New York ISO
Independent System Operator

New Generator Assumptions in the IRM Study

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Agenda

- The purpose of today's presentation is to provide a dry run demonstration of the process for new generator assumptions in the IRM before the actual implementation for the 2022-2023 IRM study
- This presentation covers:
  - Background
  - Dry Run for Preliminary Base Case and Final Base Case
  - Next Steps

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Background

- **To provide transparency requested by stakeholders and to improve efficiency, the NYISO presented, at the February 3rd ICS meeting, the proposed NYISO process for determining new generator assumption recommendations for the IRM study**
- **The ICS supported the proposed process and recommended two changes to the filter criteria:**
  - The new generator Commercial Operation Date (COD) Criterion should be applied to generator changes that would occur prior to June 1st of the Study Year to better align with the NYSRC's Policy 5
  - The RNA input should be revised to the quarterly Short-Term Assessment of Reliability (STAR) input to capture the most updated information

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Dry Run for Preliminary Base Case (PBC)

- **During the PBC, the process will start in April with the following inputs:**
  - The published Gold Book (expected early April)
  - Interconnection Queue (IQ) (April snapshot)
  - The Q1 STAR Report (expected mid-April)
  - Inputs from customer registration
- **New generators will be filtered based on the established criteria:**
  - ✓ IQ Status ≥ 11 (executed Interconnection Agreement)
  - ✓ Class Year Study in progress or completed
  - ✓ COD Prior to June 1st of the Study Year
  - ✓ Customer registration in progress or completed
  - Plus new generators included in STAR with COD prior to June 1st of the Study Year
- **List of new generators that satisfy the filtering criteria will be presented and ICS will provide inputs on the next steps**
  - See example in next slide

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Example List of New Generators

- **Example of list of new generators that satisfy the filtering criteria. The next steps are based on the size of the generators**
  - Large generators with >20 MW, as defined in OATT Attachment X, will proceed to Detailed Review
  - Small generators with ≤20 MW, as defined in OATT Attachment Z, will be included in the IRM
- **ICS may recommend different next steps for any of the listed new generators, or consideration of additional new generators that do not satisfy the filter criteria**

EXAMPLE	Queue Position	Project Name	MW	COD	IQ Status	Etc.	Next Steps
Large Generators (> 20 MW)	No. n	Abc	Xxx	dd1	11	…	Proceed to Detailed Review
	No. m	Efg	Xxx	dd2	12	…	Proceed to Detailed Review
	…	…	…	…	…	…	…
Small Generators (≤ 20 MW)	No. n1	Abc1	Xx	dd3	11	…	To be included in the IRM
	No. m1	Efg1	Xx	dd4	11	…	To be included in the IRM
	…	…	…	…	…	…	…

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Dry Run for PBC – Detailed Review

- **For new generators that proceed to Detailed Review, the NYISO will conduct internal assessment to determine if these generators are expected to participate in the ICAP market prior to June 1st of the Study Year.**
- **The assessment will leverage NYISO internal information and the determination is made based on the answers to the following questions:**
  - Does the project have updated expected COD that is still prior to June 1st of the Study Year?
  - Does the project have updated status that demonstrates progress towards ICAP participation prior to June 1st of the Study Year?
  - Has the project progressed sufficiently in the registration process in order to participate in ICAP market prior to June 1st of the Study Year, such as completion of Energy Market registration or having an estimated date for synchronization to the system?
  - Does the developer plan to participate in the ICAP market?
- **NYISO will present recommendations based on the detailed reviewed assessment and ICS inputs will be captured prior to finalizing the study assumptions**
  - See example in next slide

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Example List of Recommendations

- **Example list of new generators with recommendations post the detailed review process**
  - Small Generators do not usually go through the detailed review process and therefore the recommendations for Small Generators normally remain unchanged
- **ICS may have input on the recommendations, which will be reflected when finalizing the IRM study assumptions**

EXAMPLE	Queue Position	Project Name	MW	COD	IQ Status	Etc.	Next Steps	Recommendations (post Detailed Review)
Large Generators (> 20 MW)	No. n	Abc	Xxx	dd1	11	…	Proceed to Detailed Review	To be included in the IRM
	No. m	Efg	Xxx	dd2	12	…	Proceed to Detailed Review	Not to be included in the IRM
	*** No. m2**	**Efg2**	**xxx**	**dd5**	**10**	**…**	**Proceed to Detailed Review**	To be included in the IRM
	…	…	…	…	…	…	…	
Small Generators (≤ 20 MW)	No. n1	Abc1	Xx	dd3	11	…	To be included in the IRM	To be included in the IRM
	No. m1	Efg1	Xx	dd4	11	…	To be included in the IRM	To be included in the IRM
	…	…	…	…	…	…	…	…

** Example of a prior ICS input to include one Large Generator that does not satisfy the filtering criteria to proceed to Detailed Review*

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Dry Run for Final Base Case (FBC)

- **During the FBC, the process will start around October with the following inputs:**
  - The published Gold Book
  - Interconnection Queue (October snapshot)
  - The Q3 STAR Report (expected mid October)
  - Inputs from customer registration
- **New generators will be filtered based on the established criteria:**
  - ✓ IQ Status ≥ 11 (executed Interconnection Agreement)
  - ✓ Class Year Study in progress or completed
  - ✓ COD Prior to June 1st of the Study Year
  - ✓ Customer registration in progress or completed
  - Plus additional new generators included in STAR with COD prior to June 1st of the Study Year
- **The process for the PBC will be repeated during the FBC stage, with ICS inputs captured both before and after the detailed review, and reflected in the final study assumptions**

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Next Steps

- NYISO plans to implement this process for the treatment of new generators in IRM Study assumptions starting the Preliminary Base Case for the 2022-2023 IRM study
- NYISO intends to continue improving the process for future IRM cycles based on updated analysis and lesson learned

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Questions?

Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit 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 policymakers, stakeholders and investors in the power system

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