Distributed Energy Resource Subcommittee
Proposed changes to clarify participation rules

MRC
December 20, 2018
• Distributed Energy Resource have opportunity to:
  – reduce load as BtMG or as a DR resource and inject power (after reducing all load) with appropriate interconnection agreement
  – Operate as normal “front of the meter” generator with appropriate interconnection agreement
• Existing rules are not clear in the manuals
• “On-Site Generator” definition in DR section inconsistent in tariff sections and could be more clear
Proposed changes

- Clarify existing rules for market participants
  - DER can participate as DR and inject power (with proper interconnection agreement) today
    - Load reductions modelled as DR resource and subject to existing DR rules
    - Injections modelled as a generator and subject to existing generation rules
  - Clarify existing On-Site Generator definition (in definition section), eliminate On-Site Generator definition in Emergency/Pre-Emergency section, use On-Site Generator term consistently (not On Site Generator or On Site Generation).

DERS work continues, this may not be end state
Impacted documents

- OA/OATT - DEFINITIONS, 3.3A.7, 8.2
- Manual 11 - 10.2
- Manual 14D - 4.2
• Generators that will also participate as PJM demand response resources and that have PJM approved interconnection rights to inject power must provide Instantaneous Net ( +/- ) MW and MVAR at the point of interconnection and Instantaneous Net ( +/- ) MW and MVAR for each unit, measured on the low-side of generator step-up transformer at a point where it does not include associated load served by the generator.
DER Use Case Example: Demand Response and Generation at the same site

- Generator = 10 MW
- MFO = 10 MW
  - Max Facility Output
- Peak Load = 5 MW
- Generator CIR = 4 MW
  - Capacity Interconnection Rights

Generator went through New Services Queue to obtain either ISA or WMPA
Scenario 1: Generator used to reduce all load for the wholesale market as DR

Current POI meter reads 0 MW

May be eligible for 5 MW of energy payment for DR resource load reduction
Scenario 2: Generator used to reduce load and inject

**GEN OUTPUT 10MW**

**LOAD 4MW**

Current POI meter reads +6 MW

Paid for 6 MW as Gen resource, not eligible for DR revenue if operated for export (considered part of “normal operations”)
Scenario 3: No load and Generator at full output

Load = 0

Current POI meter reads +10 MW

Paid for 10 MW as Gen resource, No load at the facility