



NYSERDA

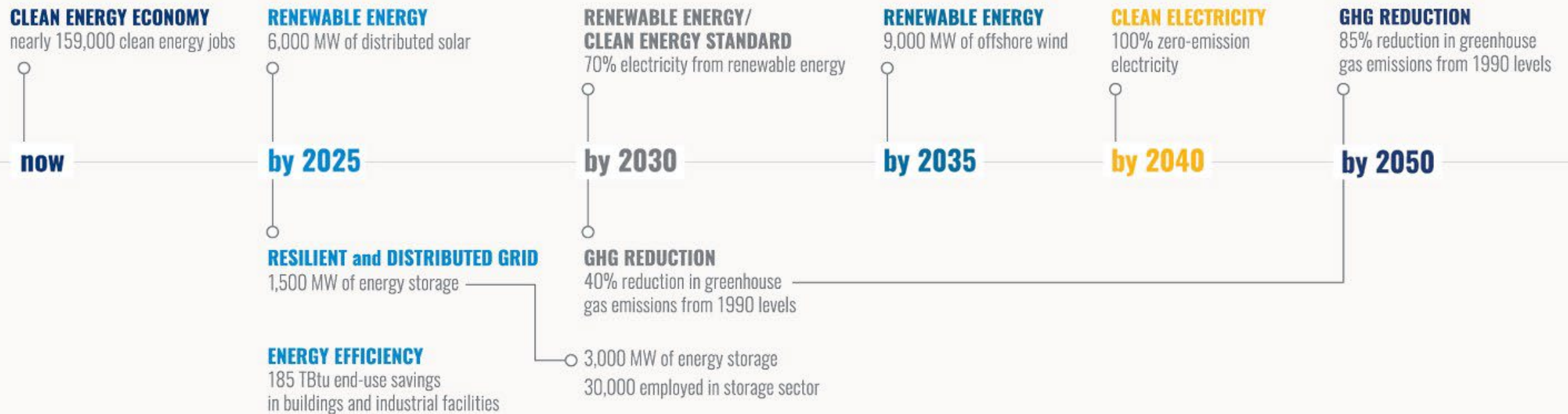
New York State's Path to Decarbonization



Climate Leadership & Community Protection Act

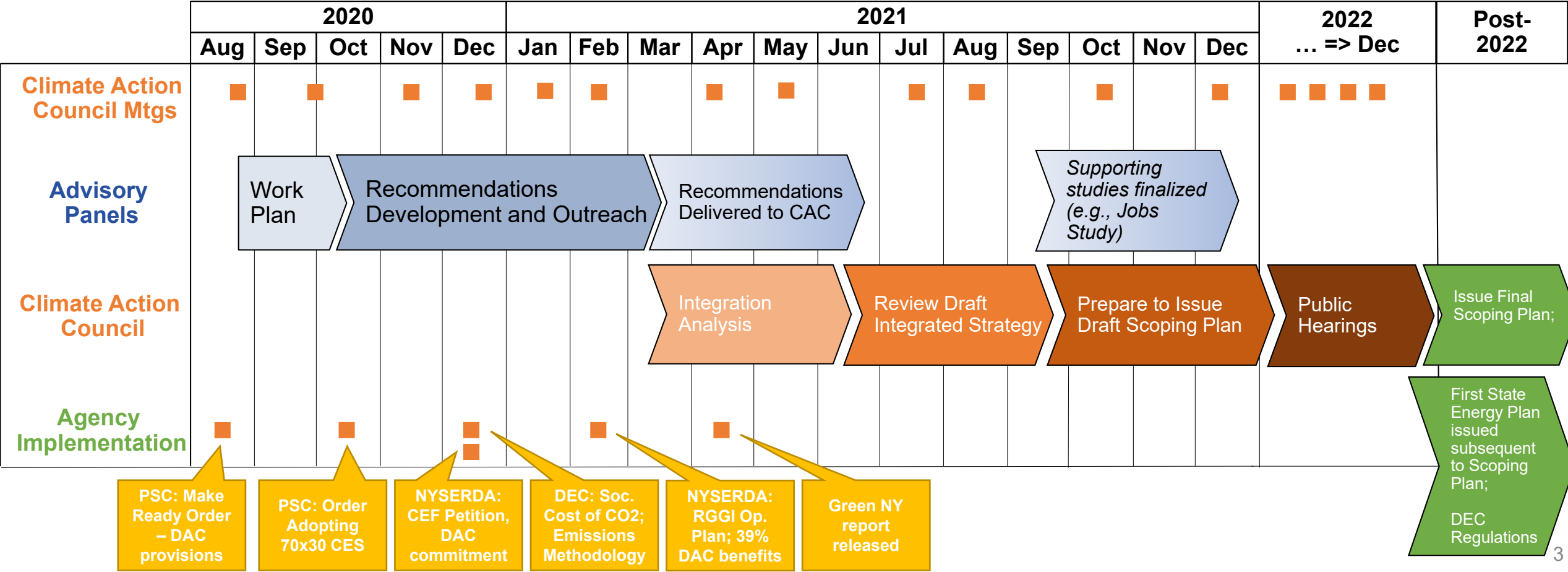
The 2019 Climate Act codified targets into law:

- **Minimum 85% emissions reduction by 2050, 40% by 2030**
- **At least 35% to 40% of spending on clean energy and energy efficiency projects and investments must benefit historically disadvantaged communities**



CLCPA: Timeline and Progress

Implementation of New York's Climate Act is on track and moving forward expeditiously





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Decarbonization Implications



NYS Transportation Sector 2030 Goals

From



To

- 70,000 EVs on the road
- 8,000 EV charging stations
- 2% of car sales are ZEVs
- Electric trucks and buses are 2-3X price of diesel equivalent
- Extensive transit, biking, walking in urban areas

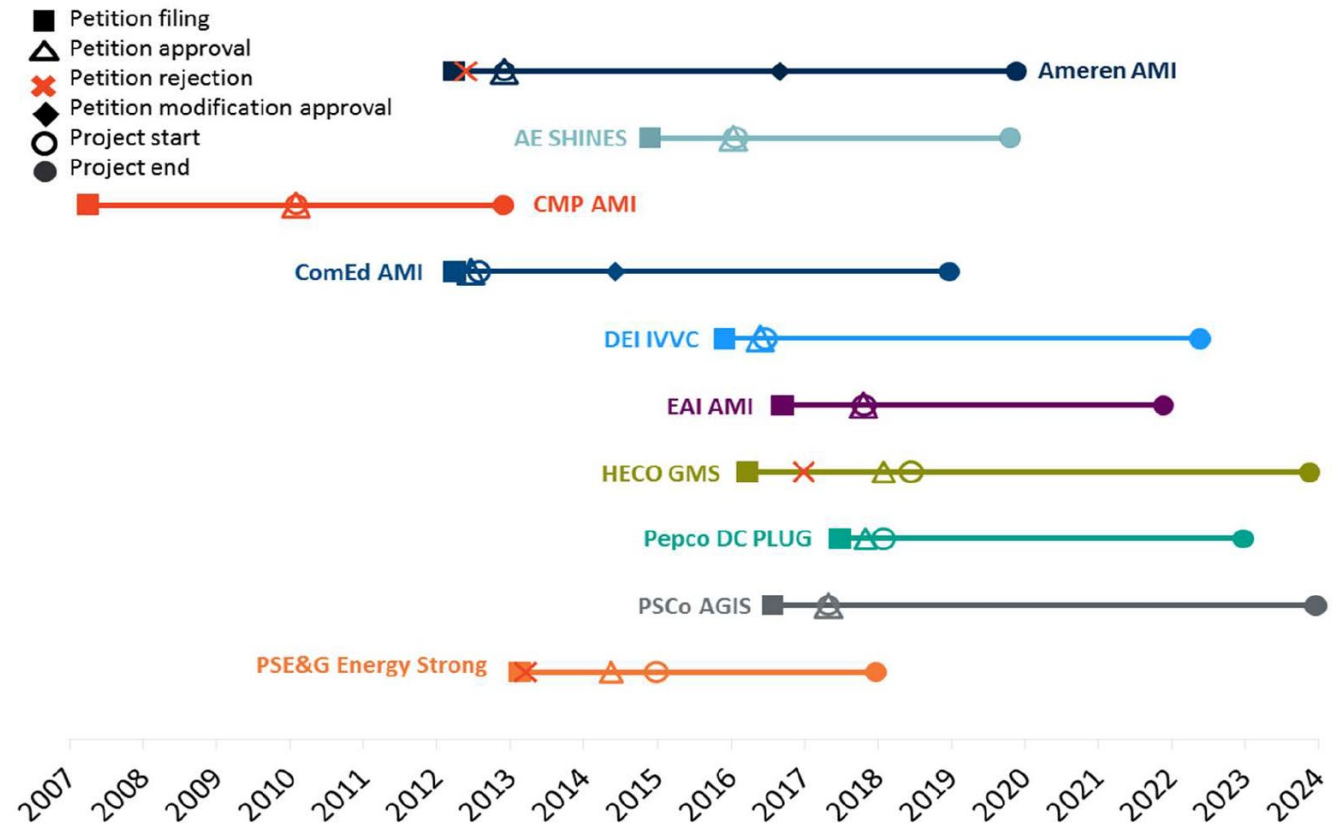
- 2 million EVs on the road
- 300,000 EV charging stations
- 50%+ of car sales are ZEVs
- Electric trucks and buses beat diesel in total cost of ownership
- Expanded transit, biking, walking statewide

Technology Adoption in Regulated Utility Markets: Pace of Historical Change vs. Required Future Change

Brattle Group review of 21 U.S. Grid Modernization Projects (May 2019)

5+ years from filing to completion for even relatively proven technologies to be adopted and scaled into the regulated utility sector

Does not account for time to develop the petition



Existing Infrastructure Future?

New York State alone has:

- **50,000 miles of gas distribution pipelines**
- **37,000 miles of gas service lines**
- **4,500 miles of natural gas transmission lines**
- **5,500 natural gas gathering lines**
- **1,100 miles of crude oil products and natural gas liquids lines**



Stakeholder Engagement

Technology selection

Site specific goals



Economic
Development & Jobs

Co-pollutants