

NYISO Consumer Interest Liaison Weekly Summary

August 26 – August 30, 2019

Notices:

- Building off the successful July launch of the NYISO's podcast, "Power Trends," on August 27, 2019 the NYISO unveiled the second episode in the ongoing series. The episode, "**Clean Energy, Climate Change, and Creating a Culture of Evolution**," includes an interview with NYISO's newly-installed Executive Vice President, Emilie Nelson. [Podcast](#)
- The [clean](#) and [redline](#) versions of NYISO Installed Capacity Manual (M-04), have been posted to the [Manuals, Technical Bulletins & Guides webpage](#) under Manuals, Under Review. All proposed changes will be presented at the September BIC.
- **Additional stakeholder comments (NYPA) on cost containment** for the public policy transmission planning have been posted to the August 20 ESPWG-TPAS-ICAPWG meeting [here](#).

Meeting Summaries:

Wednesday, August 28, 2019

Budget and Priorities Working Group

Energy Management System Project Update

Diane Peluso of the NYISO reported on the progress of the Energy Management System/Business Management System (EMS/BMS) installation. The EMS/BMS upgrade, developed by ABB, will replace the current Ranger system implemented in 2005. In response to a stakeholder question, Ms. Peluso noted that there will be no stakeholder facing changes to interaction with the new system. Ms. Peluso described the production issues that resulted in the Go-Live date being delayed from April 1, 2019 to October 2019.

On August 20, 2019 the NYISO began parallel testing for a period of six weeks. Testing is focused on the daily operations of the EMS/BMS system in comparison with the existing Ranger system. This process allows for all Operations personnel to use both systems concurrently.

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The project is tracking for completion within the budget of \$33.7M. The Go-Live schedule is currently targeted for mid-October 2019. Periodic updates on the progress of the project will be made to the BPWG including the communication of a confirmed Go-Live date. To see the complete presentation, please go to: <https://www.nyiso.com/documents/20142/8071321/02%20EMS%20BMS.pdf/ef30e100-c3d4-20a7-526f-841ac9125e57>

2020 Initial Project Budget Recommendation

Brian Hurysz of the NYISO presented the initial recommendation of the 2020 project budget. NYISO began this process with a list of potential project suggestions for the market and solicited project proposals from stakeholders. Costs and benefits for each project candidate were provided to inform stakeholders on the value and cost of each project. Following a survey in which stakeholders assigned weighted scores to each project candidate, the NYISO evaluated the support for project candidates and the resources available to complete each project. After considering the projects determined to be mandatory or continuing from the previous year, the recommendation consists of 45 projects that have the highest support and that the NYISO can effectively undertake in 2020.

A new milestone was introduced for 2020, Issue Discovery. The Issue Discovery milestone will have NYISO facilitate education sessions for stakeholders. The NYISO will also conduct stakeholder solicitation of potential solutions to address the identified problems/issues. Finally, the NYISO will summarize the findings at a working group meeting for future project identification and potential ranking in the project priority process.

Mr. Hurysz detailed each recommended project for stakeholder discussion. A project titled Comprehensive Mitigation Review, was changed from the milestone of Study Defined to Market Design Complete in the recommendation. Some stakeholders objected to the change and requested that the project be reconsidered for a Study Defined milestone. The NYISO noted the feedback for internal review.

The total budget for the recommended projects, market and enterprise, is projected at \$31.69M for 2020.

Mr. Hurysz noted stakeholder feedback and encouraged additional written comments on the initial project budget recommendation. The NYISO will consider feedback and return to the September 9, 2019 BPWG for additional discussion.

To see the complete presentation, please go to:

<https://www.nyiso.com/documents/20142/8071321/03%20Initial%20Project%20Budget%20Recommendation.pdf/c5391f86-c0a5-e8c1-cbfb-afd0bdc98cc0>

2020 Consumer Impact Analysis – Project List

Tariq Niazi of the NYISO presented the projects that have been identified for Consumer Impact Analysis in 2020. Each year following the initial project budget recommendations, the Consumer Interest Liaison consults with NYISO product and project management to determine which projects should be evaluated for potential impact to consumers. Each selected project is evaluated based on its impact on cost, reliability, the environment and transparency.

Seven projects have been identified for Consumer Impact Analysis for 2020. The projects consist of:

- *5 Minute Transaction Scheduling*
- *Relocating the IESO Proxy Bus*
- *Reserving Capacity for TCC Balance-of-Payment Auctions*
- *Tailored Availability Metric*
- *Enhancing Fuel and Energy Security*
- *Enhanced BSM Mitigation Study Period*

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- *Hybrid Storage Model*

Mr. Niazi detailed each project and explained why it was selected for analysis. A stakeholder objected to the selection of the Hybrid Storage model due to uncertainty of the design and the long lead time prior to implementation.

Additional comments are encouraged and can be sent to bullock@nyiso.com.

To see the complete presentation, please go to:

<https://www.nyiso.com/documents/20142/8071321/04%20CIA%202020%20Project%20List.pdf/591ec58-05ce-44cd-0876-577152da45f5>

Thursday, August 29, 2019

Joint Installed Capacity/Market Issues/Price Responsive Load Working Group

External Capacity Performance & Obligations Deliverability & Eligibility

Amanda Carney of the NYISO presented additional information on the External Capacity Performance & Obligations project. NYISO had previously discussed IESO and ISO-NE deliverability and external SRE (Supplemental Resource Evaluation) penalties in prior ICAPWG/MIWG meetings. This presentation pertained to the external capacity deliverability and eligibility for Hydro Quebec (HQ). Ms. Carney noted that following several conversations with HQ, the NYISO does not believe that manual changes are necessary with regard to deliverability requirements for HQ capacity suppliers. The NYISO and HQ are in the process of establishing a joint operating procedure that will outline operating and curtailment procedures for capacity-backed transactions.

Ms. Carney also presented proposed ICAP Manual changes pertaining to external capacity deliverability, particularly for resources from IESO and ISO-NE in Sections 4.9.1 and 4.9.3 of the ICAP Manual. The proposed deliverability changes to the ICAP Manual will be presented for approval at the September 11, 2019 BIC meeting.

To see the complete presentation, please go to:

<https://www.nyiso.com/documents/20142/8103377/External%20Capacity%20Performance%20and%20Obligations.pdf/f2a5fb93-65e7-071a-9d9c-ab6cfec087e6>

Q2 State of the Market Report

Dr. Pallas LeeVanSchaick of Potomac Economics (MMU) presented the State of the Market report for Q2 2019. Dr. LeeVanSchaick led a review of market highlights for the quarter. It was noted that all-in prices declined for Q2 2019 as compared to Q2 2018. Dr. LeeVanSchaick reported that congestion costs rose in comparison to Q2 2018 primarily due to constraint issues in the West Zone. Several other market highlights were summarized and explained for discussion with stakeholders. The report concluded that the NYISO energy markets performed competitively in Q2 2019. To see the complete presentation, please go to:

<https://www.nyiso.com/documents/20142/8103377/NYISO%20Quarterly%20Report.pdf/f72312e6-c893-08a9-fcaa-ad3b51e3a6c4>

To see the complete Q2 State of the Market report, please go to:

<https://www.nyiso.com/documents/20142/8107780/NYISO-Quarterly-Report-2019-Q2-8-23-2019.pdf/c6c78aa3-ef0b-dba1-837e-c24c85e53106>

2019 Master Plan: Final Draft & Discussion

Ryan Patterson of the NYISO presented a final draft of the 2019 Master Plan. The Master Plan is developed to:

- *Establish a clear framework for achieving the NYISO's vision of the future wholesale markets*

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- *Align the objectives for the next five years with the most recent Strategic Plan (2019-2023)*
- *Support annual stakeholder-driven project prioritization efforts*

Projects were presented and discussed with stakeholders based on the initiative they are developed to address. The “Grid Reliability and Resilience” group includes projects that serve to maintain reliability and efficient operation of the grid under normal, stressed, and extreme conditions. The “Efficient Markets for Grid in Transition” grouping addresses current and future products for how they support price formation, flexibility and resilience in a future with high renewables, energy storage, and distributed energy resources (DER). The “New Resource Integration” grouping is meant to develop the participation models for new resource types, such as storage, DER, and aggregations.

Mr. Patterson presented the projects by product grouping and provided stakeholders the opportunity to discuss each project. A timeline was also provided to illustrate to stakeholders the priority of the projects as well as indication of when NYISO resources could address each issue.

The NYISO will consider feedback in developing the final Master Plan for release in December 2019 in conjunction with the 2020 Business Plan. To see the draft final Master Plan presentation, please go to:

<https://www.nyiso.com/documents/20142/8103377/8.29.2019%20ICAPWG%20Master%20Plan%20Final%20Draft%20v3.pdf/9e5b132b-2472-930f-c89c-8bb255b8ff11>

Friday, August 30, 2019

Load Forecasting Task Force

Initial NYISO 2020 Forecast

Arthur Maniaci of the NYISO presented initial information that will be used to determine the 2020 ICAP forecast. The summer coincident peak and locality peaks for Summer 2019 are as follows:

Location	Date	Hour Beginning	Hour Ending	MW
2019 NYCA Summer Coincident Peak	7/20/2019	16	17	30,397
2019 Zone J Locality Peak	7/17/2019	17	18	10,802
2019 Zone K Locality Peak	7/21/2019	17	18	5,438
2019 Zone G-to-J Locality Peak	7/17/2019	17	18	14,677

Mr. Maniaci also led a review of the timeline for the development of the 2020 ICAP Forecast. The process began with a 2020 Economic Outlook presentation by Moody’s Analysis in August 2019 and will conclude with the posting of the Final 2019 ICAP Forecast scheduled for December 23, 2019.

To see the complete presentation, please go to:

https://www.nyiso.com/documents/20142/8115627/2019_LFTF_Schedules.pdf/5a1bd9b3-ca30-9ac2-eb36-933ea8fed273

Load Forecast Manual Review

Arthur Maniaci of the NYISO presented updates to the NYISO Load Forecast Manual (Manual). The primary reasons for the revisions include:

- *Language for treatment of Behind-The-Meter Net Generation Resources (BTM:NG Resources)*
- *Change other sections of the Manual as needed or recommended by stakeholders*
- *As part of periodic Manual review process*

Mr. Maniaci led a review of the specific changes for stakeholder discussion. The NYISO will consider input from stakeholders and return to the LFTF for further discussion.

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To see the complete presentation, please go to:

<https://www.nyiso.com/documents/20142/8115627/03%20Load%20Forecast%20Manual%20Review.pdf/7007907f-f8a7-58d0-83d6-771420334ad0>

NYISO Climate Study – Preliminary Long Term Forecast

Representatives from Itron, Inc. (Itron) presented the preliminary long term forecast for the NYISO Climate Load Impact Study. The study was proposed by representatives from New York City for the 2019 project prioritization process to evaluate the potential impact of climate change on the New York State electrical grid.

Eric Fox of Itron began the presentation by noting that average temperature in New York has been increasing since the early 90's. Weather trend analysis is based on six weather concepts dating back to 1950:

- *Average annual temperature (avg)*
- *Average annual temperature for the coldest day (min)*
- *Average annual temperature for the hottest day (max)*
- *Annual cumulative temperature humidity index (CTHI) for the hottest day*
- *Heating degree days*
- *Cooling degree days*

Examples of the models to be used for each of the trends were provided for discussion with stakeholders. The methodology for the development of the models was presented and discussed to provide stakeholders insight into the process and an opportunity to comment. Adjustments were made to the forecast to accommodate anticipated new technologies such as:

- Solar
- Electric Vehicles
- Battery Storage
- Process Electrification

Preliminary system peak was established for 2020, 2030, 2040 and 2050. It was noted that the Peak Demand shifts out two hours by 2022. The system takes a fairly flat load profile in comparison to today's load. The Peak NYCA forecast is estimated to be 37,891 MW in 2050.

Changes due to the impact of weather in terms of energy usage were presented and discussed with stakeholders.

In response to a stakeholder question, Arthur Maniaci of the NYISO noted that this forecast represents a base case to work forward from. Additional scenarios will be developed to accommodate potential changes to the system.

The next step in the process will be to further evaluate the weather impacts. The load impact for potentially more extreme climate impacts will be evaluated. Load scenarios will also be developed for state public policy goals such as; solar, electric vehicles, battery storage and electrification.

To see the complete presentation, please go to:

<https://www.nyiso.com/documents/20142/8115627/ClimateStudy.pdf/33dba684-e424-967e-3936-2677b93ce399>

FERC Filings

There were no filings made to FERC by the NYISO for this week.

FERC Orders

There were no FERC Orders issued to the NYISO for this week.

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Filings and Orders:

http://www.nyiso.com/public/markets_operations/documents/tariffviewer/index.jsp