



PUBLIC ADVISORY GROUP DAY

“Methods for Accounting for Correlated Outages and Derates of Conventional Generators”

August 17, 2022

PNM hosted the first Public Advisory Group Day of the 2023 IRP planning cycle on August 17, 2022. Michael Goggin of Grid Strategies LLC gave a presentation on methods for accounting for correlated outages of conventional generators.

Key points included:

- Correlated conventional generator outages due to equipment failures and fuel supply interruptions have played a major role in recent reliability events.
- Effective Load Carrying Capability (ELCC) methods capture correlations in output patterns for renewable and storage resources. Conventional generators also exhibit correlated outages and derates, but those are not typically accounted for.
- Ignoring conventional generator correlated outages can bias resource selection, and mask reliability risk.
- Several grid operators and others have developed methods for evaluating risks to resource adequacy and resilience from correlated conventional generator outages and derates. Some of these methods apply ELCC to conventional generators using historical patterns for generator outages, while other methods focus more on testing a large number of potential generation mixes under a range of plausible conditions.

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