



PJM Load Impacts & Analysis: COVID-19

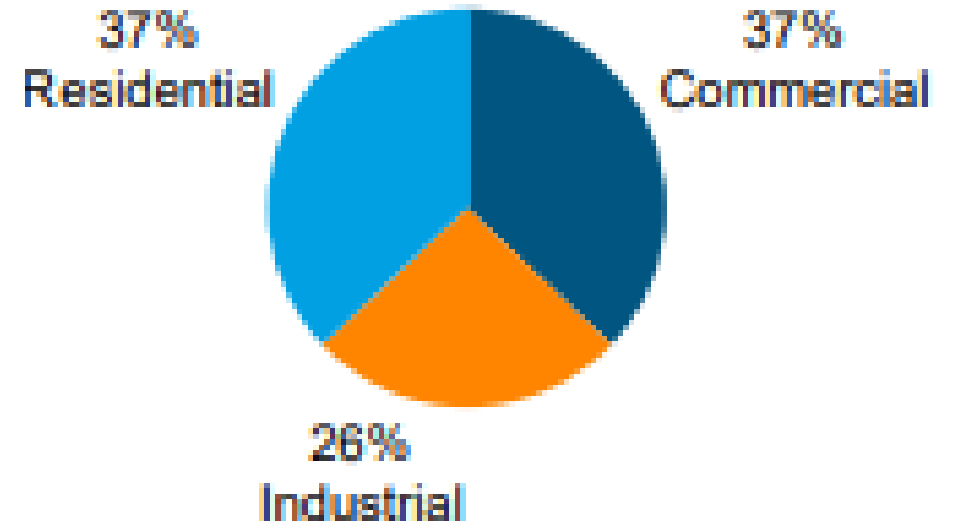
March 26, 2020

Markets & Reliability Committee

Tom Falin and Chris Pulong

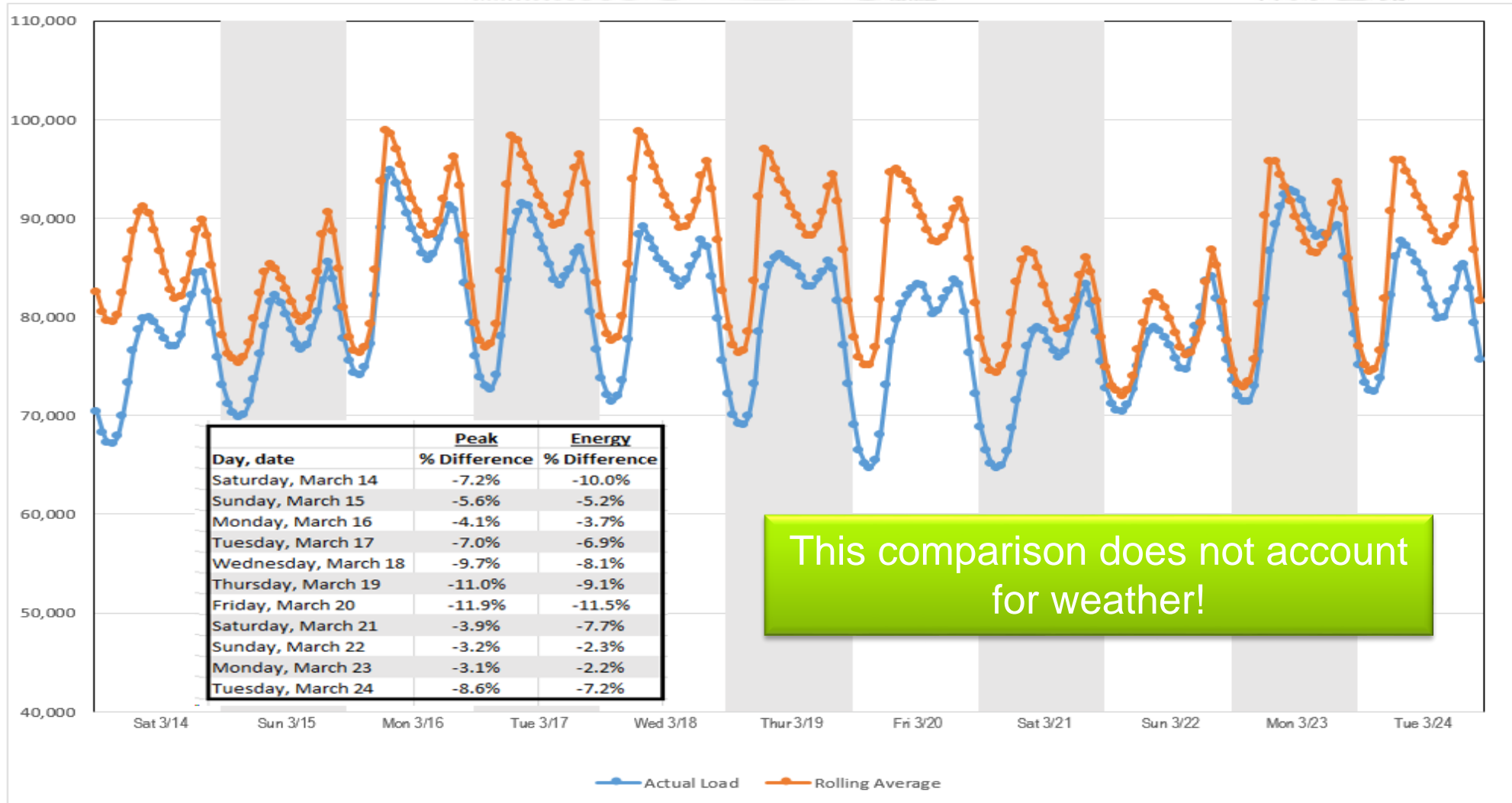
- Review the analysis performed to date to determine the potential impacts the response to COVID-19 has had on PJM's daily load.
- Provide information regarding the next steps in the continuing near term load impact analysis.
- Discuss next steps in long term forecast impact analysis

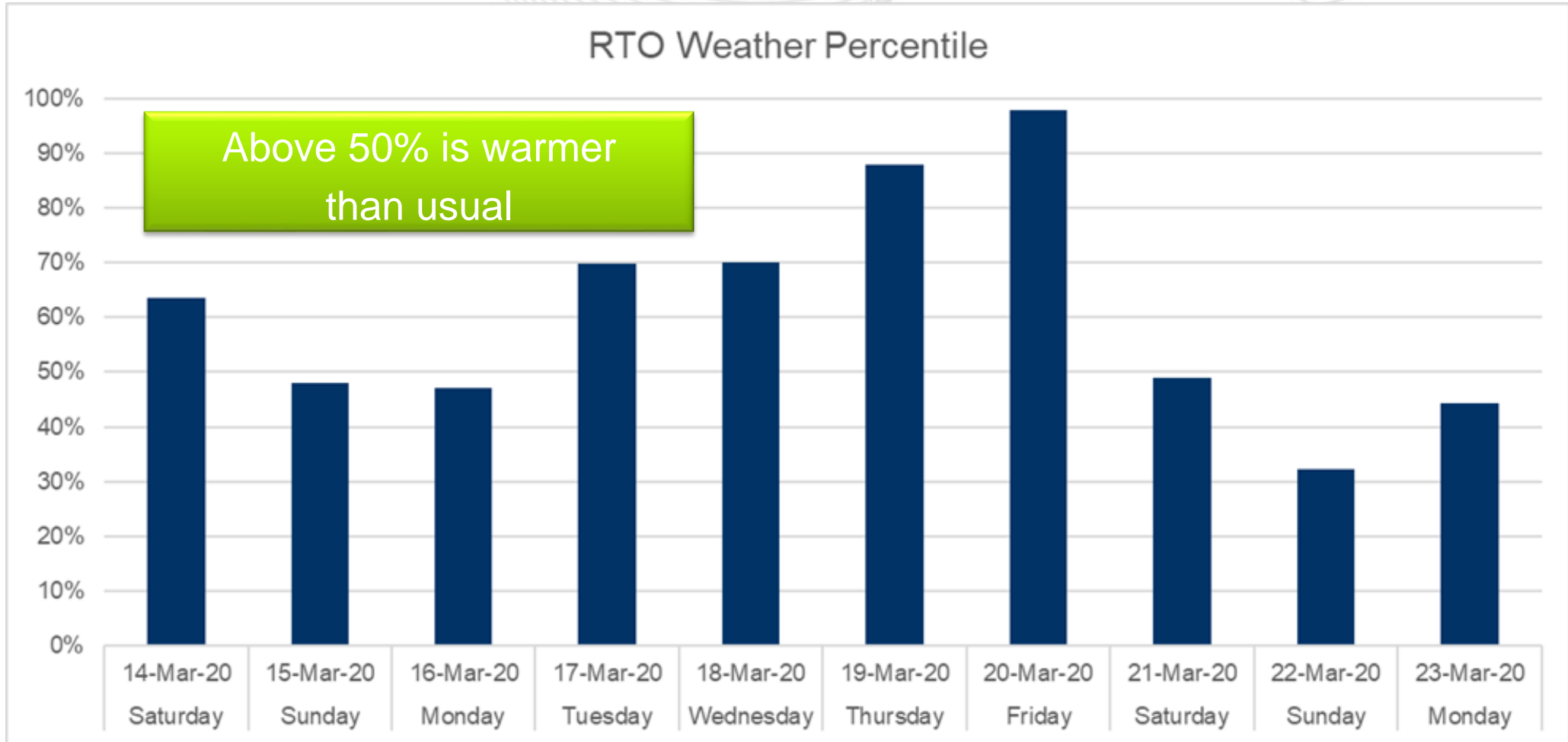
- All three sectors are impacted, but to what extent?
 - Reduction of commercial load will likely cause a natural increase in residential load as workers are
 - Lighting, laptops, heating/AC, etc.
 - Industrial will not shift to residential, but also may not be as impacted (state dependent)

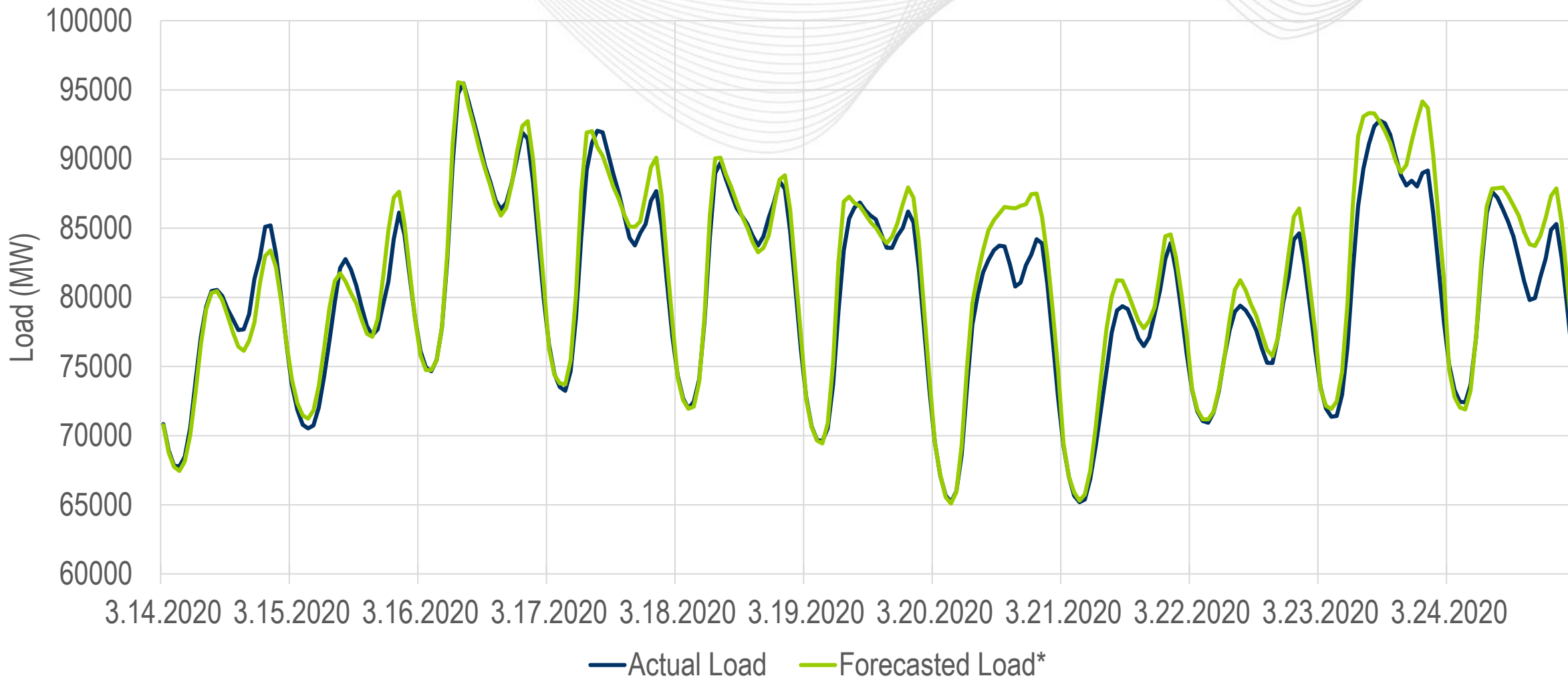


Source: PJM LAS 2020 Load Report: <https://www.pjm.com/-/media/library/reports-notice/load-forecast/2020-load-report.ashx?la=en>

5 Year Historical March Load Comparison







*This forecast is based on an algorithm that uses actual temperature and load and is not actively accounting for the influence of COVID-19

- Finalize the load analysis methodology and update the results on a weekly basis.
 - Results (underlying data and chart) will be posted to the Operating Committee main webpage each Monday.
- Report out at the SOS and OC monthly meetings
- Begin planning for the eventual 'return to normal'

- Moody's Analytics has recently developed economic forecasts for three scenarios:
 - Pandemic
 - Severe Pandemic
 - Critical Pandemic
- The scenarios differ by number of infections, mortality rates, hospitalization rates, duration of infection increases, etc.
- When PJM receives these updated forecasts down to the metro level, we will produce an updated long-term load forecast(s)
- Results will be shared with the Planning Committee.

- For 2020, PJM will need to continue updating load models to incorporate load behavior for duration of economic shutdown and for a transition period back to “return to normal”.
- Will examine several scenarios
- Results will be shared with the Planning Committee.