



Transmission Challenges and Opportunities

*New York's Climate Plan: Scoping the Path to
New York's Clean Energy Economy*

January 13, 2022

Opening Remarks



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Climate Leadership and Community Protection Act of 2019 (CLCPA)

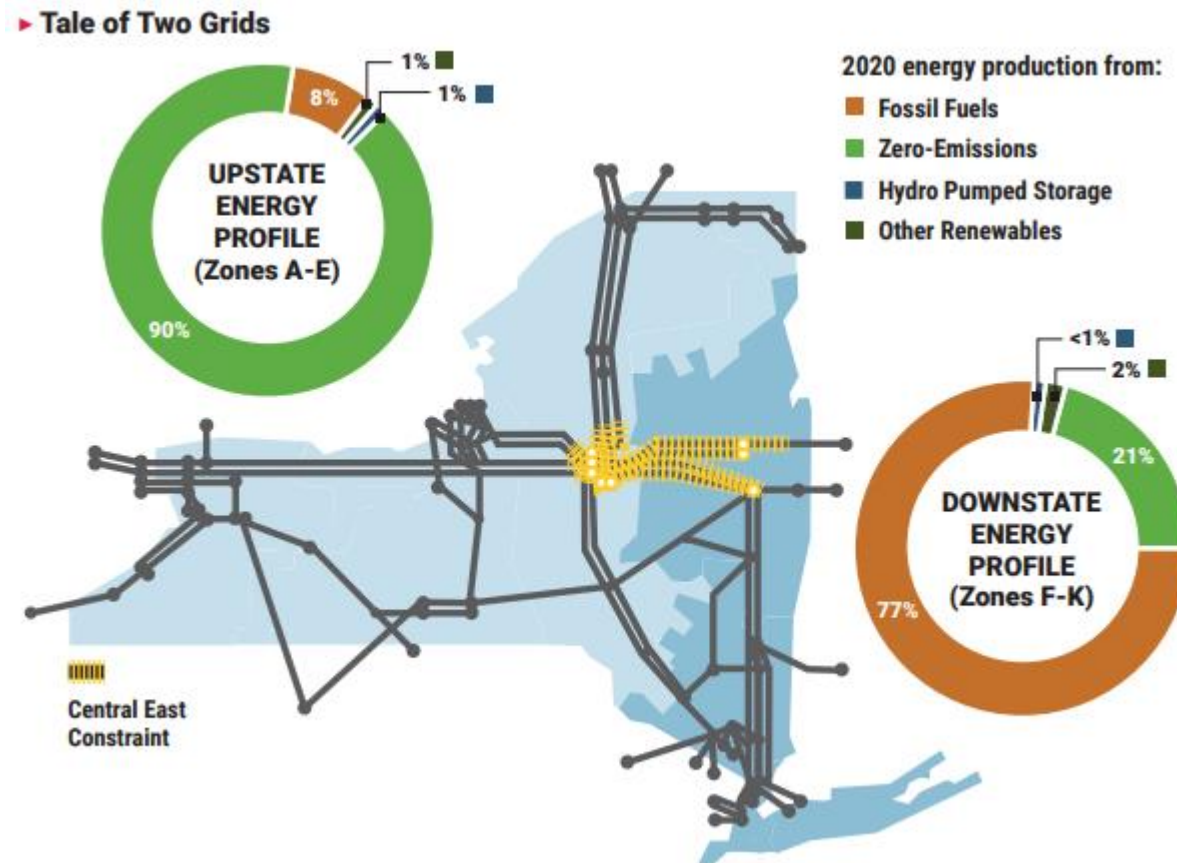
- 70% of statewide electricity come from renewable energy sources by 2030
- Zero-emission electricity grid by 2040
- 85% economy-wide greenhouse gas emission reductions by 2050, and 40% by 2030
- Deploy 9 GW of Offshore Wind by 2035
- Formed Climate Action Council to create scoping plan for achieving decarbonization goals

So why is transmission relevant?



New York 2020 Energy Production

- Downstate Grid (Lower Hudson Valley, NYC, and Long Island) = 77% fossil fueled-electricity.
 - Includes Indian Point which was deactivated in 2020-2021
- Upstate Grid = 90% Zero Emission electricity
- Key Factor: Transmission and generation siting constraints



Source: NYISO Power Trends 2021

NYS Climate Action Council Released Draft Scoping Plan (December 30, 2021)

- Electrifying buildings and transportation
 - Anticipates electricity demand growth of 65% to 80% by 2050 that will impact CLCPA's 70x30 and 100x40 requirements
- Recognizes New York's Tale of Two Grids
 - Advocates for investment in transmission upgrades "to deliver energy from where the generation is located (both upstate and offshore), to where the load demand exists, downstate"
 - Advocates for transmission and distribution expansion to reduce clean energy bottlenecks, reduce congestion, and optimize utilization of existing infrastructure
 - Calls for strategic investment by NYPA, LIPA and utility companies in T&D infrastructure
- Recognizes existing NYISO's Public Policy Transmission Planning Process and PSC's Tier 4 competitive solicitations as ways to facilitate transmission
- Database to track penetration and identify transmission headroom for Renewable Energy Zones
- System upgrades on Long Island and in New York City to facilitate 9,000 MW of offshore wind

NYISO Public Policy Transmission Process

- Two projects approved/under construction:
 - Western NY (utilize renewable energy from the Robert Moses Niagara Hydroelectric Power Station and imports from Ontario)
 - AC Transmission Projects (relieve congestion between upstate and southeastern NY interfaces)
- One project pending: Long Island/NYC Transmission Lines to Accommodate Offshore Wind
 - In March 2021, the PSC declared CLCPA offshore wind goals need additional transmission facilities to deliver offshore power from Long Island to the rest of New York State
 - PSC referred the identified need to the NYISO, which has solicited potential solutions. Process remains ongoing.

New York Tier 4 REC Solicitation (Pending)

- On November 30, 2021, NYSERDA and DPS Staff filed a petition before the PSC seeking approval of Tier 4 REC agreements for two transmission projects bringing renewable energy into NYC:
 - Clean Path NY project (1,300 MW) (upstate solar and wind)
 - Champlain Hudson Power Express (1,250 MW) (Canadian hydropower/wind)
- Noticed for public comment until February 2022

New York Power Grid Study/T&D Proceeding

- Mandated DPS, in consultation with NYSERDA, NYPA, NYISO, and utilities, to undertake a study to identify “distribution upgrades, local transmission upgrades, and bulk transmission investments that are necessary or appropriate” to the timely achievement of CLCPA climate targets
- Initial Power Grid Study released January 2021
 - No additional bulk transmission capability needed beyond planned upgrades (including one Tier 4 Project) to achieve the 70x30 target (with caveats)
 - Additional transmission needed to achieve 100x40 target and the 9,000 MW of offshore wind deployment goal

NYPA Priority Transmission Projects

- Authorized NYPA to develop transmission enhancements needed expeditiously to achieve CLCPA targets
- On October 15, 2020, the PSC approved NYPA’s request to develop proposed Northern New York Transmission Projects that accommodate incremental delivery of renewable energy

Article VII Reforms

- Expedited state transmission permitting processes under PSL Article VII

Infrastructure Investment and Jobs Act of 2021

- Appropriates \$2.5 billion to allow DOE to serve as an "anchor tenant" for a new/upgraded transmission line by entering into capacity contracts with transmission project owners/builders
 - No more than 50% of total capacity of line for no more than 40 years
 - Lines must carry at least 1 GW and can be either new build or replacement
- Appropriates \$3 billion for Smart Grid Investment Matching Grant Program to deploy technologies to enhance grid flexibility

FERC ANOPR Proceeding on Transmission Planning (July 15, 2021)

- Considers the need for more holistic transmission planning and cost allocation and generator interconnection processes, to plan the grid for the future, and to do so in a way that results in rates that are just and reasonable

Build Back Better Legislation (passage uncertain)

- Includes federal investment tax credit for transmission projects

- [NYISO Power Trends 2021](#)
- [Climate Leadership and Community Protection Act](#) (CLCPA)
- [Climate Action Council Draft Scoping Plan](#) (Chapter 13: Electricity)
- [NYISO Public Policy Transmission Planning Process Manual](#) (June 2020)
- [Tier 4 RFP-Related Documents](#) (Tier 4)
- [NYPSC Order Modifying the Clean Energy Standard \(Oct. 15, 2020\)](#) (Tier 4)
- [Case 15-E-0302](#), Clean Energy Standard Proceeding (Tier 4)
- [Accelerated Renewable Energy Growth and Community Benefit Act](#) (2020) (Part JJJ)
- [New York Initial Power Grid Study](#) (January 2021)
- [Infrastructure Investment and Jobs Act of 2021](#)
- [FERC ANOPR](#) (July 15, 2021)



Questions?



THANK YOU



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