

MIXDG Draft Procedures

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Agenda

1. Significant Changes

- a) Capacity
- b) New line requirements
- c) Protection default settings
- d) Non-export qualifiers

2. Outstanding Updates

Capacity Changes

- Added definition for DER Capacity
 - The aggregate capacity of the site in real power (W) using the nameplate rating in AC.
- Included procedure to calculate export capacity
- Replaced various capacity terms with export capacity where applicable:
 - Screens
 - Material modification definitions

New Line Responsibilities

- New lines constructed and owned by applicant
- Applicant responsible for necessary rights-of-way
- Consumers Energy-owned protective device will protect Applicant's line

Interconnection Facilities

The available system voltage, as well as equipment and operational constraints influence the chosen point of interconnection. Consumers Energy has the ultimate authority to determine the acceptability of a particular PCC.

- Any new line construction to connect the Project to the existing Consumers Energy's electric system will be constructed and owned by the Applicant, including any easements and rights-of-way needed for the Applicant's interconnection lines unless determined otherwise by the utility that the utility should construct and own any of the lines/facilities required for interconnection. Consumers Energy's protective device will provide protection of the Applicant's line. An example is the utility determines that the point of interconnection for a 46 kV connected project is at an existing Consumers Energy Substation "A". Then the Applicant would be responsible for obtaining easements and building/owning the 46 kV line from their project location to the existing CE owned Substation "A" and Consumers Energy would install a 46 kV breaker at Substation "A" for automatic isolation of faults on the Applicant owned 46 kV line. Applicant owned interconnection lines and facilities design must be coordinated with Consumers Energy and approved for use to connect to the Consumers Energy electric system. If applicant owned interconnection facilities are determined to be the cause of outages or reliability issues to existing Consumers Energy customers, the Applicant will be required to correct/mitigate as necessary.

Other Misc. Changes

Limit on reducing export capacity

- Maximum of 80% of DER capacity to limit amount of inadvertent export

Modified Minimum Import and Reverse Power settings

- Increased trip times to allow DER more time to mitigate inadvertent export

Non-export qualifications

- Limited non-export to Low Voltage Distribution

Outstanding Updates

- Updates to Exhibits
 - Flow diagrams
 - One-line diagrams
 - Pre-application form
- Updates to Agreements
 - Level 1-3 Interconnection Agreement
 - Level 4-5 Interconnection Agreement
 - System Impact
 - Facilities Study

Consumers Energy will continue to review and may make additional revisions before the procedures are finalized.