



SUMMARY OF JANUARY 17, 2023, TECHNICAL SESSION #10

On January 17, 2023, PNM held the tenth in the series of technical sessions for stakeholders devoted to discussing the advantages and disadvantages regarding the application of different technical methodologies within the modeling framework for the IRP (Integrated Resource Plan).

AEG (Applied Energy Group) presented the results of its Energy Efficiency (EE) Market Potential Study that identified EE opportunities in PNM's service territory through 2042. The presentation included a detailed review of AEG's supply curve bundling analysis. Astrape Consultants presented the results of their ELCC study. The meeting also included highlights from PNM's energy efficiency programs and a PNM presentation of its promised post-summer 2022 review of new data and modeled market assistance for resource adequacy.

MEETING ATTENDEES

Twenty-five stakeholders, not including PNM and contractors, attended the virtual meeting, including members of the public and representatives from InterWest Energy Alliance, NM RETA, and Sandia National Laboratories, among others.

Meeting slides can be found [here](#).

Stakeholders raised the following questions.





Stakeholder	Question/Comment	Categories
NM RETA:	Would electric vehicles [EVs] be a part of “miscellaneous” [Slide 14]?	Load & Energy Efficiency Forecasting
InterWest Energy Alliance:	Does this [Slide 14] include the IRA [Inflation Reduction Act] incentives, such as for heat pumps?	Load & Energy Efficiency Forecasting
NM RETA:	On Slides 21 and 23, are the units in gigawatt hours as on Slide 22? What are the units there?	Load & Energy Efficiency Forecasting
Sandia National Laboratories:	I'm curious to know what kind of measurement, verification, and evaluation [MV&E] PNM has done on past energy efficiency programs, and if it has any plans for MV&E going forward?	Load & Energy Efficiency Forecasting
InterWest Energy Alliance:	Please describe why ELCC is used only for wind, solar, and storage. PJM’s results from the recent winter storm Elliot in Texas and 2020’s Texas winter storm Uri showed significant severe thermal outages during peak need times.	Reliability-Resilience-Resource Adequacy
NM RETA:	Is 650 megawatts of storage the recommended minimum for the PNM system to have operational by a certain year?	Reliability-Resilience-Resource Adequacy
Member of the Public:	How would PNM view independent solar, whether on individual, for example, a roof or DG context adding storage? What might those installations look like?	Reliability-Resilience-Resource Adequacy





InterWest Energy Alliance:	Is there a slide to show wind penetration to higher storage penetration?	Reliability-Resilience-Resource Adequacy
Member of the Public:	How much do the battery outage rates impact the study?	Reliability-Resilience-Resource Adequacy
Member of the Public:	Is there any point at which you lower [battery availability] well enough, wind becomes better for the system than solar?	Reliability-Resilience-Resource Adequacy
Member of the Public:	By adding significant amounts of solar, what's your level of curtailments?	Reliability-Resilience-Resource Adequacy
Member of the Public:	I thought that adding more solar to the system was detrimental to it, or at least more detrimental than adding wind and storage. But from this presentation, I'm hearing the exact opposite. And so, I'm trying to reconcile what has changed from my [previous] understanding of it.	Reliability-Resilience-Resource Adequacy
Member of the Public:	Did you assume that Four Corners was in the mix in 2025?	Reliability-Resilience-Resource Adequacy
NM RETA:	Regarding the difficulties in hours 18 and 20, is the forum for where PNM goes all in WECC or can SPP offer any assistance?	Reliability-Resilience-Resource Adequacy

All IRP questions and answers can be found [here](#).

The latest future meeting schedule can be found [here](#).

