

BTM:NG ICAP Tariff Revisions

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Topics

- ◆ **BTM:NG Initiative Overview and General Concepts for BTM:NG Resource Participation in NYISO Markets**
- ◆ **Benefits of BTM:NG Resources**
- ◆ **Overview of BTM:NG ICAP Tariff Revisions**
- ◆ **Next Steps**
- ◆ **Appendix**

BTM:NG ICAP Review

The NYISO has reviewed BTM:NG ICAP concepts at previous working group meetings.

- ◆ **ICAPWG on March 18, 2015**

http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_icapwg/meeting_materials/2015-03-18/BTM_ICAP%20WG%20%2003_18_15.pdf

- ◆ **Joint ICAPWG/MIWG/PRLWG on May 18, 2015**

http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_icapwg/meeting_materials/2015-05-18/BTM_NG%20NYISO%20Markets_DMNC_Coincident%20Peak_ICAPWG_for%20posting.pdf

- ◆ **ICAPWG on May 28, 2015**

http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_icapwg/meeting_materials/2015-05-28/agenda%20%20Potential%20MW%20for%20CRIS_ICAPWG%205-28-15.pdf

- ◆ **ICAPWG on July 23, 2015**

http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_icapwg/meeting_materials/2015-07-23/BTMNG%20Capacity%20Market%20_7-23-15%20ICAPWG_final.pdf

- ◆ **Joint ICAPWG/MIWG/PRLWG on August 24, 2015**

http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_icapwg/meeting_materials/2015-08-24/BTMNG%20Capacity%20Market%20-examples-08-18-15-final.pdf

- ◆ **Joint ICAPWG/MIWG/PRLWG on September 4, 2015**

http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_icapwg/meeting_materials/2015-09-04/BTMNG%20Market%20Concepts-ICAPWG-MIWG%209-4-15-final.pdf

- ◆ **BIC on September 16, 2015**

http://www.nyiso.com/public/webdocs/markets_operations/committees/bic/meeting_materials/2015-09-16/agenda%207%20pres%20BTMNG_BIC_091615.pdf

General Concepts for BTM:NG Resource Participation in NYISO Markets

BTM:NG Resources

- ◆ A BTM:NG resource is a facility that has on-site generation capability that routinely serves its host Load and has excess generation capability after serving that host Load
- ◆ BTM:NG resources will be allowed to participate in:
 - *Energy Market*
 - *Capacity Market*
 - *Ancillary Services Market*

Benefits of BTM:NG Resources

- ◆ **Access to this additional supply may:**
 - *Improve grid reliability and operational flexibility*
 - *Provide more clarity and certainty for future resource investment within New York State*
 - *Improve awareness of resources not currently participating in the NYISO wholesale markets*

General Eligibility Requirements for BTM:NG Resources

- ◆ Each BTM:NG resource must:
 - *Be designed and operated to facilitate the business function of the on-site load by providing electricity in the regular course of business;*
 - *Meet NYSDEC requirements to operate under non-emergency conditions;*
 - *Have an effective interconnection agreement;*
 - *Meet minimum net generation requirements;*
 - *Have appropriate metering configurations; and*
 - *Be responsive to dispatch instructions for each PTID as a single entity interfacing with the grid*

Participation Requirements

- ◆ To qualify as a BTM:NG resource, a minimum of 1 MW of Average Coincident Host Load will be required
 - *Host Load includes all electrically connected loads within the defined electrical boundary served by the on-site generation*
- ◆ The behind-the-meter generator must have a nameplate rating of greater than 2 MW
- ◆ The interconnection must also allow an export (injection to the grid) of at least 1 MW
 - *Multiple injection points at lower voltages may be acceptable provided they aggregate to a single injection into the NYS Transmission System*
- ◆ Each BTM:NG resource must have a revenue grade TO net meter at each interconnection point from the BTM:NG resource to the distribution or transmission system
- ◆ The BTM:NG resource must have telemetry and, if bidding flexibly, be able to follow dispatch instructions from NYISO via the connecting TO
 - *Direct communication with the NYISO is permitted as a secondary communication path*

BTM:NG Resource Facility Configurations

- ◆ Participation at a facility will be either:
 - *As a single generator serving a host load*
 - Required to provide reserves if bidding flexibly
 - Offering regulation service is optional
 - *As an aggregated set of generators serving a host load*
 - Required to provide 10 min non-spin and 30 minute reserve products if bidding flexibly
- ◆ The ISO shall review and approve each facility seeking to participate as a BTM:NG resource

ICAP Tariff Revisions Overview

Overview of MST Revisions

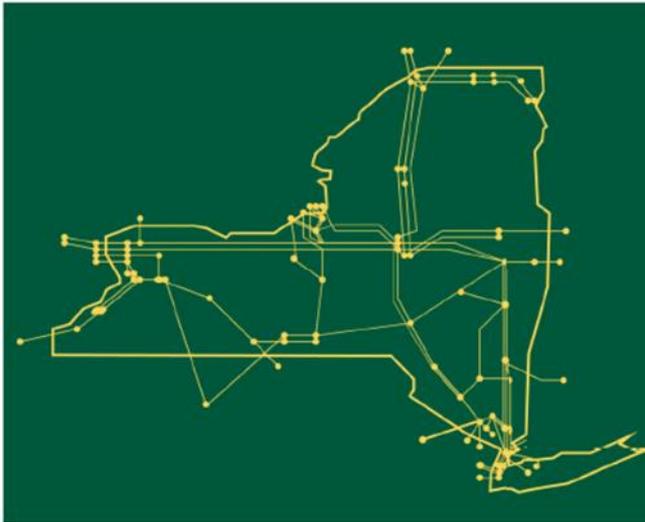
- ◆ **Definitions – New and updates**
- ◆ **Sections 5.10 – 5.12 – Updates, with the majority being in Section 5.12**
- ◆ **Attachment H – Updates**
- ◆ **Based on feedback at the last ICAPWG we will review the revisions in “page turner” fashion**

Next Steps

◆ **Tariff Revisions and Review**

- *Joint ICAPWG/MIWG/PRLWG (Oct. 23, 2015)*
- *Joint ICAPWG/MIWG (Oct. 26, 2015)*
- ***Joint ICAPWG/MIWG/PRLWG (Nov. 9, 2015)***
- ***BIC (December 2015)***
- ***MC (December 2015)***
- ***Board Approval (January 2016)***
- ***Filing (February 2016)***
- ***Implement (Q4 2016) – Contingent upon timely approval from Market Participants, the NYISO Board of Directors and FERC***

The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



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