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Long-Term Load and DER Forecasting

Summary of March 27, 2017 Stakeholder Engagement Group Meeting

STAKEHOLDER INPUTS AND ENGAGEMENT GROUP DECISION

Stakeholder Input	Discussion Points	Status

It would be useful to have mechanisms to measure forecast performance in order to provide more targeted feedback on current utility forecasts. Additionally, it would be valuable to compare utility and NYISO forecasts.	• Given differences across the utilities in factors such as system design, data availability, and load density, the group discussed that it may not be appropriate to measure forecast performance across the utilities based on raw metrics
	• Given the potential for added complexity resulting from how forecasting methodologies are evolving, there may be ways in which these metrics evolve
	• The group identified two potential alternatives for comparing forecast accuracy and will continue to explore these options during future engagement sessions:
	  ○ A potential alternative to comparing forecasts using raw metrics is to instead focus on identifying best practices and opportunities for knowledge exchange
	  ○ Another option for analyzing the accuracy of forecasts is to break out gross load forecasts into individual subcomponents and determine how each subcomponent forecast compares to actual results
		OPEN – Further discussion needed

It would be helpful to further understand how to leverage forecasts to direct investment in the market.	• The group acknowledged that both the geospatial and temporal complexity of these forecasts will increase as DER penetration grows	**OPEN** – Further discussion needed

STAKEHOLDER INPUTS AND ENGAGEMENT GROUP DECISION

Stakeholder Input	Discussion Points	Status
There is value in understanding potential use cases for utility forecasts.	• The group discussed utility use cases for forecasts which may include operational planning or identification of system needs, NWA opportunities and beneficial locations • Stakeholders continue to explore potential use cases for 8760 forecasts ○ The JU confirmed plans to move forward with development of top-down substation-level 8760 forecasts • In addition to forecasting minimum daytime loading for traditional planning purposes, the group discussed that this may also inform hosting capacity analysis	**OPEN** – Stakeholders will develop presentations on their use cases for utility forecasts, including 8760 forecasts
There is value in understanding further how utility forecasts could incorporate new inputs.	Potential new inputs include: • Public policy • Building codes and standards • Green Bank programs • The Efficiency Transition Implementation Plan (ETIP) • Impacts of new resources (e.g., electrification of heating) • Resource interactions • Market participant inputs • High-DER scenarios	**OPEN** – Stakeholders will develop presentations for future engagement sessions to further inform opportunities for incorporating new inputs
It would be useful to have probabilistic inputs and outputs for forecasts	• With respect to probabilistic outputs, stakeholders suggested this could help utilities more effectively assess system needs	**OPEN** – The group will continue exploring opportunities for probabilistic planning through both stakeholder and utility presentations

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