

Engaging the Demand Side Discussion Preparation Materials

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Special Case Resource (SCR) Program

- The SCR Program enables non-dispatchable Demand Side Resources to sell capacity and provide Energy in the NYISO wholesale markets
- Market Participation is event-based
 - SCR response to a declared SCR event within a given month is mandatory if the SCR has sold capacity within said month and minimum event notification requirements are met:
 - The NYISO must issue a day-ahead notice at least 21 hours in advance of the SCR event if notification is provided by 3pm, or 24 hours in advance if the notification is provided after 3 pm on the day before the event,
 - The NYISO must also issue an in-day notification at least 2 hours in advance of SCR activation
 - SCRs are compensated for Energy provided during an SCR Event, or an SCR Test when the Market Participant submits the required data
- SCRs have a minimum offer requirement of 100kW
 - This 100 kW minimum offer requirement can be met by a standalone SCR or in aggregate, when multiple SCRs participate in an aggregation
 - SCRs must be able to reduce Load from the NYS Transmission System and/or distribution system for a minimum of 4 consecutive hours
- Each SCR is represented by a Responsible Interface Party (RIP), an entity that is classified as a Market Participant



Distributed Energy Resource Participation Model

- The DER participation model will enable multiple resources of varying technology types, including Demand Side Resources, to offer services in the NYISO wholesale markets as part of a single, dispatchable aggregation
 - The DER participation model also allows single Demand Side Resources that meet all of the minimum participation requirements to participate individually, including the requirement that the DSR be dispatchable
- The DER model requires DER Aggregations that offer flexibly must respond to 5-minute basepoints issued by the NYISO in real-time
 - DER Aggregations may also utilize self-scheduling options
- DER Aggregations can qualify to provide the following services:
 - Capacity
 - Energy
 - Reserves
 - Regulation
- DER Aggregations have a minimum offer requirement of 100kW; Aggregations that contain multiple response types (i.e. Injections, Withdrawals, and Demand Reductions) must be able to offer at least 100kW of each response type in order to offer into the NYISO markets
 - For example, 50kW of Injection capability from an ESR cannot be combined with 50kW of Demand Reductions to meet the 100kW minimum offer requirement; the NYISO requires the Aggregation to support 100kW of Injections and/or Demand Reductions in order to offer
 - There are some additional limitations when aggregating load reduction with supply from storage
- The NYISO proposes that individual DER have a minimum size requirement of 10kW
- Each Aggregation is represented by an Aggregator, an entity that is classified as a Market Participant



Guiding Questions

- The NYISO offers these questions to provide participants a sense of the information we are interested in learning about. Depending on the flow of the discussion, these or other questions may be asked during the meeting.
- How does your organization reduce load? Via load curtailment, or by offsetting load using generating assets (including energy storage resources)?
- What is the minimum lead time required for your organization to respond to a demand response event?
- How long is your organization capable of sustaining load reductions?
- How flexible are your Demand Side Resources? Could your organization support multiple deployments within a single day, or are your assets only able to respond to a single, defined event?
- If using a generating asset, are there limitations in the frequency of operation or other limitations?
- Does your organization provide daily offers in the wholesale market? If not, is this something you would consider doing in the future?
- Considering the impact to your organization's primary business/needs, what operational constraints or economic factors are assessed to determine whether to participate in the wholesale market?
 - Would you be willing to share with the NYISO confidentially the necessary market revenues to make wholesale market participation worthwhile?



Our Mission & Vision



Mission

Ensure power system reliability and competitive markets for New York in a clean energy future

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Vision

Working together with stakeholders to build the cleanest, most reliable electric system in the nation

