Market Assessment with 50% Renewable Generation

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Market Issues Working Group

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Previous Presentations

Date	Working Group	Discussion points and links to materials
9-12-16	Budget & Priorities Working Group (BPWG)	Presentation of stakeholder feedback, proposed scope of the project
10-19-16	Market Issues Working Group (MIWG)	Presentation providing more detail on the scope and timeline of the project
11-22-16	Market Issues Working Group (MIWG)	Presentation updating project status
1-31-17	Market Issues Working Group (MIWG)	Integrating Public Policy Update (Phases 1 and 2)
2-16-17	Market Issues Working Group (MIWG)	Phase 2: Study Description and Assumptions Review
3-28-17	Market Issues Working Group (MIWG)	Phase 2: Study Description and Assumption Update
4-24-17	Market Issues Working Group (MIWG)	Phase 2: Preliminary DAM Results
6-21-17	Market Issues Working Group (MIWG)	Phase 2: Real-time Study Description and Assumptions
7-13-17	ICAP Working Group (ICAP WG)	The ICAP Market - Preliminary Findings (Phase 2)
8-22-17	ICAP Working Group (ICAP WG)	IPP Phase 2 Capacity Market Results and background information
8-25-17	Market Issues Working Group (MIWG)	IPP Phase 2: Simulation Progress
9-25-17	Market Issues Working Group (MIWG)	IPP Phase 2: RT Energy Market Simulation Results



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Integrating Public Policy Project

The Brattle Group Work

Carbon Pricing:

Study whether incorporating a state policy defined cost of carbon in the wholesale market would improve the overall efficiency of the NYISO energy and capacity markets

Market Impact Assessment of 50% Renewable Generation:

Study the impacts of decarbonization goals on the current NYISO energy and capacity markets from the high penetration of low carbon or carbon-free resources

Market Structure Assessment of 50% Renewable Generation:

NYISO Work

Study whether other market products or changes to the existing market structure will be necessary to meet the anticipated reliability needs



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Market Assessment Paper

- The NYISO will consider all ideas as it develops the Market Assessment Whitepaper
- The whitepaper intends to cover the following topics
 - Market Impact Assessment with 50% renewable generation: The paper will discuss the analysis performed and findings from the analysis
 - Market Structure Assessment with 50% renewable generation: The paper will discuss the market concept ideas considered and provide recommendations on which market products or changes to the existing market structure would best support the wholesale market goals of attracting resources that support New York's future transmission reliability needs at the lowest cost for the customer



Market Structure Assessment Process

- The NYISO requests <u>your</u> thoughts and feedback on specific market design ideas that would support the market goals of maintaining reliable electric service at the lowest cost to customers
 - Presentations from Market Participants are encouraged at the November 2, 2017 MIWG meeting
- Please submit ideas to <u>IPP_feedback@nyiso.com</u> by November 2, 2017
 - All submissions will be posted on the NYISO's website
- Promising market concept ideas will be further developed in 2018 as part of the continuation of the Integration Public Policy project



Next Steps

- Email ideas to: <u>IPP_feedback@nyiso.com</u>
 - All submissions will be posted on the NYISO website
- October 16, 2017 Kickoff discussion on potential concepts and ideas
- November 2, 2017 Further discussion of potential concepts and ideas
 - Contact Mike DeSocio (<u>mdesocio@nyiso.com</u>) or Debbie Eckels (<u>deckels@nyiso.com</u>) if you would like to present your ideas at the November 2, 2017 MIWG
- December Release Market Assessment Whitepaper
- December 20, 2017 Discuss Market Assessment Whitepaper



Questions?

We are here to help. Let us know if we can add anything.



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The Mission of the New York Independent System Operator, in collaboration with its stakeholders, is to serve the public interest and provide benefits to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policy makers, stakeholders and investors in the power system



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