



**NYISO Foundation to the Future Symposium:
Infrastructure, Innovation, Investment**



PANEL TALKING POINTS

**Richard Kessel
President and CEO
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Transmission Infrastructure Panel

- **Topic: The Future Vision of the New York State Power Grid**
Exploring the current and future state of New York's transmission infrastructure, focusing on the development of business drivers and public policies designed to meet economic, environmental and reliability needs. Discuss State and Federal efforts to further develop the transmission grid and integrate renewable generation.
- **Fellow Panelists:**
 - Moderator: Kevin Law, CEO & President of LIPA
 - Ed Krapels, CEO of Anbaric Holdings, LLC
 - Carl Meyer, President & CEO, Central Hudson Gas & Electric
 - Masheed Saidi, Executive VP & COO, US Transmission National Grid
 - Susan Tomasky, President, AEP Transmission

The Current State

- New York faces an aging transmission infrastructure and constrained wind generation in Upstate and Western New York placing a growing demand on the electric system.
- The integration of renewable generation has grown exponentially over the past five years and continues to grow.
- The intelligence of the grid is good but needs to be better in order to support the growing demand and more effectively and efficiently utilize resources.
- There are gaps in the existing cost recovery mechanisms to address infrastructure replacement and efficient integration of renewable resources into the New York market.

What does New York Need?

- A transmission project that will provide access to economical, reliable, clean energy from Canada for the benefit of New Yorker residents.
- A transmission project that will facilitate additional renewable energy development, specifically wind power generation in Western and Northern New York State and will relieve “bottlenecks” that inhibit the delivery of electricity from existing wind generators to consumers in New York.
- Transmission improvements that will enhance the safe and reliable operation of the New York State electric system with the intelligence to react and recover from emergencies faster.

The Future State

Improvements to the NYS Transmission System should:

- **Aid in the Implementation of the State's RPS**
 - Integration of Renewable / Wind Power Generation
 - Integration of Clean Hydro Power Imports from Canada
 - Development of electric storage technology and Plug in Hybrid technology to maximize the utilization of wind generation in Upstate and Western New York
- **Utilize Smart Grid Technology**
 - Advanced Sensors and Monitoring equipment
 - Advanced Conductors
 - High Speed Communications
 - Substation Automation equipment
- **Improve the Efficient Flow of Electricity Throughout the State**
 - Optimize System Resources
 - Reduce Greenhouse Gas Emissions
 - Rebuild Aging Transmission Infrastructure And Eliminate Existing Transmission System Constraints
 - Accommodate Future Load Growth

How Can We Make this Happen?

- Electricity Deliverability and Energy Reliability Grants program administered through the Department of Energy
- Transmission Owners Collaborative
- EPRI Supported Projects
- Collaboration with NYISO and Stakeholders
- The Existing Cost Recovery and Cost Allocation processes must be reviewed and modified as necessary to address needs related to the replacement of aging infrastructure and the efficient integration of renewable resources into the New York market.