



Summer Preparedness Workshop Technical Advisory Committee

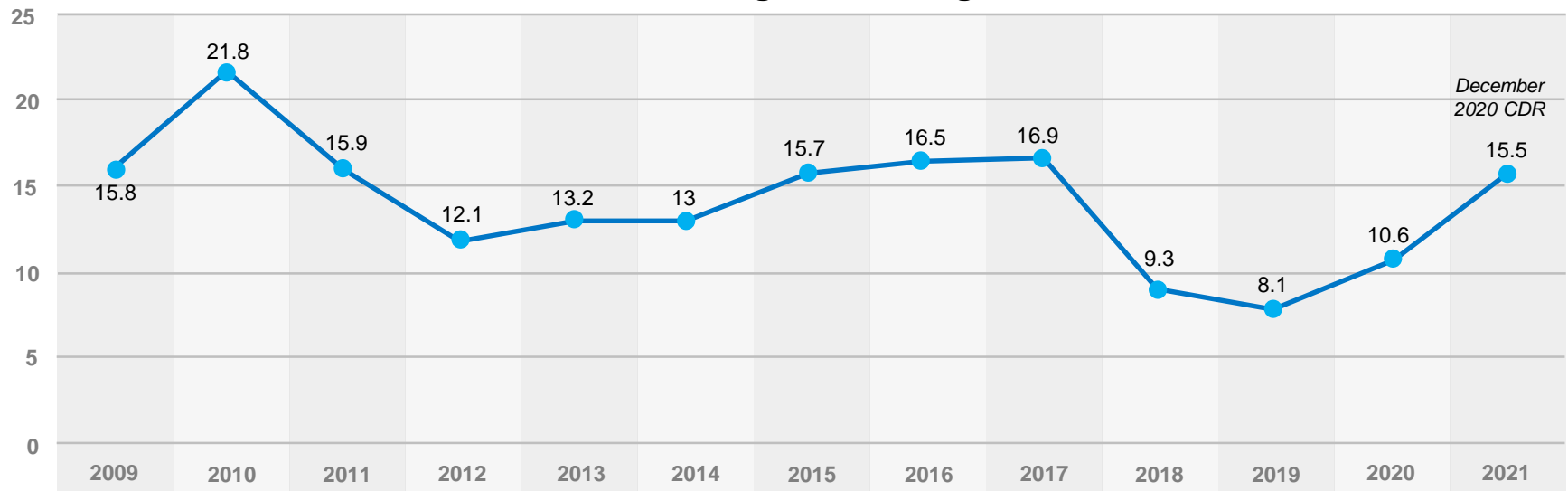
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Grid Planning and Operations

ERCOT Public
May 3, 2021

Summer Expectations

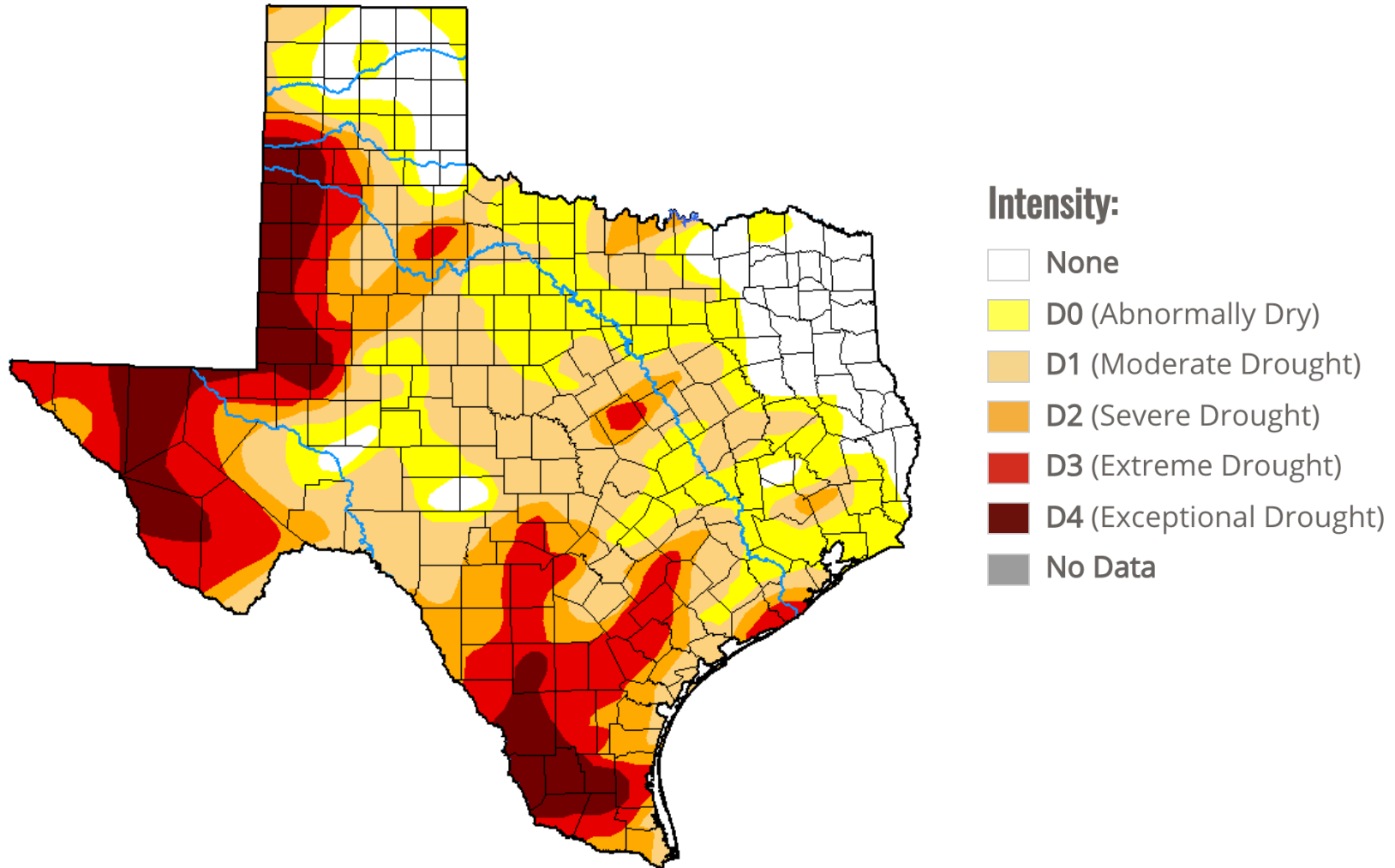
- Final Summer SARA will be released later this week
- Preliminary SARA indicates a peak above 77,000 MW which would be a new load record
- December CDR reported a 15.5% reserve margin
- This will be the first summer where we anticipate some impact from Battery Storage devices with almost 1000MW available by summer peak

Reserve Margin Percentage



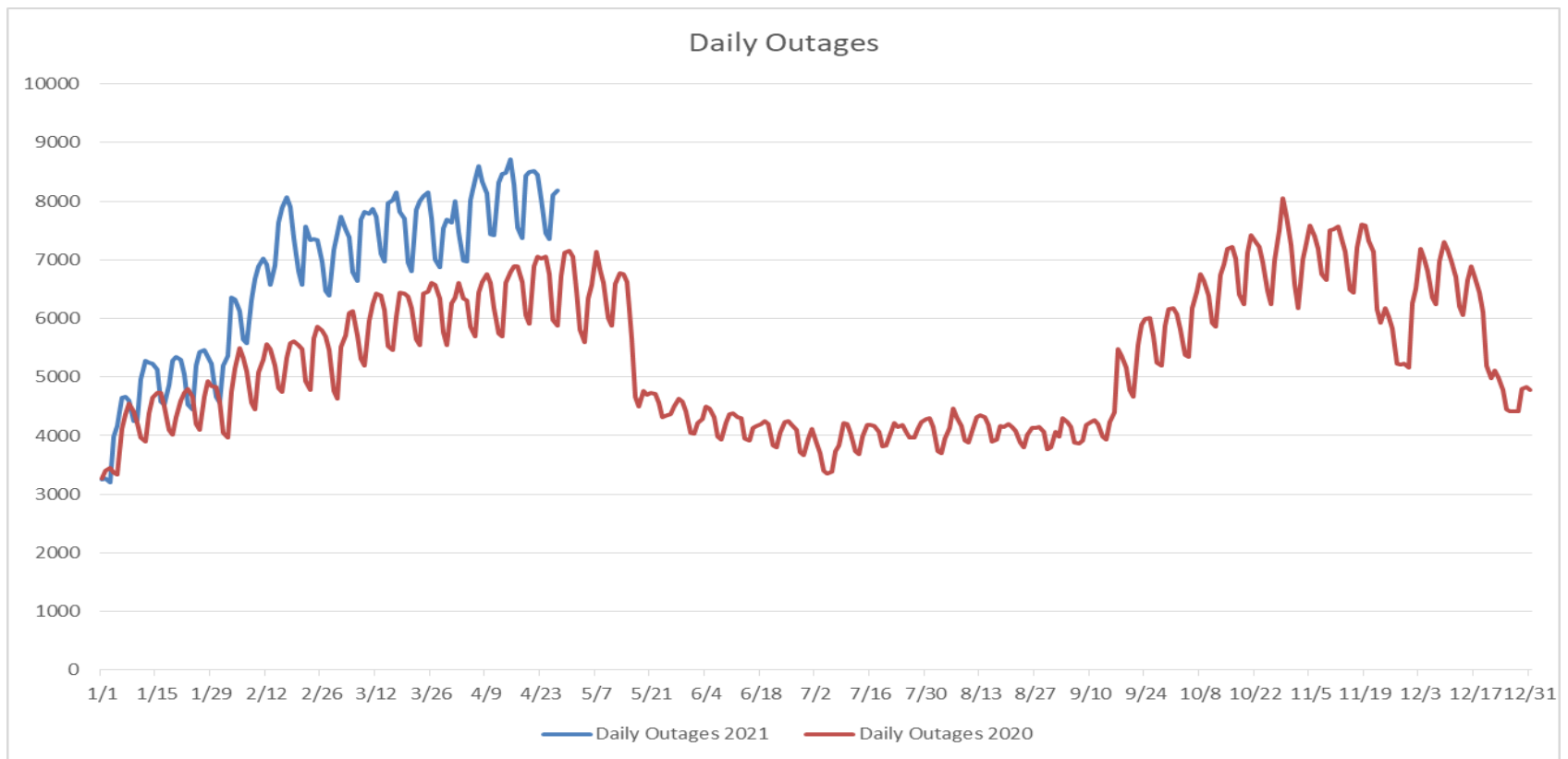
Current Drought Assessment

Released: April 29, 2021



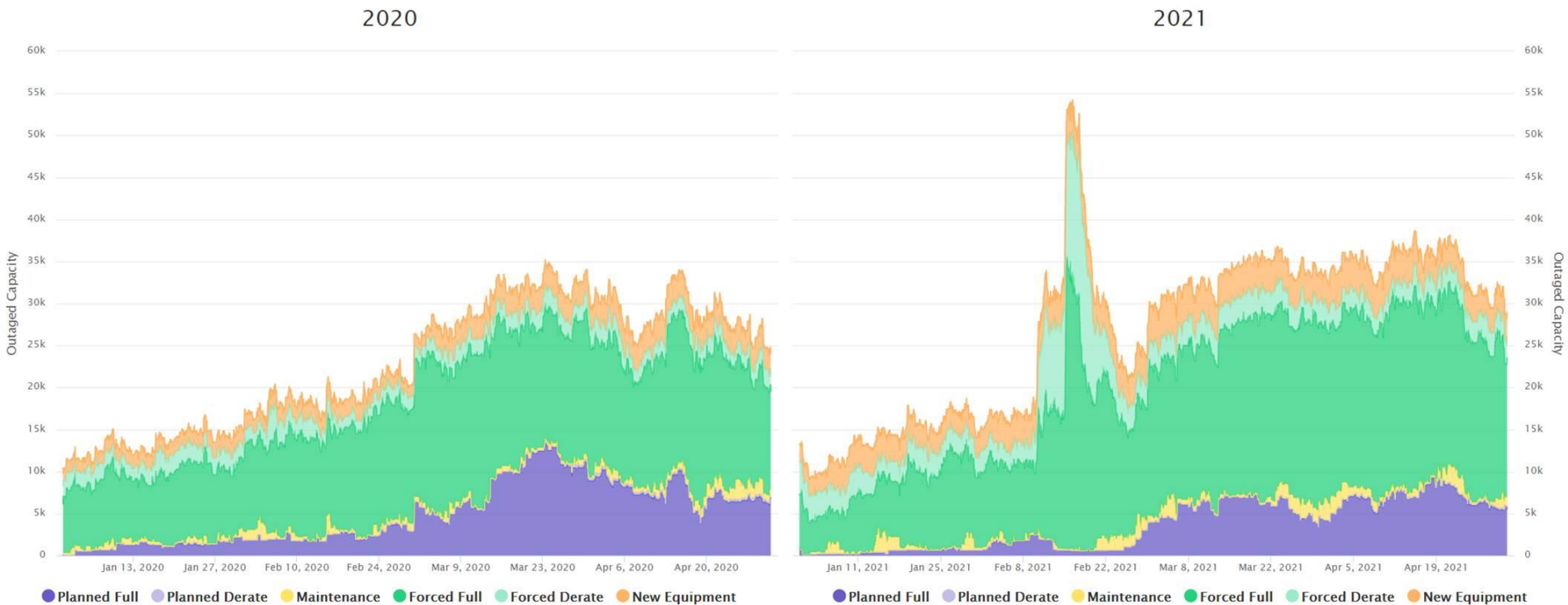
Spring Outage Coordination

- Graph represents both Transmission and Resource Outages.
- Large number of outages being processed this Spring in preparation for Summer.
- Several factors are involved in the increased number of outages.
- Important to reduce the number of outages during the summer months.



Resource Outage Coordination

- Resource Outages in Spring of 2020 and 2021.
- March and April are traditionally months in which a large amount of thermal generation undergoes routine maintenance in preparation for Summer.
- The effects of Winter Storm Uri can be seen in 2021.



Planned Transmission Outage Restrictions

- Market Notice January 26th, 2021: Planned Transmission Outage Restrictions for Summer.
- Manage Transmission Outages that might limit generation availability during high load conditions.
- Revision of standards from Summer 2020

Planned Transmission Outage Restrictions continued

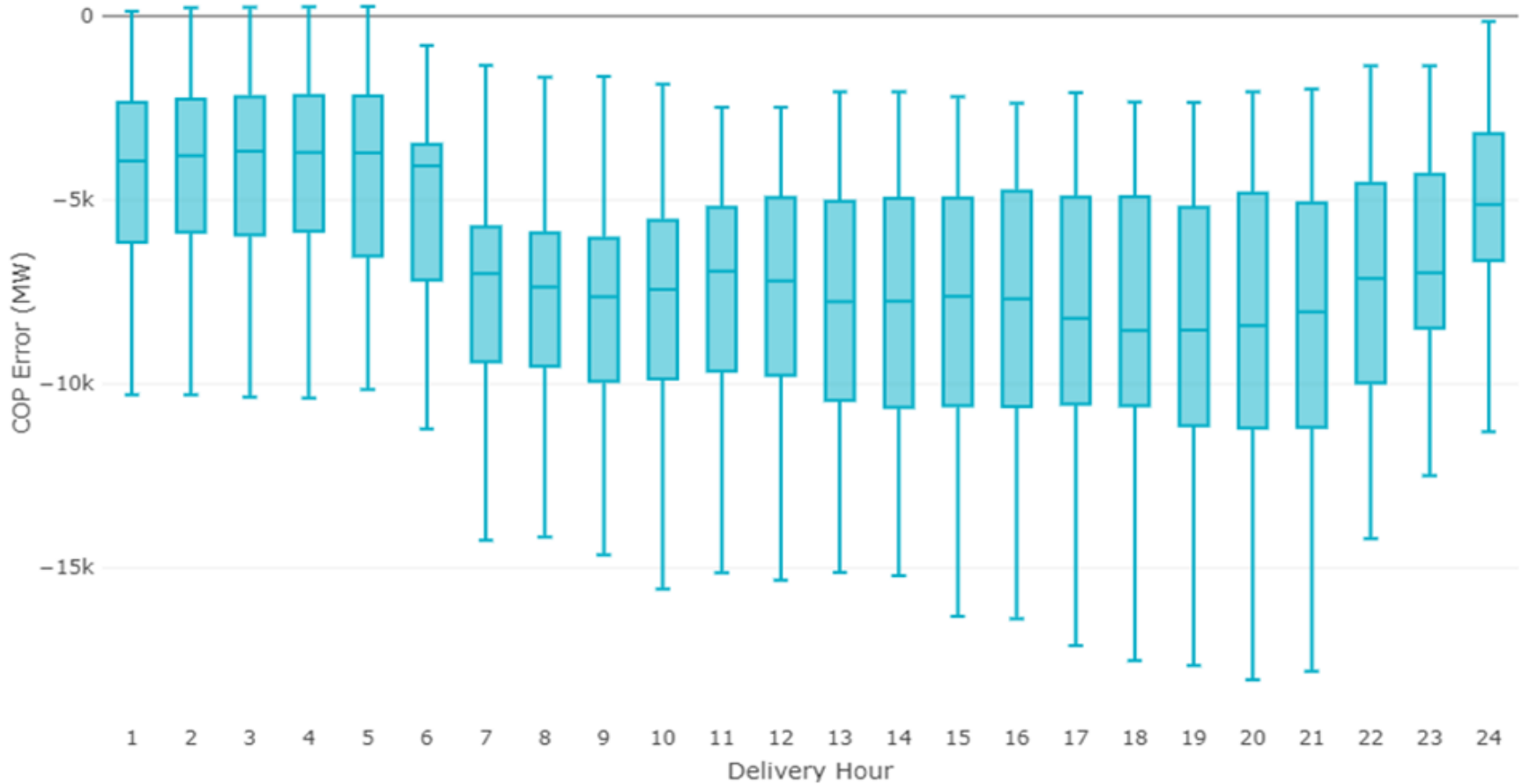
May 15 through September 15

- 345kV
 - *No Outages during Hour Ending (HE) 1300 through HE 2000.*
 - *No 345kV bus Outages that alter system topology (pre- or post-contingency). Outages on double breaker or breaker-and-a-half buses may be allowed with a 4-hour restoration. Transmission Service Providers (TSPs) are required to ensure proper interim contingency definitions are included in the Network Operations Model prior to the Outage occurring so that ERCOT systems can properly assess system conditions during the bus Outage.*
- 138kV
 - *No Outages during HE 1300 through HE 2000 if the Outage may affect generation dispatch.*
 - *No continuous 138 kV Outages longer than 7 days.*
 - *No continuous 138 kV Outages with a restoration time greater than 6 hours.*
- 69kV
 - *No Outages during HE 1300 through HE 2000 if the Outage would affect generation dispatch.*

Resource (COP Values)

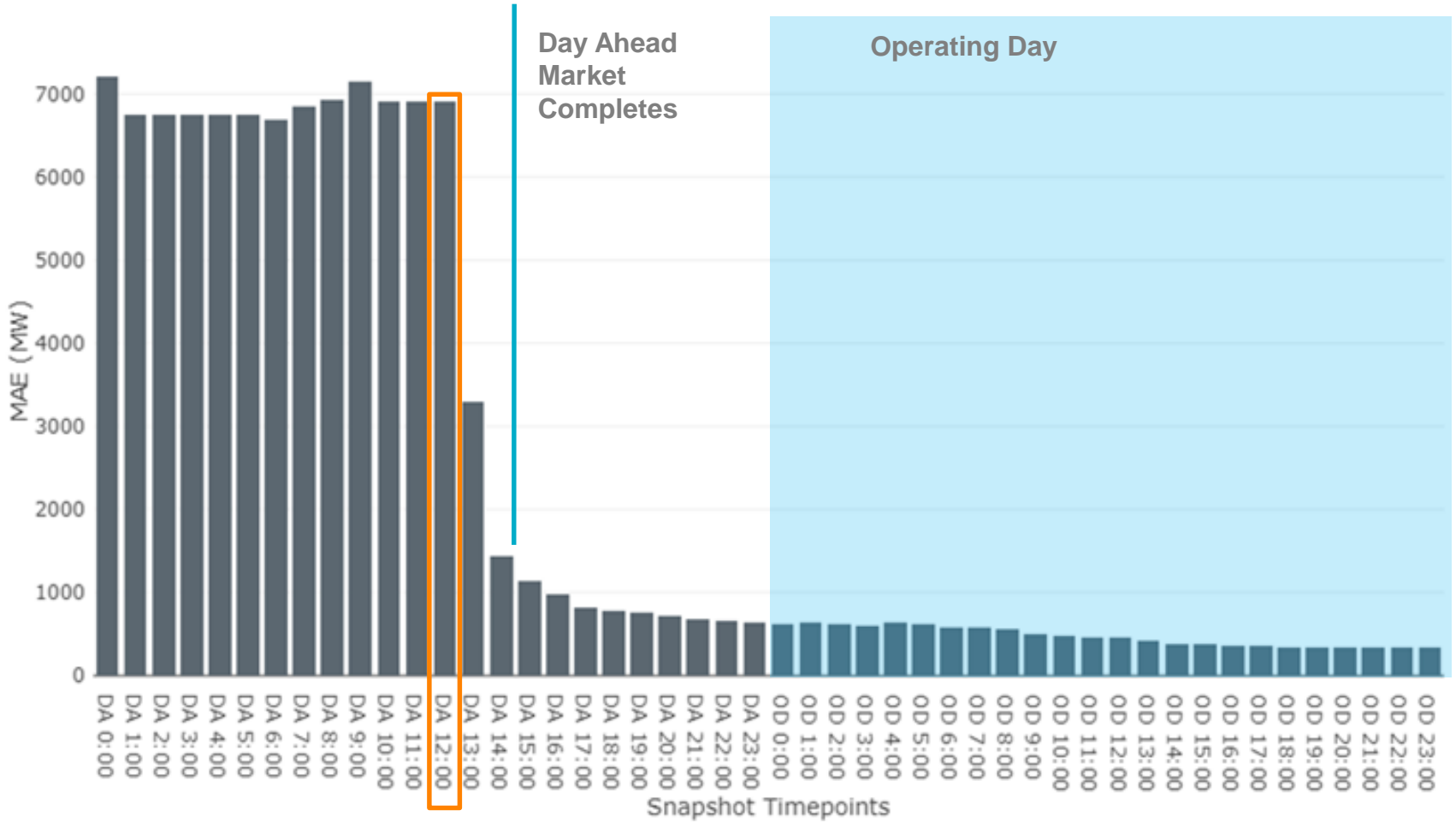
March 2021 - Monthly COP Error by Delivery Hour: Day-Ahead at 12:00

Excludes Renewables and Startup/Shutdown Monthly Mean Absolute Error (MAE) = 6,902 MW



Resource COP Values

Monthly Mean Absolute Error for March



6,902 MW from Slide 8

Generator Weatherization

- ✓ Generation owners and operators are not required to implement any minimum weatherization standard or perform an exhaustive review of weather vulnerability. No entity, including the PUC and ERCOT, currently has rules to enforce compliance with weatherization plans or enforce minimum weatherization standards.
- ✓ In 2011, the PUC amended its rules to authorize ERCOT to conduct generator site visits to review compliance with weatherization plans. Spot checks include reviewing the weatherization plan, verifying that plant personnel are following the plan and providing recommendations based on PUC requirements, lessons learned or best practices.
- ✓ While we request and review detailed plant records, the only entity that can confirm that a plant is “weatherized” to any particular standard is the entity that owns or operates the plant.
- ✓ Similar to the Winter Spot Checks, ERCOT will implement Summer Spot Checks for a limited number of units in May and June of 2021.
- ✓ The Spot Checks will consider the implementation of each unit’s Weatherization Plan, with the focus being on preparations for summer operations.

Gas and Electric Coordination

NOTICE DATE: April 30, 2021

NOTICE TYPE: W-A043021-01 Operations

SHORT DESCRIPTION: Reminder of Upcoming Submission Period for Declarations of Completion of Generation Resource Summer Weatherization Preparations and Natural Gas Pipeline Coordination for Resource Entities with Natural Gas Generation Resources

INTENDED AUDIENCE: Resource Entities with Generation Resources

DAYS AFFECTED: May 1, 2021 to June 1, 2021