A Review of PJM RTO Summer 2018 Loads

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Summer 2018 Peak Forecast Distribution

NCP vs. CP Forecast Distribution
Summer 2018

MW
0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%
115,000 125,000 135,000 145,000 155,000 165,000 175,000

Diversity 5.3% 146,878
Diversity 3.9% 158,012
Diversity 1.5% 165,987
CP - Summer 2018
Sum of NCPs - Summer 2018

PJM©2018
Comparison of PJM RTO Unrestricted Summer Peaks to Forecasted Peak Levels - 2018

- 10th Percentile: 139,489 MW
- 27-Aug: 145,508 MW
- 5-Sep: 147,621 MW
- 18-Jun: 148,169 MW
- 4-Sep: 148,285 MW
- 28-Aug: 150,454 MW
- 50th Percentile: 152,108 MW
- 90th Percentile: 163,596 MW

Legend:
- Addback
- Meter
2018 5CPs and the CP Forecast Distribution
Comparison of 2017 and 2018 Maximum Heat Index to 1993-2018 Median

- **2017** in Blue
- **2018** in Red
- **Median 1993-2018** in Green

Bars represent the maximum heat index for each location, comparing 2017 and 2018 data to the median of 1993-2018.
Peak Day Comparison

PJM RTO* Unrestricted Summer Peaks

- All-Time: 166,876 MW (Aug 2, 2006)
- 2017: 145,331 MW (July 19)
- Forecast 2018: 152,108 MW
- 2018: 150,454 MW (August 28)

* All peak values reflect current RTO membership.

9.9 MW of Load Management
5,123 MW (3.5%) above 2017 peak
1,054 MW (1.1%) below forecast
• Peak load was above previous year but below forecast.

• No PJM-declared Load Management events.

• Weather: RTO Peak day heat index was milder than 50/50; 3 zones (AE, DPL, PECO) had max Heat Index higher than median, others roughly normal.

• Peak diversity for Summer 2018 was 3.3%.

• Zone Peaks:
  – June: 3, on 6/18
  – July: 6, on two different days
  – August: 3, on 8/29
  – September: 9, on three different days
  – Only 8 zones peaked on a 5CP day

• The RTO peaked on August 28; no zones peaked on that day.