

Load Forecast for 2016 IRM Study

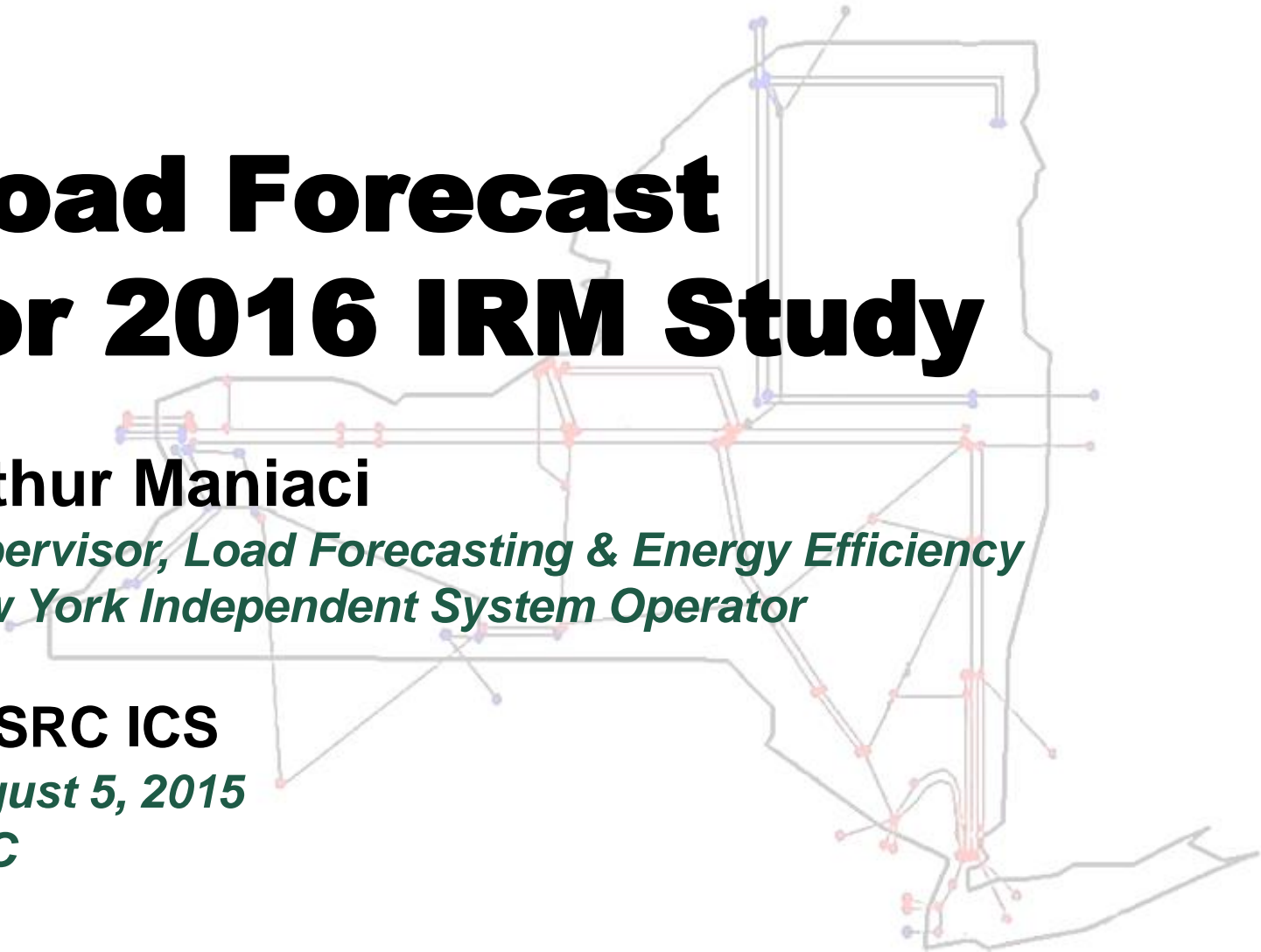
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NYSRC ICS

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Methodology for 2014 IRM

- ◆ Three reference years were used:
 - *2006 – Load Forecast Uncertainty (LFU) Bin 1 (highest per-unit multiplier)*
 - *2002 – LFU Bin 2 (second highest per-unit multiplier)*
 - *2007 – LFU Bins 3 – 7 (consecutively lower per-unit multipliers)*
- ◆ Original reference shapes input to MARS
 - *Internal MARS routines were used to make adjustments*
- ◆ Load Adjustment Steps (for each reference year):
 1. *Set zonal Non-Coincident Peaks (NCPs)*
 2. *Adjust zonal NCPs for zones A – I to match NYCA Coincident Peak*
 3. *NYCA, Zone J Locality, and Zone K Locality criteria met*

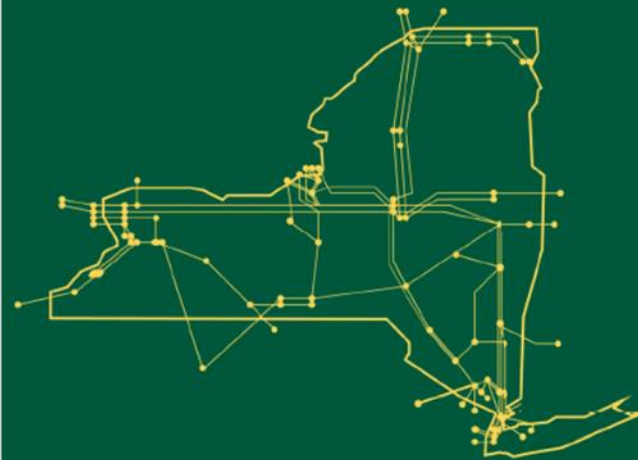
Methodology for 2015 IRM

- ◆ Same three reference years as 2014 IRM
- ◆ Implementation of G-to-J Locality introduced an additional load modeling constraint.
 - *MARS routines cannot satisfy multiple load constraints.*
- ◆ New Method: All adjustments now made external to MARS; revised shapes are input to MARS.
- ◆ Load Adjustment Steps (per reference year):
 1. *Adjust zonal hourly loads to match 2015 zonal peaks (NCPs)*
 2. *Adjust zonal hourly loads on day of NYCA peak to match zonal load at time of NYCA peak*
 3. *Adjust zonal hourly loads in zones G-J on day of G-to-J Locality peak to match zonal load for zones G-J at time of G-to-J Locality peak*

Methodology for 2016 IRM

- ◆ Same three reference years as 2015 IRM
- ◆ No change to load shape adjustment methodology
- ◆ NYISO SRP staff automated the load shape adjustment process used in 2015 IRM using MATLAB®

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