

Summary
Scenario Task Force Call #4
August 8, 2011, 12-1:30 PM EDT

Attending: Ryan Kind, Wil Burns, Maryam Sharif, Stu Nachmias, Doug Nazarian, Mark Volpe, Stan Hadley, Jeff Bentz, Dave Whiteley, Flora Flygt, Chris Hagman, Greg Watkins, King Look

Keystone: Margaret Pinard, Caitlin Connelly

- 1. Review discussions/decisions from SSC meeting** – Margaret Pinard summarized the scenario selection-related discussion and decision items from the recent SSC meeting, including:
 - The SSC generally agreed on a Bookends framework involving 1) either a BAU or high EE/DR/DG/SG scenario; 2) a National clean/green/low-carbon scenario; and 3) a Regional clean/green/low-carbon scenario
 - The SSC also indicated that, for the clustering approach, high-priority clustering variables included those related to transmission, generation mix, emissions, energy flows, and total costs.

- 2. Update on clustering analysis** – Stan Hadley provided a brief update on the input he received during last week's informal call on the technical format for the clustering analysis. He reviewed the most recent changes made to the Comparison Chart, sent before this call.

- 3. Discuss key clustering variables** – Task Force members discussed the clustering variables highlighted by the SSC and gave input on which specific metrics best represented each of the key variables. Key points from the discussion included:
 - Several participants requested that the data from the clustering analysis be linked to the bookends framework, either by using the variables that define the bookends (namely, policy drivers) as clustering variables, and/or by sorting the clustering data into the roughly-defined bookend scenario groups, so that the runs within these groups could be compared.
 - Transmission -- Numerous participants agreed that transmission is the key clustering variable; however, defining the metric that shows the salient differences and similarities related to likely transmission needs proved to be a challenge. At this point, the best indicator of likely transmission needs seems to be total energy transfers between NEEM regions, but that does not indicate the need for shorter-range transmission within NEEM regions. Dave Whiteley, Stan Hadley and Wil Burns discussed developing a new metric that would indicate these types of transmission needs.
 - Costs -- Some stakeholders expressed an interest in seeing total costs, including generation, transmission, and other costs, aggregated across the entire interconnect, for each run. This metric will be added to the clustering chart and data will be plugged in as they become available. Most of the non-NEEM cost data is still being developed, and is likely to be released throughout the next several weeks.
 - Generation – Participants indicated that coal generation and renewables generation as percentages of the total generation were the most useful generation-related metrics for clustering purposes.

- Emissions – Participants expressed an interest in seeing emissions as a percentage change from the base, in addition to annual emissions totals.
 - Load growth – Task Force members also noted that load growth is an important comparison and clustering variable.
4. **September in-person meeting** – Participants were informed that the September meeting would take place Monday, September 12, in the DC area, from approximately 10 a.m. until 5 or 6 p.m. No task members expressed strong concerns or objections, so Keystone will move forward with planning the meeting on this basis.
 5. **Next steps** -- Stan Hadley will provide a revised version of the clustering spreadsheet and Keystone will ensure that clustering charts showing these key variables will be created and distributed to Task Force members for their review and for discussion during the next call. The next Scenario TF call will take place **Monday, August 22 from 12-2 p.m.**