

#### **Item 5.2: 2019 Summer Operations**

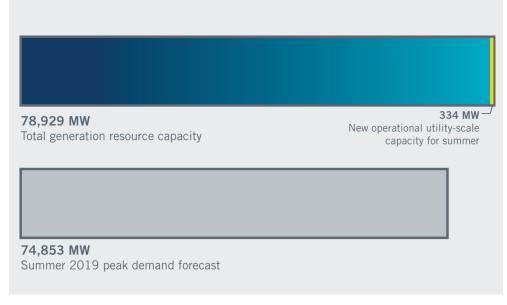
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**Board of Directors Meeting** 

ERCOT Public June 11, 2019

#### **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:





172 MW solar

Summer capacity rating



## **Seasonal Assessment of Resource Adequacy Outlook**

Summer 2019	Forecasted Season Peak Load <sup>1</sup>	Forecasted Season Peak Load / Extreme Generation Outages <sup>2</sup>	Forecasted Season Peak Load / Low Wind Output <sup>3</sup>	Extreme Peak Load / Typical Generation Outages
Total Resources (as of May 5)	78,929 MW			
Peak Load	74,853 <sup>1</sup>			78,156 <sup>4</sup>
Unavailable Capacity	4,226	6,891	8,164	4,226
Capacity Available for Operating Reserves	(150)	(2,815)	(4,088)	(3,453)

- <sup>1</sup> Based on normal weather from 2003-2017
- <sup>2</sup> Based on typical generation outages (average historical planned and forced outages during peak hours for June-September weekdays, starting in 2016), <u>plus</u> additional forced outages at 90<sup>th</sup> percentile
- <sup>3</sup> Based on 10<sup>th</sup> percentile of wind output during 100 highest Net Load hours for the 2015-2018 summer seasons (960 MW)
- <sup>4</sup> 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



