

# **Strandable Costs in a Low Carbon World**

# REV Focused on Three “Tracks” and Market Based Solutions



## Track One: Implementation

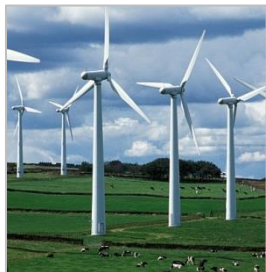
*Distribution-level market design, technical platform, integrated system planning & operation, new utility business models, ownership of DER (Order issued Feb 2015)*

- Demonstration projects allow us to try things out
- Utilities will be the Distributed System Platform
- Utility ownership of DER limited to backstop
- Distributed system implementation plan provides blue print



## Track Two: Regulatory & Ratemaking

- Rate design
- Performance based ratemaking



## Track Three: Renewables

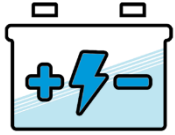
- Large-scale renewables
- Renewable portfolio plus zero emission credits

# Climate Leadership and Community Protection Act

- Effective January 1, 2020
- Set Statewide GHG Emission Limits
  - 2030: 40% reduction from 1990 emissions
  - 2050: 85% reduction from 1990 emissions
- Establishes energy efficiency goal of 185 trillion BTUs energy reduction from the 2025 forecast
- Provides that disadvantaged communities receive 40% of benefits of clean energy and energy efficiency spending
- Increases New York State's clean energy goals

Prior Goal	CLCPA Goal
50% renewable electricity by 2030	70% renewable electricity by 2030; Zero emissions by 2040
2,400 MW of offshore wind by 2030	9,000 MW of offshore wind by 2035
3,000 MW of distributed solar by 2023	6,000 MW of distributed solar by 2025
1,500 MW of energy storage by 2025	3,000 MW of energy storage by 2030

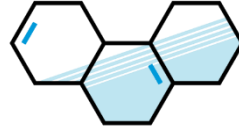
# The 2019 bulk solicitation -- Poletti site on track for 12/2022 COD



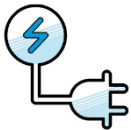
**Capacity:**  
100 MW / 400 MWh



**Project Site:**  
NYPA Poletti  
Astoria Complex



**Battery Type:**  
Lithium Nickel  
Manganese Cobalt  
[NMC]



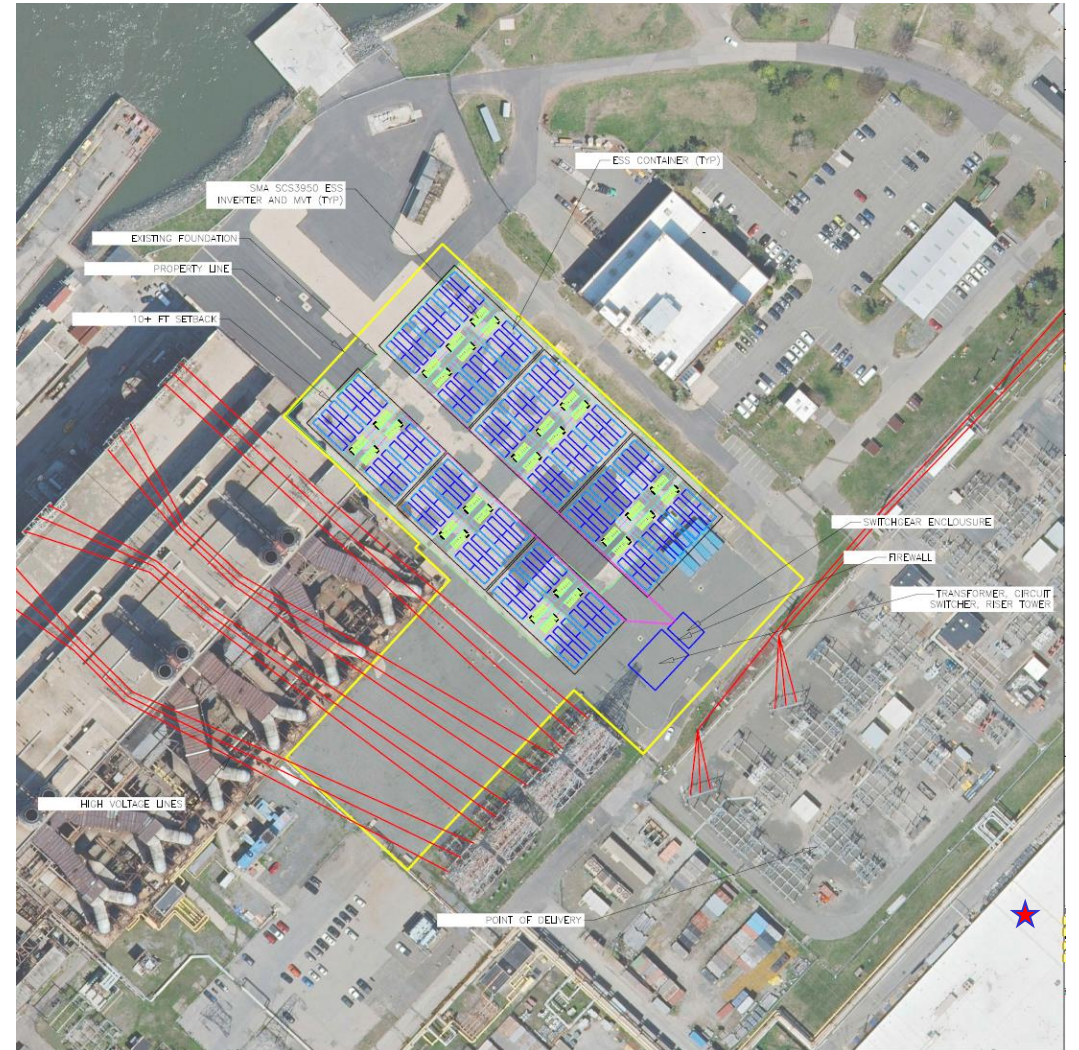
**Connection:**  
138kV  
Astoria West



**Contract:**  
ConEdison has  
exclusive dispatch  
rights for 7 years



**Commercial  
Operation:**  
Dec 2022

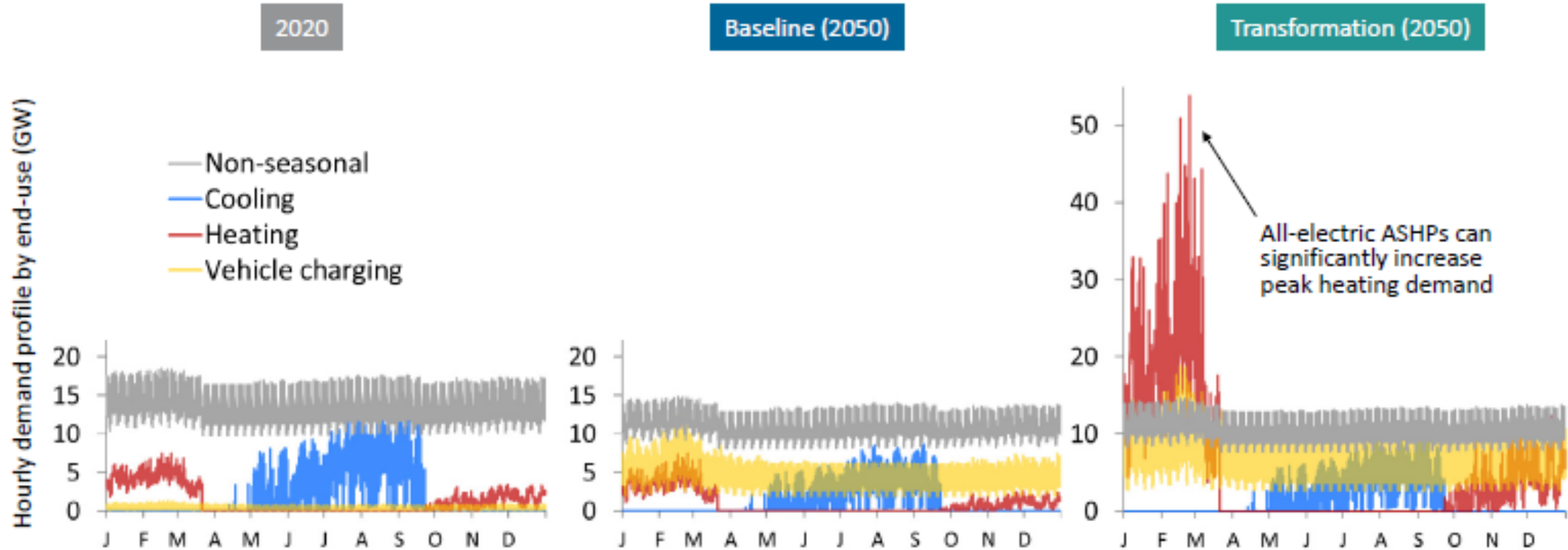


# Company Property – 3<sup>rd</sup> Party Owned ESS Nevins Street Make Ready Site

- Third party energy storage and EV charger operators on utility property
  - 10MW/40MWh of Energy Storage
  - 18 DCFC and Level 2 Chargers.
  - Scheduled commission date: Q2 2021
- Area is being rezoned from light commercial / industrial to mixed residential / commercial
- Benefits:
  - Resiliency
  - Enabling the market by off-setting real estate and interconnection costs
  - Offering publicly accessible DCFC and Level 2 chargers without occupying street parking spaces
  - Supporting the achievement of NYS and NYC ES and EV goals



# Electrification Load Growth Breakdown



Source: EPRI: Electrification Scenarios for New York's Energy Future 2020