SSWG Modeling Assumptions – PLWG Input Requested

A few things that SSWG is seeking input on:

* LFL forecasting in the SSWG cases
  + Currently the 2030SUM1 case has reduced LFL load forecasts due to the necessary Transmission improvements to be able to serve more than the current FAC-002 limits not being modeled.
  + We had asked TSPs to reduce the forecasts to be able to provide a functional SSWG case to be posted.  I.e. if a load is 1 GW but only 200 MW can reliably be served from the system we have to mitigate all of the issues associated with multiple being added in local areas.
  + Adding 1 GW of load may be acceptable for the real power component but at 0.95 PF there is roughly a need of 333 MVAR of reactive support that is necessary from the grid.
    - Reactive support is not something in excess and we are planning on monitoring this more closely moving forward.
* Battery Dispatch in SSWG Cases
  + Currently we have 8.8 GW of batteries modeled in the 24SUM1 23SSWG U1 case, these are all offline.
  + Currently they are modeled with \***no**\* reactive support capabilities.
  + 8.8 GW of generation doesn’t provide the full benefit to the grid without being able to provide reactive support.
* SODG & DGR Capabilities in SSWG Cases
  + Currently in the 24SUM1 case there is 1.044 GW of SODG
  + Currently in the 24SUM1 case there is 1.410 GW of DGR
  + No reactive capability is modeled for either generation type.
* Extraordinary Dispatch in SSWG Cases
  + The existing ED is below in the SSWG PM.
  + We feel that the current step 9 of SODG diesel and natural gas dispatch prior to scaling wind above the CDR levels is more realistic.
  + We would like to add an LFL reduction step
  + We would like to add a battery dispatch step
    - We need some direction as to how to convey the capabilities of the installation
      * One recommendation on the call was to use a four-hour proxy, I.e. a 1 hour battery would be dispatched to 0.25 \* Pmax in the case.
    - Do we need a way to reflect the charging of these batteries in the case?
      * Currently that is not being considered.

