SODRSTF Update

Load Analysis Subcommittee

June 20, 2018
• SODRSTF began meeting in December 2017
  – Problem Statement
    • “It is therefore recommended that PJM staff and stakeholders
discuss whether or not there are opportunities to value summer-only
Demand Response resources through the load forecasting process
or other mechanisms that would serve as an alternative to supply-
side participation in the capacity market.”
  – Issue Charge
• PJM currently has a proposed package that includes potential changes to the load forecast process.
  – PJM will initially generate a new lower load forecast based on a modified load history that assumes perfect curtailment compliance back to 1998.
  – Peak shaving program will be assumed to be enacted every time a pre-determined Temperature-Humidity Index (THI) threshold is reached or exceeded.
• Each peak shaving event will be 6 hours from HE14 to HE19 (PJM Package)
• Each peak shaving event will be triggered on non-holiday weekdays which have a max THI exceeding the threshold
• Peak shaving events can occur any day between May and October
Current Model and Peak Shaving

- Forecast model uses unrestricted load
  - Manual 19: “Hourly metered load data are supplemented with estimated load drops…”
  - Shaving would reduce historical unrestricted load, which would lower the forecast through changing model coefficients
• Modify forecast model to include shaving (or load management) as an independent variable
  – Not relying on shaving to get reflected in existing regression model parameters
  – Forecast values would be more consistent with expected operation
  – Can more easily reflect non-performance