Capture additional DER information

DRS Meeting
July 16, 2018
Proposed changes

• Additional DRHUB location fields for generators and batteries
  – Enable multiple generators entry
  – Enable battery details entry

• Why make this change?
  – In lieu of increased focus on DER, proposed additional information will provide transparency in DER participating in DR;
  – Increase data accuracy for reporting

Proposed DRHUB change will be effective in mid October.
Proposed fields are planned to be required.
Generator new fields

- Allow more than 1 generator (limit is 10)
- Max Output (kW) of each generator will be summed and put into the Load Reduction: Generator field.
- New fields in generator attributes section:
  - Nameplate (kW)
  - EIA 860 Plant Code
  - EIA 860 Generator ID
  - Non-Retail BTMG (checkbox)
  - Note
Battery new fields

• Create a new Battery Section with attributes similar to generator section
• New fields in battery attributes section:
  – Max Output (kW) - this field rolls up to Batteries (kW) in the Load Reduction Method section;
  – Battery Capacity (kW 1C) - a 1C rate means that the discharge current will discharge the entire battery in 1 hour;
  – Vintage - the year the battery was manufactured;
  – Type: Electric Vehicle, PV system, stand alone;
  – Note
Max Output Field for Gen/Battery

- Max Output field will capture battery/generator kW capacity for DR.
- Generator Max Output kW should be <= Nameplate kW;
- Battery total Max Output kW should be <= Battery Capacity kW;
- If there are other load reduction methods used at the location in addition to generator or battery then generator/battery Max Output field should reflect the expected load after the other load reduction methods;
- Example:

<table>
<thead>
<tr>
<th>Location’s load = 8MW</th>
<th>Generator attribute section on DRHUB:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generator Nameplate = 10MW</td>
<td>Max Output kW = 7MW (8-1)</td>
</tr>
<tr>
<td>HVAC reduction capability = 1MW</td>
<td>Nameplate kW = 10MW</td>
</tr>
</tbody>
</table>
Max Load Field for Location

- Add new field "Max Load (kW)" under the Registration Input section;
- Max Load will reflect location’s highest annual monthly billed demand;
- Max Load kW >= Max Load Reduction Capability (sum of reduction capability for all reduction methods);

If CSP enters Max Load < Max Load Reduction – they will get a pop-up message that Load can’t exceed Max Load Reduction.