NPRR1108 ERCOT Shall Approve or Deny All Resource Outage Requests

Shun Hsien (Fred) Huang

ERCOT Operations

Wholesale Market Subcommittee (WMS)
April 06, 2022

Calculation of Maximum Daily Resource Planned Outage Capacity (MDRPOC) – More than 7 days prior to the Operating Day

- MDRPOC for non-IRR, non-PUN is determined by considering
  - Operational Resource Capacity (Thermal, Hydro, Switchable, Mothballed Units, non-synchronous ties and private use networks): consistent with SARA methodology
  - Intermittent Renewable Resource Contribution: 10th percentile for seasonal load peak hours of the same season of the previous three years
  - High unplanned outages (thermal): consistent with SARA methodology
  - Long-term load forecast: based on 50th percentile of historical load profiles
  - Target reserve: consistent with Outage Adjustment Evaluation (OAE) assumption
  - Estimated price responsive load contribution: consistent with OAE assumption
  - New planned thermal resource capacity with signed Interconnection Agreement and financial commitment posted (Planning Guide 6.9(1))
  - For the summer and winter seasons, the MDPROC based on the inputs above should not exceed 105% of the historical maximum Resource Planned Outage capacity for non-IRR/non-PUN of the previously three years.

Calculation of Maximum Daily Resource Planned Outage Capacity (MDRPOC) – More than 7 days prior to the Operating Day

- MDRPOC for IRR is set as
  - 105% of the historical maximum Resource Planned Outage capacity for IRRs of the previously three years
    - The maximum IRR historical Resource Planning Outage capacity from 2019-2021 is 2,604 MW

Calculation of Maximum Daily Resource Planned Outage Capacity (MDRPOC) – within 7 days prior to the Operating Day

- MDRPOC is consistent with the input used for the planning assessment for an Outage Adjustment Evaluation described in the Protocol Section 3.1.6.9 (7)

Comparison of the MDRPOC (non-IRR, non-PUN) and Historical Resource Planned Outages (2019-2021)
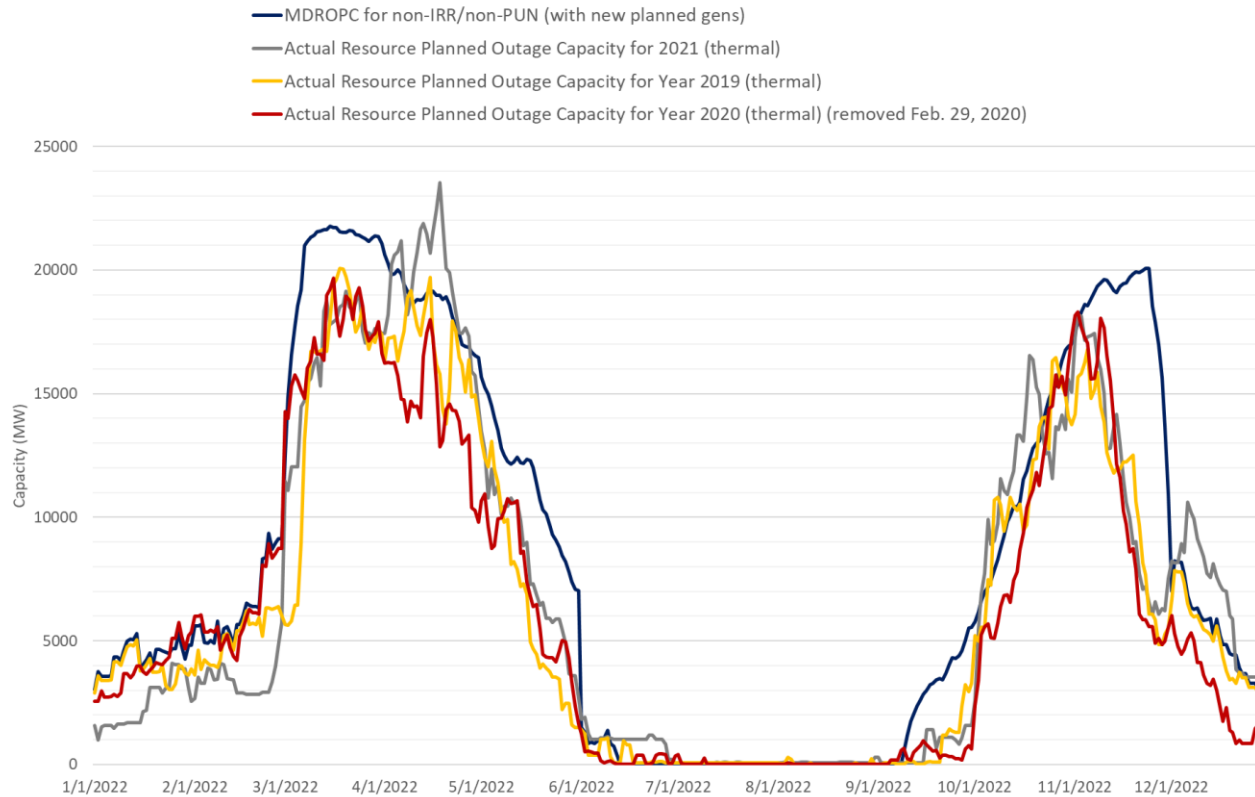
- The MDRPOC$_{(non-IRR, non-PUN)}$ is expected to provide sufficient time window to accommodate need for Resource Planned Outages

  - more than 15% margin above the historical Resource Planned Outages (2019-2021)