



Distributed Energy Resources (DER)

Stakeholder Process Update

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- Options within the solutions matrix developed in the MIC Special Session on DER may require feedback or endorsement by the OC
- A standing agenda item will be added to the OC meeting to keep members informed and to obtain feedback
 - An update on recent MIC DER Special Sessions will be provided
 - As needed, more detailed agenda items will be added for topics that require feedback or endorsement by the OC
- Determine if similar updates are required from Planning Committee

1. Education:
 - PJM rules for generation
 - PJM rules for demand response
 - Other RTO rules benchmarking
 - State/federal jurisdictional rules
2. “Consider modifications to **PJM interconnection queue rules** for distributed resources.”
3. “Consider modifications to **market participation rules** for distributed resources to more efficiently incorporate these resources into the energy, ancillary services and capacity markets.”

- **Task 1: Education—COMPLETE AND CLOSED (2016)**
- **Task 2: Interconnection modifications—IN PROGRESS (Planning Committee)**
 - Scope includes education and new rules on:
 - Alternate Queue Process
 - Allocation of upgrade costs <\$5 million
 - Phasing in the queue process.
- **Task 3: Market modifications—IN PROGRESS (MIC Special Sessions)**
 - Goal: Evaluate current options for resources to participate in markets when both reducing load and injecting power past the load meter. Propose enhancements as necessary.
 - Approach: Initially focus on ancillary services, then energy and capacity.

- **Primary Focus:** Some generators and batteries behind a load meter have the ability to inject power:
 - How can they participate in wholesale markets?
- **PJM Demand Response or Generation** framework, but...
 - DR rules prohibit injection of power past load meter; and
 - Generation rules pose challenges for units that are wired with load.
- **Stakeholder Process Goal:**
 - Clear market rules for DER wired with and without load that wish to participate in wholesale markets.
- **Other discussion items of note:**
 - Non-wholesale DER visibility to PJM
 - Aggregation for DER less than 100 kW