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**Report on**  
**CURRENT MARKET INITIATIVES RELEVANT TO RELIABILITY**  
**July 13, 2018**

**1) Market Assessment for Accommodating Public Policy**

The NYISO will assess the impacts of decarbonization goals on the current NYISO energy and capacity markets from the high penetration of low carbon or carbon-free resources and consider whether new market products or changes to the existing market structure will be necessary to meet the anticipated reliability needs.

**Implications to Reliability:** Improved incentives to provide necessary services and products to enhance reliability.

**Update:** The NYISO is considering a broad spectrum of market product and structural enhancements that may be necessary to incent market participants to meet the reliability needs anticipated with 50% renewable generation. The NYISO has completed its simulation of potential market conditions and initiated discussions on possible reforms with stakeholders. Based upon these discussions and input from the stakeholders, the NYISO has developed and released their recommendations for evolving the wholesale markets. The recommendations build upon the success of wholesale markets to efficiently achieve the necessary resource characteristics to reliably meet energy needs and public policy objectives.

**2) Distributed Energy Resources**

To ensure NYISO markets are capable of integrating Distributed Energy Resources (DERs) in greater numbers and to provide clarity as to how they can realize value for their services, NYISO staff has engaged Market Participants in the development of a DER Roadmap. The roadmap seeks to build a 3-5 year plan for market enhancements that better integrate DERs into NYISO's markets.

**Implications to Reliability:** Enhanced system reliability and resiliency through distributed resource availability and active management of load consumption based upon market conditions.

**Update:** The NYISO and stakeholders are engaged in the development of a DER Participation Model to support resource integration into the wholesale markets. The model development is expected to complete in 2018

### 3) Energy Storage Resources

As the grid evolves, Energy Storage Resources (ESRs) contribution to maintaining a reliable and cost effective grid is expected to grow. ESRs such as pumped hydroelectric generators, flywheels, and batteries can supply electricity to the grid to meet demand, and can withdraw electricity from the grid to alleviate excess supply. ESRs can promote more reliable and efficient operation of the electric grid, particularly when paired with intermittent renewable generation. The NYISO is currently engaged in developing a new market design concept that reflects ESR technological advancements and policy development to allow wholesale grid operators and ESR managers to take better advantage of ESR capabilities.

**Implications to Reliability:** Enhanced system reliability and resiliency through access to flexible resources valuable in balancing intermittent resource output.

**Update:** On February 15, 2018, the FERC issued Order No. 841, designed to facilitate greater participation by electric storage resources in organized wholesale electric markets. The Order requires a compliance filing by November 2018 and implementation of the changes in December 2019. NYISO and stakeholders are engaged in the completion of an Energy Storage Resource participation model.