



Item 11.1: Approval of Methodology for Calculating Maximum Daily Resource Planned Outage Capacity – ERCOT Recommendation

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Vice President of System Planning and
Weatherization

Board of Directors Meeting

ERCOT Public

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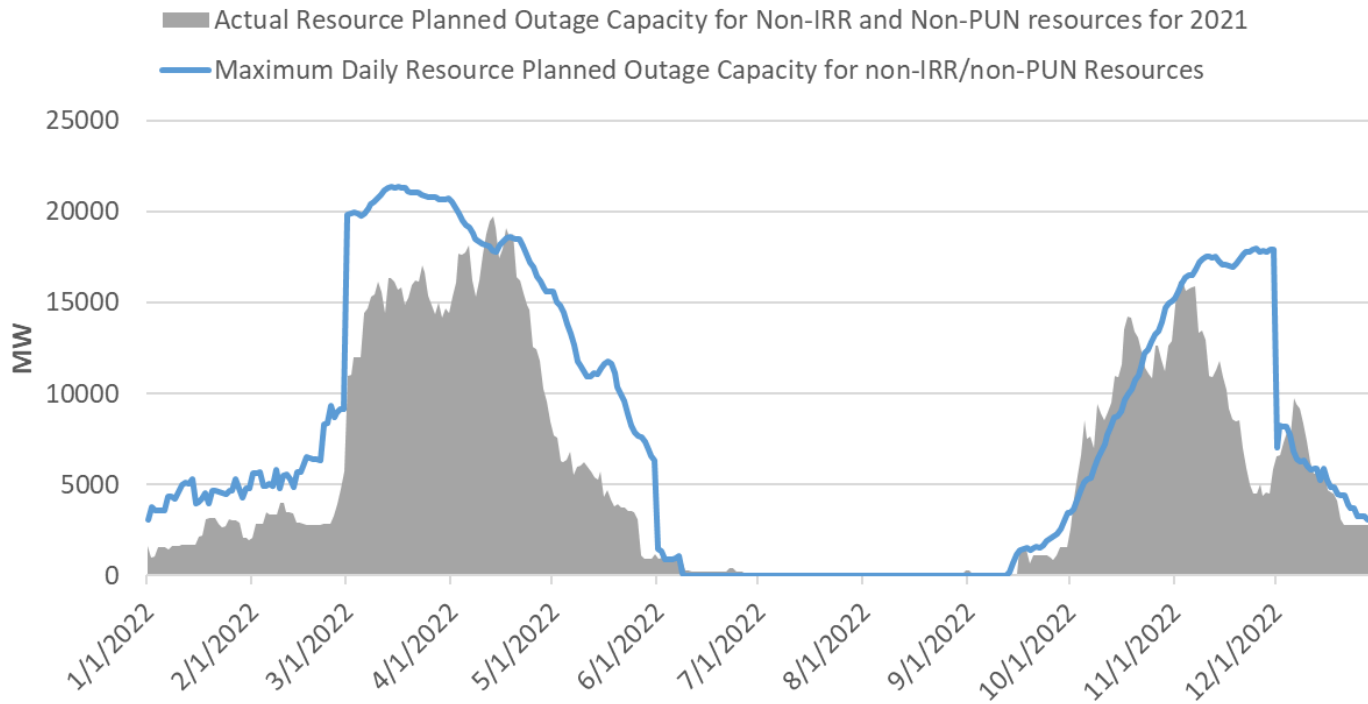
Current Inputs for the Maximum Daily Resource Planned Outage Capacity Calculation

Components included in the Maximum Daily Resource Planned Outage Capacity Calculation	Spring	Summer	Fall	Winter
installed thermal Generation Resource seasonal capacity is consistent with the calculation used in the Protocol Section 3.2.6.2.2 for the applicable seasons excluding IRRs, Generation Resources in industrial generation facilities, ESRs, and DGR/DESRs, and peak average capacity of hydroelectric Generation Resources is consistent with the calculation used in the Protocol Section 3.2.6.2.2 for the applicable seasons	66134	64153	64655	67933
Switchable Generation Resource (SWGR) capacity available to ERCOT is consistent with the calculation used in the Protocol Section 3.2.6.2.2 for the applicable seasons	3133	3056	3081	3294
available mothballed capacity is consistent with the calculation used in the Protocol Section 3.2.6.2.2 for the applicable seasons	378	588	0	0
capacity from private use network (PUN) is consistent with the calculation used in the Protocol Section 3.2.6.2.2 for the applicable season	2875	3210	2743	3549
DC Tie capacity is consistent with the calculation used in the Protocol Section 3.2.6.2.2 for the application seasons	720	850	720	720
targeted reserve level is consistent with the Outage Adjustment Evaluation (OAE) in the Advance Action Notice (AAN) process described in the Protocol Section 3.1.6.9	6500	6500	6500	6500
installed IRR capacity is determined based on the 10th percentile of hourly historical wind and solar output for the peak load hours of the same season for the previous three years	9402	4883	6990	4299
capacity of planned thermal Generation Resources is determined based on the thermal Generation Resources that meet the requirements of Planning Guide Section 6.9, the associated maximum sustainable capacity and the planned in-service date for each Resource identified in the unit registration process	reference: Monthly Generator Interconnection Status Report, https://www.ercot.com/misapp/GetReports.do?reportTypeId=15933			
capacity of planned IRRs is determined based on the installed capacity of those IRRs that meet Planning Guide Section 6.9, the planned in-service date for each IRR identified in the unit registration process, and the IRR's expected power production for the relevant season				
the forecasted Demand reduction provided by price-responsive Demand is consistent with the Outage Adjustment Evaluation (OAE) in the Advance Action Notice (AAN) process described in the Protocol Section 3.1.6.9	1500	1500	1500	1500
unplanned outage capacity for thermal Generation Resources is calculated based on 99th percentile of unplanned outages for the same seasons of preceding 3 years	13567	8316	11364	10226
long term Load forecast is determined for the study years based on the 50th percentile of the historical load profile, smoothed using a rolling 7-day average.	reference: Long-Term Load Forecast Report, https://www.ercot.com/files/docs/2022/02/10/2022_LTLF_Hourly.xlsx			

ERCOT Maximum Daily Resource Planned Outage Capacity (MDRPOC)

- The methodology proposed by ERCOT provides at least a 22% margin for Non-IRR and Non-PUN resources to schedule their Planned Outages through 2026 when 2021 actual Planned Outages are used as the baseline.
- ERCOT will review the proposed methodology at least annually and work with stakeholders to adjust as necessary to maintain grid reliability while accommodating the needs of Resources to schedule their Planned Outages.

	Y2022	Y2023	Y2024	Y2025	Y2026
Outage Margin Compared to 2021 Actual Planned Outage <i>(Maximum Capacity-Actual 2021 Outage Capacity)/Actual 2021 Outage Capacity</i>	38%	51%	40%	30%	22%



Methodology Review and Revision Process

- NPRR1108 - ERCOT Shall Approve or Deny All Resource Planned Outage Requests was approved on May 12, 2022
 - ERCOT shall post on the ERCOT website the methodology it uses to calculate the Maximum Daily Resource Planned Outage Capacity (MDRPOC).
 - ERCOT shall issue a Market Notice and provide at least 14 days for stakeholder comment when changes are to be made to the methodology.
 - The methodology and any future revisions shall be submitted to the ERCOT Board of Directors for approval.
 - ERCOT shall post the revised methodology on the ERCOT website and issue a Market Notice announcing the posting.
- Timeline of stakeholder comments for the MDRPOC being considered today.

