Wholesale DER configurations
“Buy-All/Sell-All” DER With Grid Outage Capability

PJM STATUS: ALLOWED
“Buy-All/Sell-All” DER In Grid Outage Mode

PJM STATUS: ALLOWED

Utility Grid

GEN Meter M2

EDC LOAD Meter M1

Resiliency Meter M4

Auto Transfer Switch

DER Submeter M3

Wholesale DER

Main Electrical Panel

Auto Transfer Switch

Sub Electrical Panel

Loads

_Loads_
"Buy-All/Sell-All" DER w/ Grid Outage Capability Incl. Retail DER

PJM STATUS: ALLOWED

Utility Grid

GEN Meter M2

Auto Transfer Switch

DER Submeter M3

Resiliency Meter M4

EDC LOAD Meter M1

Main Electrical Panel

Auto Transfer Switch

Sub Electrical Panel

Retail DER

Loads

SREC Meter M5

Wholesale DER
“Buy-All/Sell-All” DER in Grid Outage Mode Incl. Retail DER

PJM STATUS: ALLOWED

Utility Grid

GEN Meter M2

Resiliency Meter M4

Auto Transfer Switch

DER Submeter M3

Wholesale DER

EDC LOAD Meter M1

Main Electrical Panel

Loads

Auto Transfer Switch

Sub Electrical Panel

Retail DER

Loads

SREC Meter M5
“WIRED W/ LOAD” WHOLESALE DER

PJM STATUS: ALLOWED, SETTLEMENTS ON M1
Q: How to properly settle energy?

“WIRED W/ LOAD” MIXED WHOLESALE AND RETAIL DER

PJM STATUS: NO PROCESS FOR MIXED WHOLESALE AND RETAIL INJECTIONS
<table>
<thead>
<tr>
<th>Description</th>
<th>PJM Purpose</th>
<th>EDC Purpose</th>
<th>Owner</th>
<th>Cost</th>
<th>New or Existing</th>
<th>PJM Compliant</th>
<th>Comms Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1 EDC LOAD Retail Meter</td>
<td>N/A</td>
<td>Retail settlement LOAD (NEM)</td>
<td>EDC</td>
<td>EDC?</td>
<td>Existing</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>M2 GEN Meter</td>
<td>Energy settlements and possible real-time</td>
<td>Possible retail settlement GEN</td>
<td>GEN Owner</td>
<td>New</td>
<td>Y¹</td>
<td>Y²</td>
<td></td>
</tr>
<tr>
<td>M3 Wholesale DER Submeter</td>
<td>Real-time data and possible energy settlements</td>
<td>N/A</td>
<td>GEN Owner</td>
<td>New</td>
<td>Y¹</td>
<td>Y²</td>
<td></td>
</tr>
<tr>
<td>M4 Resiliency Meter</td>
<td>N/A</td>
<td>Retail Resiliency</td>
<td>GEN Owner</td>
<td>New</td>
<td>N/A</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>M5 Retail DER Submeter Solar (SREC)</td>
<td>N/A</td>
<td>N/A</td>
<td>GEN Owner</td>
<td>Either</td>
<td>N/A</td>
<td>Y/N</td>
<td></td>
</tr>
</tbody>
</table>

¹ Compliant with proper internet connection and if meets PJM accuracy requirements
² If real-time data: real time secure data link to PJM SCADA Network