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Northern New York Priority Transmission Project

December 11, 2020 ESPWG

Glenn Haake – Special Counsel
Girish Behal – VP Project & Business Development
Xia Jiang – Director Transmission Planning

December 7, 2020

Agenda

- Introduction, the ACRE ACT & Northern NY Project
- Project Overview
- Project Description and Diagram
- Q & A

Introduction, the ACRE Act & Northern NY Project

Glenn Haake

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Introduction

- Why are we here today?
  - At the request of NYISO, we are here to provide an overview of the genesis and timing of the Northern New York Priority Transmission Project (NNYPTP)
  - This is not an update to the NYPA Local Transmission Plan
- Please hold questions until each section is completed
- Questions related to the Solicitation of Interest (SOI) not answered in this presentation must be addressed to the Designated Contact Person, as identified in the SOI

ACRE ACT (2020)

- Accelerated Renewable Energy Growth & Community Benefit Act (the Act)
- Designed to facilitate and expedite achieving the CLCPA climate protection requirements via:
  - Comprehensive Power Grid Study
  - Distribution & Local Transmission Capital Plan
  - State-wide Bulk Transmission Plan
    - **NYPSC Identification of Priority Transmission Projects (PTPs)**
    - Competitive Solicitations through NYISO Public Policy Transmission Process
- 7-2-20: Joint NYSDPS/NYPA petition filed with NYPSC to (1) establish criteria for NYSPSC to use in identifying PTPs and (2) designate the proposed NNYPTP as a Priority Transmission Project under the Act
- 10-15-20: NYSPSC approves petition

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NNYPTP Solicitation Process

- The Act provides for a Solicitation of Interest (SOI) process when the project is substantially within NYPA rights-of-way
- SOI Schedule
  - 10-30-20: SOI Issued
  - 11-13-20: Notices of Intent to Respond (NIR) received
  - 11-23-20: Eligible Participants identified
  - 12-11-20: Target deadline for questions from Eligible Participants
  - 12-21-20: Deadline for responses to SOI
- All questions regarding SOI must be addressed to Jennifer Travis, Director, Category Management, Q20-7070JT@nypa.gov

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NNYPTP Project Overview

Girish Behal, VP Project & Business Development

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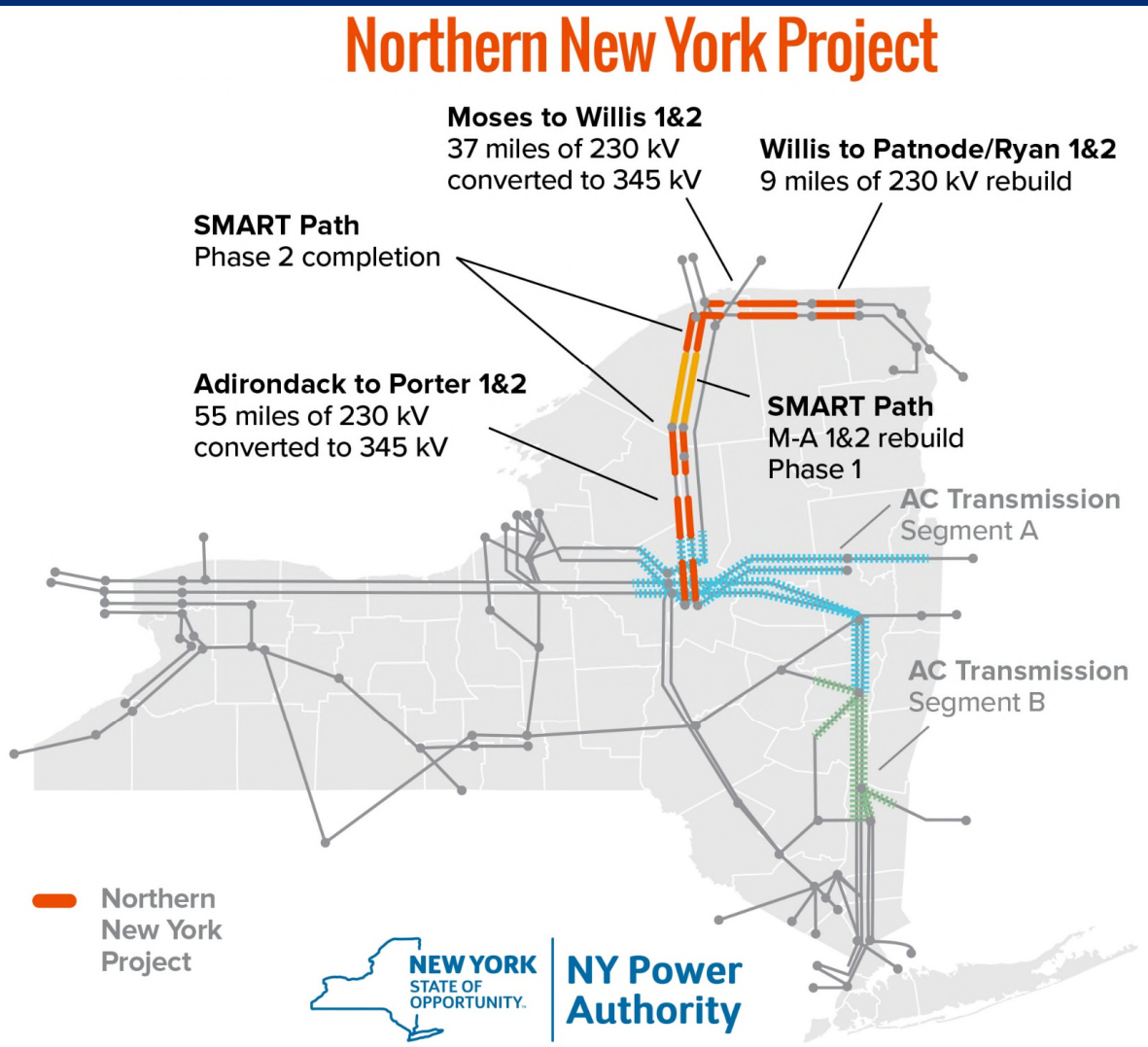
Project Components

- Creation of a Transmission Highway enabling an additional 1,000 MW of Clean Energy Transfer Capability
- Rebuild 100+ miles of transmission replacing existing wood H-frames with tubular steel poles to address:
  - Power Flow Capacity
  - Asset Condition
  - Resilience to Climate Change
- Replace/upgrade substations along the path
- Expected In-Service Date – Q4 2025



Project Benefits

- Production cost savings of ~$1.05B over 20-years;
- ~ $447 million in annual congestion savings in Northern New York;
- ~1.16 million tons of CO2 emissions avoided annually statewide, and an annual reduction of ~160 tons of NOx emissions from downstate emissions;
- Economic Development Opportunities throughout project corridor with >250 temporary/permanent jobs created;

- Avoided annual renewable curtailment starting in 2025: ~7.5 TWh;
- Affirms NYS Clean Energy Vision

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Project Description and Diagram

Dr. Xia Jiang, Director Transmission Planning

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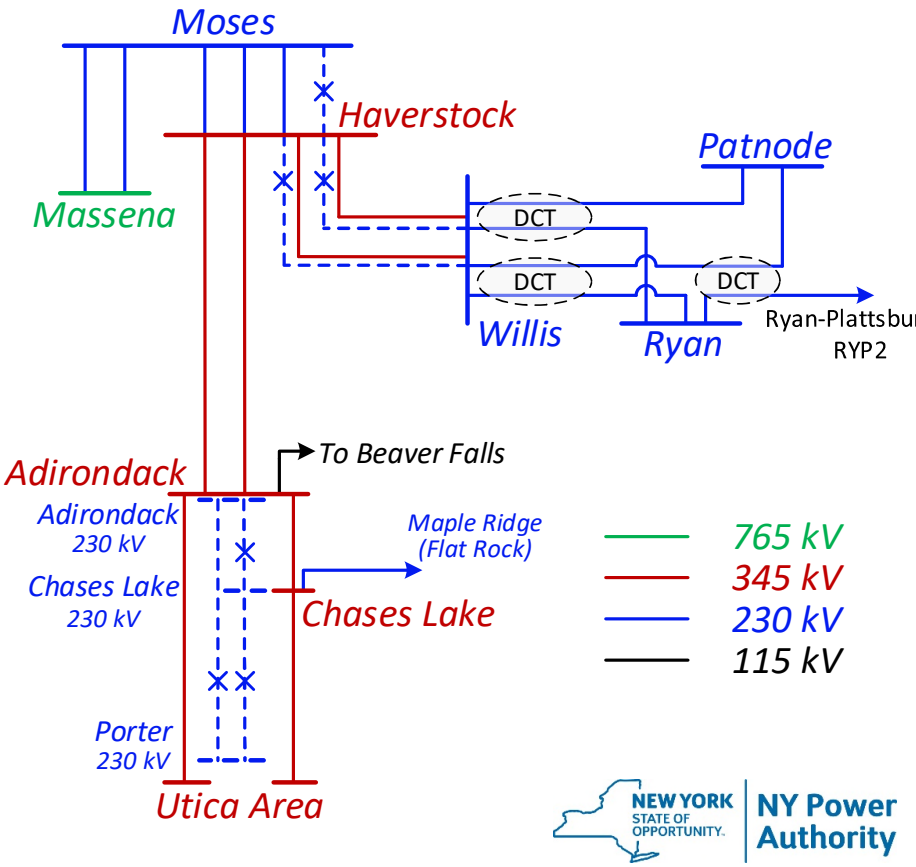
NNYPTP Description and Diagram

- Build a new Haverstock 345 kV substation and
  - o Complete Smart Path Phase II with modification to Haverstock;
  - o Loop three existing 230kV circuits (northern portion of MA1&2 and MW2) out from Moses 230kV Substation to Haverstock via 230/345 kV transformers;
  - o Rebuild existing Moses-Willis 230 kV lines (MW1&2) to Haverstock-Willis 345 kV lines and connect to the existing Willis 230 kV substation via 345/230 kV transformers;

- Rebuild existing Willis-Patnode 230 kV line and Willis-Ryan 230 kV line to each accommodate two 230 kV circuits. Each Willis-Patnode circuit shares towers with a Willis-Ryan circuit. One of the Willis-Patnode circuits shares towers with Ryan-Plattsburgh circuit;

- Rebuild existing Adirondack-Porter & Adirondack-Chases Lake-Porter 230 kV lines to 345 kV lines and connect to the existing 345 kV substation(s) in the Utica Area. Convert Chases Lake 230 kV substation to 345 kV and interconnect the existing generator; and

- Install series reactors on Moses-Massena 230 kV lines and install shunt capacitors and shunt reactors at a few substations.



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Q & A