LAS Action Items
Action Item #1: Mean Percent Error

On slide 5 of PJM’s presentation regarding the implementation of EER instead of SEER, PJM displayed the accuracy of a forecast model using EER versus a forecast model using SEER for Residential Central A/C units and Residential Heat Pumps.

- The metric used to show accuracy was Mean Absolute Percent Error on the top 10 days per year. Stakeholders requested to see the corresponding graph using Mean Percent Error.
- The following graph is the Mean Percent Error of the top 10 days per year for the three-year out forecast (i.e. forecast vintage 2009 for 2012, forecast vintage 2010 for 2013, etc).
**Action Item #1: Mean Percent Error**

**PJM RTO Mean Percent Error on Summer 10 CPs**
Three-Year Out Forecast

![Graph showing Mean Percent Error over years](image-url)
In response to slide 5 of PJM’s presentation regarding the implementation of EER instead of SEER, stakeholders requested to see the results of backcasting both methods compared with weather normalized history.

- The current model under each of the forecasting assumptions (EER or SEER) solved in historical years.
- As with the Preliminary 2016 forecast, each model is estimated through August 2015, uses the Moody’s Analytics October 2015 vintage and the 2015 Itron end-use data.
Action Item #2: Backcasting

PJM RTO Backcasting Versus Weather-Normalized Values

- Weather Normalized Values
- Backcasted Forecast Results Using EER
- Backcasted Forecasting Results Using SEER

Chart showing historical data from 2000 to 2015.
Action Item #3: Cooling Equipment

- PJM had posted a spreadsheet containing the Cooling Equipment Index, though only did so with Residential Central A/C and Residential Heat Pump efficiency defined by EER. A stakeholder requested to see the corresponding index with SEER used instead.
  - All zones are available in the posted EER/SEER Comparison spreadsheet
  - Zonal-weighted RTO values are presented on the following slide and in the spreadsheet as well
Action Item #3: Cooling Equipment

PJM RTO Zonal-Weighted Cooling Equipment Index (1998 = 1.0)
Action Item #4: Impact of Switch to EER in MWs

PJM RTO - Forecast Impact of Using EER vs SEER (MW)