DER Subcommittee: Update

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Intermittent Resources Subcommittee
June 19, 2019
Issue 1: Wholesale DER Interconnection

• Main focus: Reducing the cost and duration associated with small, non-FERC jurisdictional projects that enter the PJM New Services Queue.

• Draft solutions being discussed (solutions matrix):
  – Where applicable, customers can use a state process to obtain their IA; PJM processes the WMPA after checking for transmission impacts (e.g. MISO process)
  – Expedited process for determining impacts (i.e. screens)
  – Applicable to ≤ 5 MW, Energy-Only projects
Duration by Project MFO

Complete Process

Source: https://www.pjm.com/-/media/committees-groups/subcommittees/ders/20181004/20181004-item-06-der-interconnection-data-request.ashx
Requests ≤ 5 MW Entering the Queue the past 3 years

<table>
<thead>
<tr>
<th></th>
<th>Number of Projects</th>
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</thead>
<tbody>
<tr>
<td>AC1</td>
<td>15</td>
</tr>
<tr>
<td>AC2</td>
<td>29</td>
</tr>
<tr>
<td>AD1</td>
<td>3</td>
</tr>
<tr>
<td>AD2</td>
<td>18</td>
</tr>
<tr>
<td>AE1</td>
<td>7</td>
</tr>
<tr>
<td>AE2</td>
<td>41</td>
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- **Number of Energy Only Requests (74)**
- **Number of Capacity Requests (91)**
Issue 2: Utility Microgrids

- A ‘utility microgrid’ uses utility-owned wires to serve load during islanding.
- ‘Utility microgrid generation’ is a PJM wholesale generator that also has the ability to directly serve load as part of a microgrid when islanded.
- Not a PJM-defined term (not in Tariff or Manuals)
- Generator and customers metered as ‘normal’ when islanding.
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Issues Being Discussed (Solutions Matrix)

- Energy settlements when islanded (settled thru PJM or not?)
- Ancillary Services eligibility
- Telemetry (microgrid relay/switching, who provides?)
- CP Resource (RPM offers, outages, performance assessment)
- Terms for islanded operations (e.g. no economic islanding)