

# ESR Bidding and Upload/Download Changes

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# Agenda

- **Background**
- **Changes to Upload/Download Templates**
  - New fields being added
- **Summary**
- **Q&A**

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# Background

# Previous Presentations

Date	Working Group	Discussion points
04-26-18	MIWG	<a href="#"><u>ESR Participation Model: Energy Level Management</u></a>
06-19-18	MIWG	<a href="#"><u>ESR Metering</u></a>
06-25-18	MIWG	<a href="#"><u>ESR Settlements: Charges when deviating from NYISO Base Points</u></a>
07-10-18	MIWG	<a href="#"><u>Energy Market Mitigation Measures for ESRs</u></a>
7-24-18	MIWG	<a href="#"><u>ESR Market Design Update</u></a>
7-24-18	MIWG	<a href="#"><u>ESR Settlements - DAMAP, RRAC, RRAP, and Balancing Energy</u></a>
08-07-18	MIWG	<a href="#"><u>Capacity Market Rules for ESRs</u></a>
08-14-18	MIWG	<a href="#"><u>Day-Ahead Margin Assurance Payments for ESRs</u></a>
08-23-18	MIWG	<a href="#"><u>Capacity Market Rules for Energy Storage Resources</u></a>
08-30-18	MIWG	<a href="#"><u>Scheduling ESRs</u></a>
08-30-18	MIWG	<a href="#"><u>ESR: Consumer Impact Analysis</u></a>
09-21-18	MIWG	<a href="#"><u>Capacity Market Rules for ESRs</u></a>
09-21-18	MIWG	<a href="#"><u>Mitigation Measures for ESRs</u></a>

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# Bid Parameters

# Bid Parameters

- All ESRs must submit values for the following parameters with their economic offers:
  - Normal Upper Operating Limit (MW)
  - Emergency Upper Operating Limit (MW)
  - Lower Operating Limit (MW)
  - Upper Storage Limit(MWh)
  - Lower Storage Limit(MWh)
  - Incremental Bid Curve
  - Market Choice( DAM/RTM)
  - Unit Operation
  - Beginning Energy Level MWh(DAM Only)
  - Energy Level Management (ISO/Self)
  - Opportunity Cost (Optional for all Generators)
    - Up to 11 points
    - Corresponds to the \$/MWh on the bid curve

Where **BLACK** = Existing Generator parameter and **BLUE** = New parameter available only to ESRs

# Summary

- **ESR will have the following new Bidding Parameters**
  - Lower Operating Limit (MW)
  - Upper Storage Limit(MWh)
  - Lower Storage Limit(MWh)
  - Beginning Energy Level (MWh) (DAM Only)
  - Energy Level Management (ISO/Self)
- **All Generators will have the option of providing Opportunity Cost**
  - Up to 11 points
  - Corresponding to the \$/MWh on the bid curve

# Next Steps

- Anticipating MIWG in June/July time frame



# Questions?

# 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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