



Real-time Market Results

September 21, 2017



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Forecasted RTO Peak	127,038 MW @ 1700
Actual RTO Peak	128,446 MW @ 1700
Mid Atlantic	42,686 MW @ 1700
Dominion	15,247 MW @ 1700
Generation Outages (Total)	36,350 MW
Generation Outages (Unplanned)	7,712 MW
RTO Net Scheduled Interchange	2,826 MW (Exporting)
Economic Demand Response	0 MW
CTs Committed	19,811 MW



MAD = Mid-Atlantic and Dominion
 SR = Synchronized Reserves
 PR = Primary Reserves

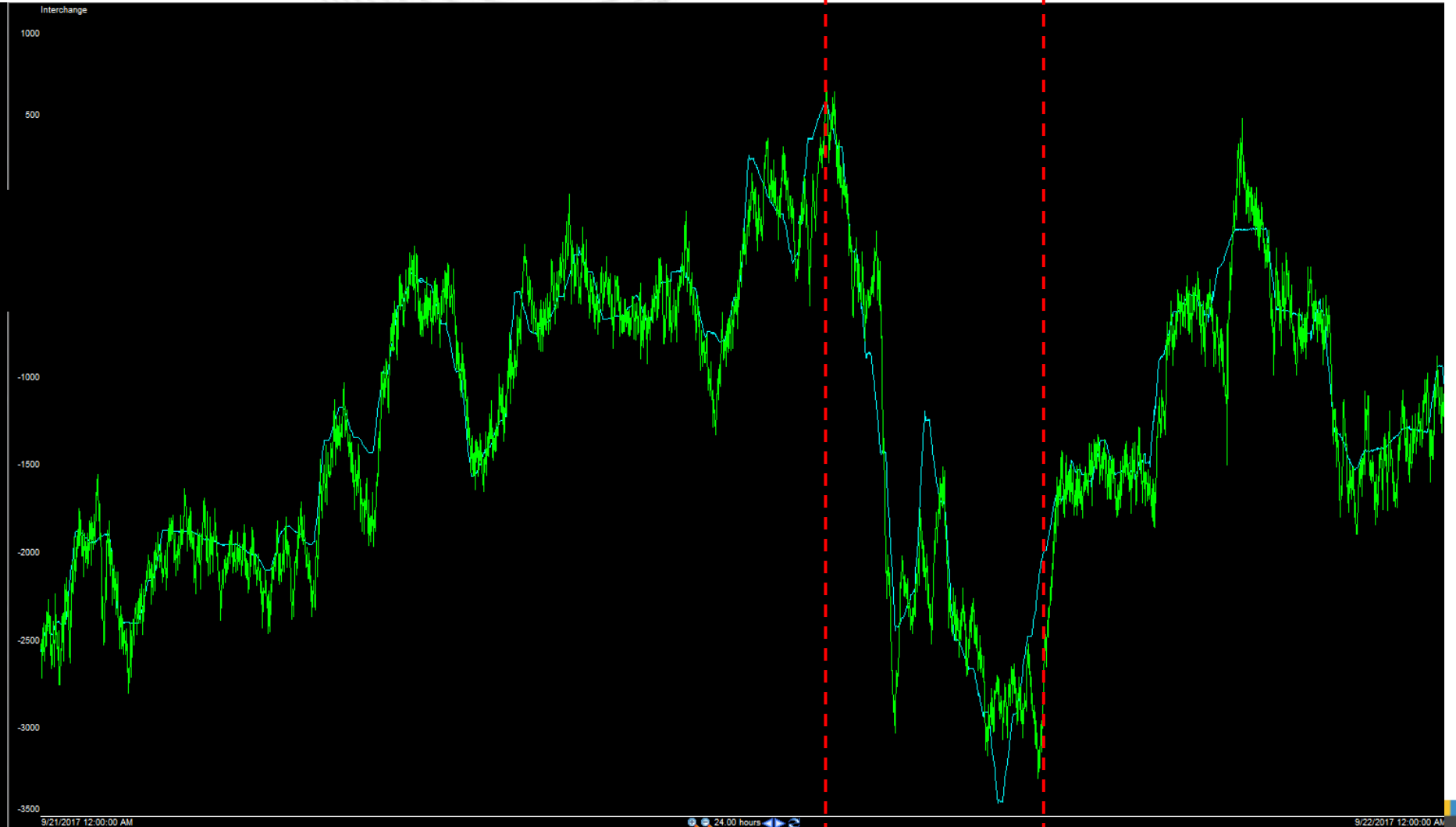
- Peak Load Forecast = 127,038 MW
- Reserve requirements slightly increased due to a transmission outage
- Temperature forecasts
 - Mid-Atlantic and Dom zones in mid-80s
 - Midwest zones approximately 87-degrees
 - ComEd at 90-degrees for 1hour.

- **Actual Peak Load = 128,446 MW**
 - Approximately 1,500 MW over the Reserve Adequacy Commitment forecast (~14:00)
 - Temperatures 3-degrees higher than forecast in the west, with many zones pushing 90-degrees.
- **MISO declares Max Emergency 12:30-20:00**
 - Interchange shifts from 500 MW in to 3500 MW out between 13:20 and 16:20
 - Discussed selling emergency power to MISO but did not
 - This exacerbates east to west transfers and congestion in PJM

+500
13:20

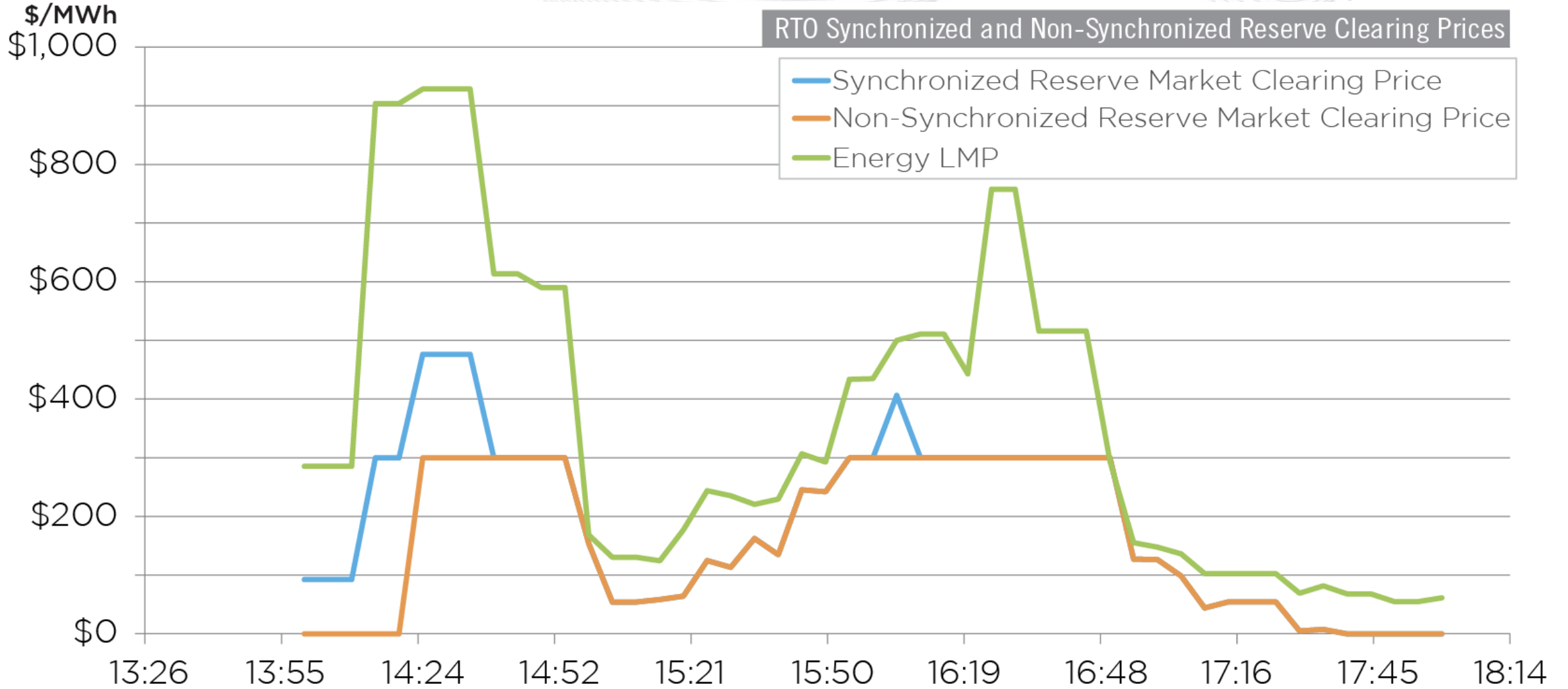
-3,500
16:20

RTO Actual Interchange
RTO Scheduled Interchange





RTO Synchronized and Non-Synchronized Reserve Clearing Prices



- Significant congestion from east-to-west across the PJM system
 - Conastone – Peach Bottom 500 kV Actual
 - TMI XF flo. Conastone – Peach Bottom 500 kV
 - Butler-Shanor Manor 138kV flo. Cabot-Cranberry 500KV
- Eastern generation limited by constraints.
- RTO Synch Event initiated 14:15-14:31 for low ACE

- RTO Synchronized Reserve Shortage Pricing
 - 14:20-14:25
 - 16MW deficit
- 1st RTO Primary Reserve Shortage Pricing
 - 14:25 to 15:00 (9 intervals)
 - Max deficit 131MWs
- 2nd RTO Primary Reserve Shortage Pricing
 - 15:55 to 16:55 (12 intervals)
 - Max deficit 161MWs

