



Update on Distributed Solar Generation

Load Analysis Subcommittee
September 2, 2015

- Forecast approaches
 - Model Directly
 - Best method, however more difficult and much more data required
 - Reconstitute the load
 - Second best method, however, PJM does not have underlying hourly data of the BTM solar generation like we do for demand response and load losses
 - Ex Post Bias Adjustment
 - Reasonable approach, can be transparent to participants

- EIA SEDS and EIA 861
 - Public data but out of date
- GATS data
 - Public data and much more up to date
 - Location specific
 - Validated against state information
- State Mandates
 - Compiled by the Renewable Services group via DSIRE
 - Complications with using this data include:
 - May not be location specific as some mandates don't require the resource to be physically located in the state
 - Some states don't have any solar mandates

- Other areas of concern not captured by state mandates include:
 - Impacts of the Investment Tax Credit
 - Net Metering Policies
 - Cost of Solar Installations
 - Improvement in solar efficiencies over time
- Work was started in other areas of PJM to develop a BTM solar forecast as well, however, the work is preliminary and inputs are still being determined.

- Doing research to find additional sources, we came across a North America Renewable Power Market Forecast by IHS Energy
 - IHS has a history of publishing renewable forecasts and reports
 - Their forecasts consider multiple scenarios with variations in distributed solar generation market indicators
- PJM is in talks with IHS on how best to leverage their forecasts to assist us with determining future distributed solar additions