



Load Shape Discussion

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Discussion Points

The following objectives may help guide consideration of an updated approach to developing load shapes:

- Most recent load patterns and load levels accounted for;
- Ability to account for the historical range of weather patterns over a long period of time;
- Account for impacts of DER as supply-side resources. This would include behind-the-meter solar, and other Distributed Energy Resources.

Summary of Current Method

- **Three load shapes are chosen from historic years and placed in one of the seven load forecast uncertainty bins**
 - 2007, a typical year, chosen for the lowest 5 bins;
 - 2006, an extreme weather & load year, chosen for the highest bin;
 - 2002, a year with a number of hours close to the peak hour, chosen for the 2nd highest bin.
- **Periodically review the load shapes that are used in the next year's IRM study.**

Selection of Load Shapes for IRM Study

- Could explore continuing to use a selection methodology to identify representative historical load shapes.
- Load shapes for all years ranked and compared by load and weather characteristics.
- **Selection of one or more load shapes for IRM study:**
 - a) Current approach – Select a ‘typical’ year’s shape for bins 3 – 7, two other more extreme shapes for bins 1 & 2;
 - b) One load shape for all 7 bins.

Model-Based Approach to Building a Load Shape

- Could explore using the NYISO's day-ahead modeling system to generate a series of annual load shapes representing:
 - a) The load patterns of the most recent historical year;
 - b) One load shape for each of 25 or more historical weather years of record is generated from the model.
 - c) Adjusted actual load to account for demand response impacts, behind-the-meter solar, or other DER as desired.
- Load shapes (either one or several) would be updated every year.

Next Steps

- **Solicit feedback from ICS**
- **Develop a scope for the remainder of 2018**
 - To continue exploring the feasibility of the options
 - Preliminary model building
- **Develop a preliminary scope for 2019**

Questions?

We are here to help. Let us know if we can add anything.

