



Meeting the CLCPA

2021 Solar Summit

Climate Leadership & Community Protection Act

- CLCPA set goals for carbon reduction
 - Renewables (Solar, Wind, OSW)
 - Storage
 - Energy efficiency
 - Carbon reduction through transportation & heating
- 70% Renewable by 2030
- 100% Zero Emission Electric by 2040
- 85% Reduction in GHG Economy wide by 2050

Accelerated Renewable Energy Growth & Community Benefit Act

- Renewables Act set actions related to:
 - **New Permitting Processes**, Major Renewable Energy Development Program
 - **Build Ready Program**, Clean Energy Resources Development and Incentive Program
 - **Transmission**, State Power Grid Study, Program to Achieve CLCPA Targets, & Article VII improvements

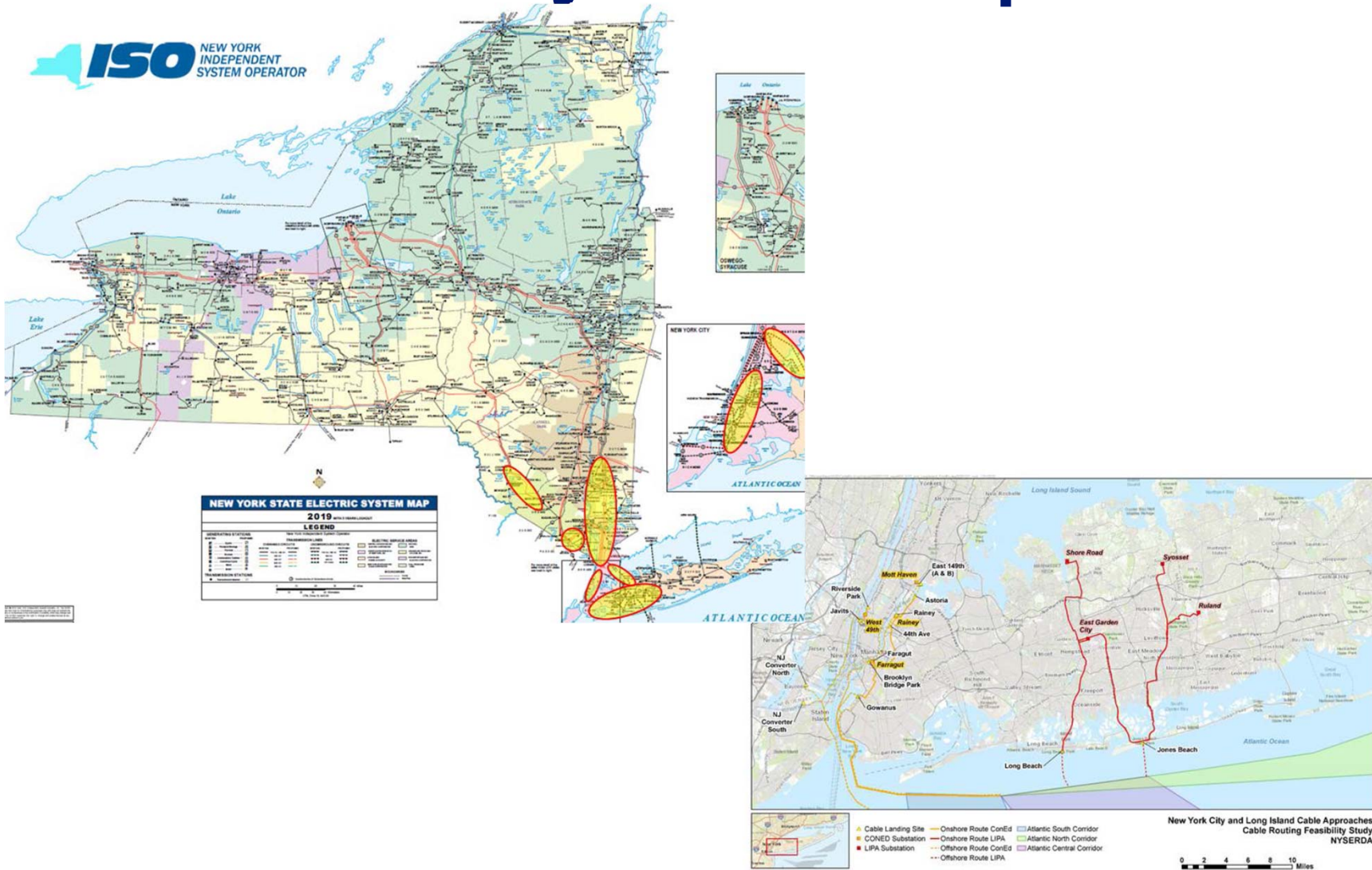
What is Central Hudson Doing?

- Planning for Renewables & Storage
- Investing in the Grid
- Interconnection Improvements
- Energy Efficiency Programs
- Heat Pump & Electric Vehicle Program

Planning for Renewables & Storage

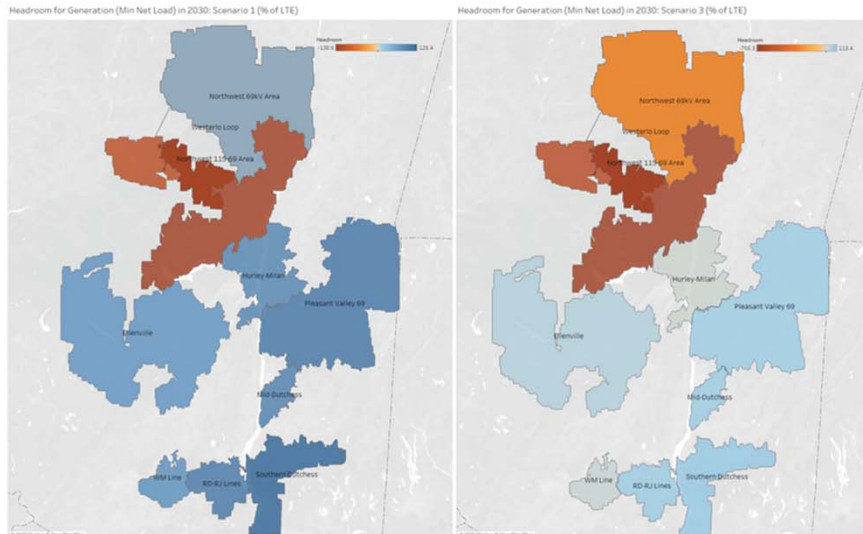
- Working with the NYISO, NYSERDA, and Staff to Study the Electric System
- Loads adjusted for Energy Efficiency, Heating, and Electric Vehicles.
- Identifying what is needed to meet the CLCPA goals
- Bulk and Local T&D studies completed to identify potential areas of need & solutions

Bulk Study Work Completed

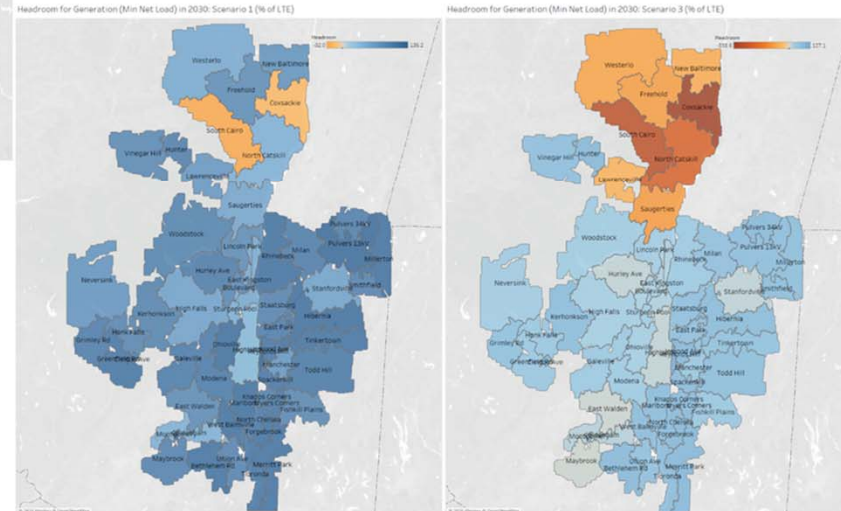


Local Study Work Completed

Transmission Area Headroom



Distribution Area Headroom



Investing in the Grid

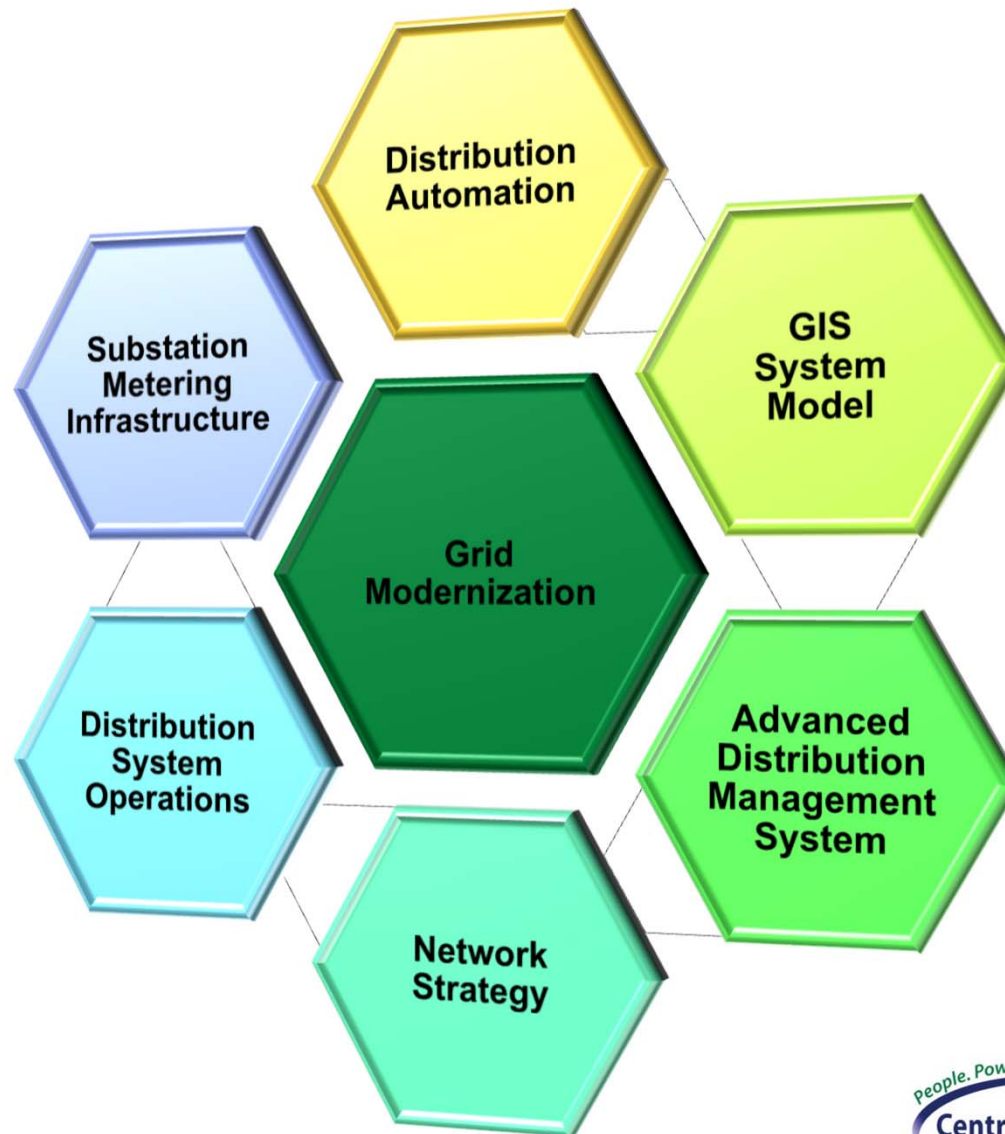
Capital Infrastructure Projects

- **Phase 1 Projects – also provide headroom**
 - **Copper Wire Replacement**
 - **Operating/Infrastructure Programs**
 - **Distribution Automation Program**
 - **Voltage Conversion Project**
- **Phase 2 Projects–increase renewable headroom**

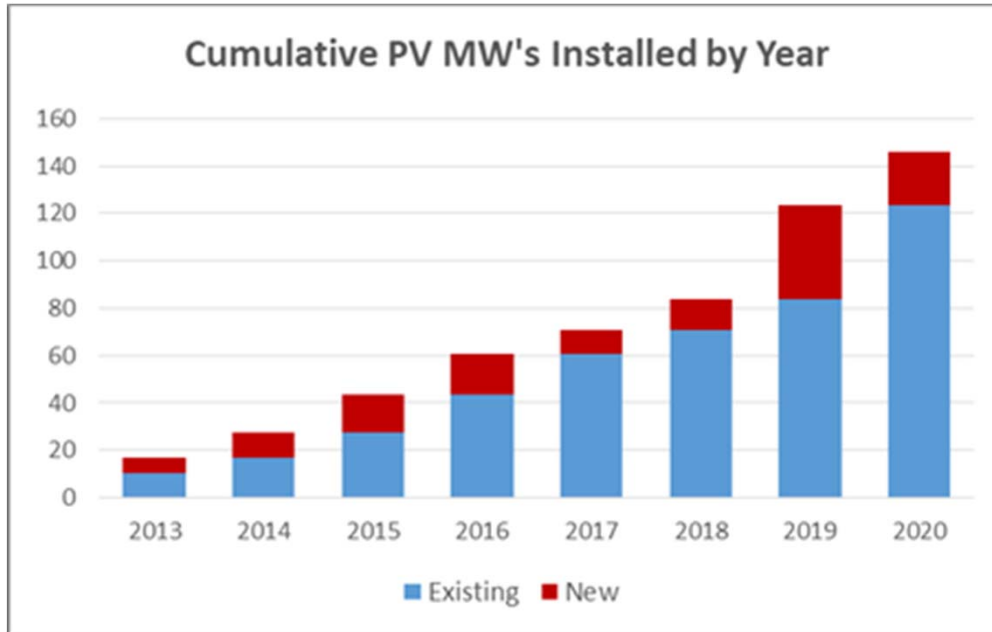
Enhanced Monitoring and Control

Battery Storage

Grid Modernization

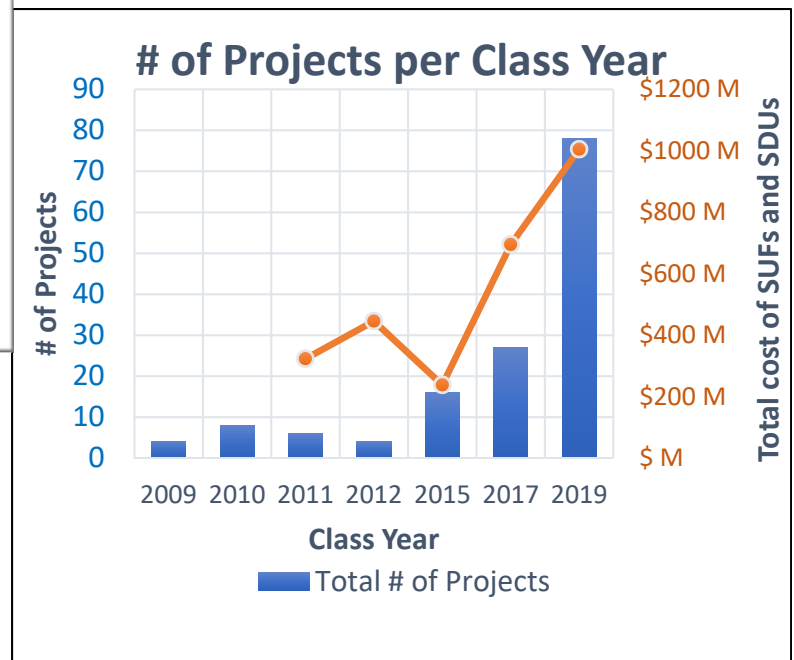


Interconnection Improvements



NY SIR Projects

NYISO Class Year Projects

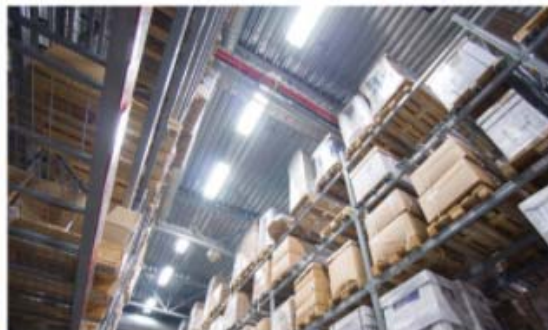


Interconnection Improvements

- More Staff to process applications, perform studies, and commissioning.
- Cost Sharing and Financing Proposals to improve development.
- Hosting capacity map improvements and data sharing.

Energy Efficiency Programs

- The most cost-effective way to reduce carbon and protect the environment.
- A full selection of products and programs for households and businesses.



Heat Pump and Electric Vehicles

- NYS Clean Heat Program
 - 12000 Heat Pumps through 2025

Mini-Split	Ducted ASHP	Geothermal
 <ul style="list-style-type: none"> • Two Units/Zones • Partial Load • \$6,500 Total Cost • \$1,400 Incentive • \$5,100 Net Cost 	 <ul style="list-style-type: none"> • Two Units/Zones • Full Load • \$14,000 Total Cost • \$5,900 Incentive • \$8,100 Net Cost 	 <ul style="list-style-type: none"> • Single Unit • Full Load • \$25,000 Total Cost • \$9,100 Incentive • \$15,900 Net Cost

- EV Make Ready Program
 - Public Chargers to relieve range anxiety

Where to Find More Information

- CLCPA Fact Sheet at climate.ny.gov
- Accelerated Renewable Energy Growth and Community Benefit Act at NYSERDA
- Central Hudson's 2020 DSIP filing
- Powering the Path to a Cleaner Future

