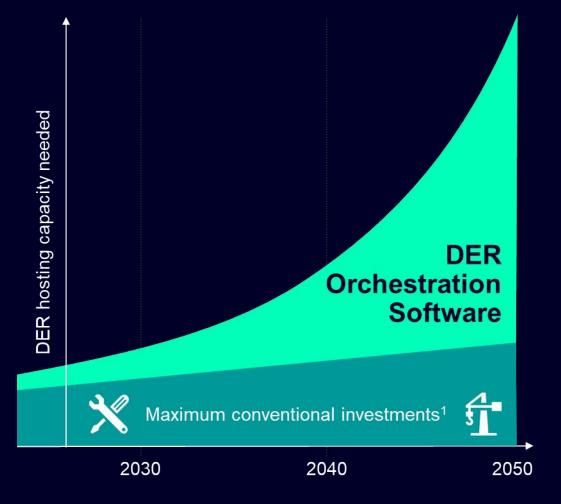
EV Charging Capacity²



¹ "Electrifying New York Report," New York City Mayor's Office of Sustainability, September 2021

² Con Edison Hosting Capacity Web Application

What is a key obstacle/challenge to overcome in solving this problem in the next 12 months?



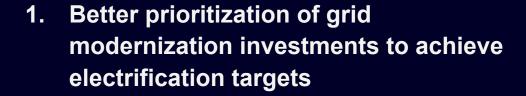
Key factors for successful DERMS implementation include understanding:

- Where, when, and how much additional hosting capacity is needed
- Available demand-side flexibility
- Behavioral barriers to overcome

¹ Limited by resource availability, coordination effort, space, acceptance, etc.

What are the benefits / consequences of addressing or not addressing this obstacle in 12 months?





 Understand critical grid segments, available flexibility and future needs



Higher chances of success for DERMS implementation

 Address potential behavioral barriers and customer acceptance issues early-on

Regarding Grid Modernization, to achieve New York's Climate, Health and Equity goals, a critical obstacle to collectively overcome in 12 months is...

lack of understanding and awareness on where, when, and how much additional hosting capacity is needed, while considering planning / implementation of demand-side flexibility with associated behavior change measures.

