



Item 5.2: 2019 Summer Operations

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Board of Directors Meeting

ERCOT Public

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Summer 2019: Resource Adequacy Outlook

- Anticipating record peak electric demand in summer 2019
 - Forecasted peak demand is 1,300 MW higher than the all-time peak demand record set in July 2018
- Planning reserve margin for summer 2019 is 8.6%
- In various peak season stress scenarios studied, ERCOT identified a potential need to enter Energy Emergency Alert (EEA) status to maintain system reliability
 - 2,000 to 3,000 MW of additional resources become available during an EEA



New operational units included in this report:



162 MW wind



172 MW solar

Summer capacity rating

Seasonal Assessment of Resource Adequacy Outlook

Summer 2019	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 5)	78,929 MW			
Peak Load	74,853 ¹		78,156 ⁴	
Unavailable Capacity	4,226	6,891	8,164	4,226
Capacity Available for Operating Reserves	(150)	(2,815)	(4,088)	(3,453)

¹ Based on normal weather from 2003-2017

² Based on typical generation outages (average historical planned and forced outages during peak hours for June-September weekdays, starting in 2016), plus additional forced outages at 90th percentile

³ Based on 10th percentile of wind output during 100 highest Net Load hours for the 2015-2018 summer seasons (960 MW)

⁴ Based on 2011 summer weather



Summer 2019 Transmission Outlook

- No expected wide-area reliability concerns this year, barring significant outages
- May experience congestion in some areas
 - Far West Texas due to rapid load growth and solar generation development
 - Panhandle export
 - Localized areas in the Hill Country, Corpus Christi, and Rio Grande Valley



Operational Changes for Summer 2019

- NPRR 776, Voltage Set Point Communication
- SCR 795, Addition of Intra-Hour Wind Forecast to GTBD (Generation to be Dispatched)
- NPRR 901, Switchable Generation Resource Status Code

Summer Preparations

- Transmission Outage Restrictions May 15 – September 15
- Enhanced internal communications tools
- Operator Energy Emergency Alert (EEA) Training
- EEA Communication Training

