



Item 10.2: 2020 Summer Operations

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Urgent Board of Directors Meeting

ERCOT Public

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Summer 2020: Resource Adequacy Outlook

- Anticipating record peak demand of 75,200 MW
 - Forecasted peak demand is 380 MW higher than the all-time peak demand record set last August
 - This forecast is 1,496 MW less than the preliminary forecast due to currently anticipated impacts of COVID-19 on peak demand
- Planning reserve margin for summer 2020 is 12.6%
- Higher demand, low wind or higher forced outages could result in a need to enter Energy Emergency Alert (EEA) status to maintain system reliability
 - ~2,400 MW of additional resources become available during EEA

Seasonal Assessment of Resource Adequacy Outlook

Summer 2020	Forecasted Season Peak Load ¹	Forecasted Season Peak Load / Extreme Generation Outages ²	Forecasted Season Peak Load / Low Wind Output ³	Extreme Peak Load / Typical Generation Outages
Total Resources (as of May 13)	82,199 MW			
Peak Load	75,200 ¹			78,416 ⁴
Unavailable Capacity	4,069	7,001	9,088	4,069
Capacity Available for Operating Reserves	2,930	(2)	(2,089)	(286)

¹ Based on average weather from 2004-2018, adjusted for expected impact of COVID

² Based on historical average of forced outages for June through September weekdays, hours ending 2 pm - 8 pm, for 2017 – 2019, plus additional forced outages at 95th percentile

³ Based on 5th percentile of wind output during 100 highest Net Load hours for the 2015-2019 summer seasons (1,622 MW)

⁴ Based on 2011 summer weather, adjusted for expected impact of COVID



Summer 2020 Transmission Outlook

- No wide-area reliability concerns expected this year, barring significant outages
- May experience congestion in some areas
 - Far West Texas due to high load and solar generation
 - Export constraints from Panhandle and areas of West Texas and Valley during high wind conditions



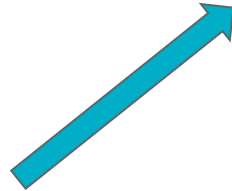
Operational Changes for Summer 2020

- NPRR 884 - Adjustments to Pricing and Settlement for Reliability Unit Commitments (RUCs) of On-Line Combined Cycle Generation Resources
- NPRR 968 – Revise EEA Level 3 Triggers from 1,375 MW to 1,430 MW to Align with New Most Severe Single Contingency Value
- NPRR 997 – Natural Gas Pipeline Coordination Requirements for Resource Entities with Natural Gas Generation Resources
- Several other NPRRs and System Change Requests that improve operational information transparency have been implemented



Summer Preparations

- Annual transmission outage restrictions 5/15 – 9/15
- Increased infrastructure for supplying public data
- Summer communications manual
- Energy Emergency Alert (EEA) training for operators



Questions?