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## NYISO reports being in good shape for resiliency

March 13, 2018



### ISO confident in working to enhance grid service

NYISO told FERC Friday it is already poised to meet the challenges brought about by the transformation of the bulk electric system. The grid operator remains confident it can work collaboratively with stakeholders to develop and implement the market and procedural enhancements to keep serving New York's energy needs.

"The trajectory of transformation in New York envisions a future that involves significantly increased production from solar, onshore and offshore wind resources, and a proactive consumer sector driving increasing levels of distributed generation and shifting historical patterns of energy consumption," NYISO said. "The transition to a cleaner, greener, and more integrated grid that relies on both central power stations and distributed resources will require a modernized, upgraded, and expanded transmission system."

Transmission is a key enabler of many of the changes coming to the grid and the ISO this year is starting a comprehensive re-evaluation of its planning process. The ISO will also evaluate the opportunities to leverage competitive wholesale market products and services to bolster the resiliency of New York's bulk power system – especially in critical locations such as New York City.

The grid operator is re-evaluating the current ancillary services products and shortage-pricing values, ensuring market price signals continue to give incentives to resource performance consistent with dispatch instructions, and assessing changes to the measurement of capacity supply resource availability to more accurately reflect resource performance during critical operating periods.

Other market changes include evaluating deliverability and performance requirements for external capacity resources, assessing opportunities for enhancements to interregional transaction scheduling, and more fully integrating storage and distributed energy resources (DERs) into the market.

NYISO told FERC it supports the commission's proposed definition of resilience: "The ability to withstand and reduce the magnitude and/or duration of disruptive events, which includes the capability to anticipate, absorb, adapt to, and/or rapidly recover from such an event."

Reliability and resilience are not necessarily separate and distinct concepts in relation to the electric system, and the two concepts are highly intertwined and often indistinguishable, it added. The ISO agrees with Commissioner Cheryl LaFleur that resilience is an element of the existing reliability requirements.

Existing reliability rules require a forward-looking design of the system to withstand multiple contingency events and let it absorb the impact of the loss of multiple facilities, advanced operational planning of the system to meet a single contingency event without disruption, and redundancy and rapid recovery. "Resiliency that goes beyond traditional measurements of reliability includes measures that could assist in more expeditious recovery from disruptive events," NYISO said.

"In this way, resiliency is closely linked to the importance of maintaining and expanding interregional interconnections, the building out of a robust transmission system, and the evaluation of additional resources, resource capabilities, and services in critical areas such as energy storage, that could support rapid recovery from system disturbances."

Resiliency could also involve steps that go beyond ensuring the incremental reliability needed to reliably run the system. Planning aimed at easing the response to extreme contingency events should be evaluated, with an eye toward the costs and benefits, it added.