

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**

Order Instituting Rulemaking to Oversee
the Resource Adequacy Program, Consider
Program Refinements, and Establish
Forward Resource Adequacy Procurement
Obligations.

Rulemaking 19-11-009
(Filed November 7, 2019)

**CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION
NOTICE OF AVAILABILITY
FINAL 2021 FLEXIBLE CAPACITY NEEDS ASSESSMENT AND
FINAL 2021 AVAILABILITY ASSESSMENT HOURS**

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Dated: May 15, 2020

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I. Introduction

Pursuant to the January 22, 2020 Assigned Commissioner Scoping Memo and Ruling, the California Independent System Operator Corporation (CAISO) hereby provides notice to the service list for Rulemaking 19-11-009 that its 2021 Final Flexible Capacity Needs Assessment and 2021 Final Availability Assessment Hours have been posted publicly on the CAISO's website.

- The 2021 Final Flexible Capacity Needs Assessment is available at:
<http://www.caiso.com/Documents/Final2021FlexibleCapacityNeedsAssessment.pdf>.
- The 2021 Final Availability Assessment Hours is available at:
<http://www.caiso.com/informed/Pages/StakeholderProcesses/FlexibleCapacityNeedsAssessmentProcess.aspx>.

In addition to providing the assessments, this filing highlights an accuracy analysis of the CAISO's prior forecasts versus actual performance.

II. Discussion

The 2021 Flexible Capacity Needs Assessment includes, for the first time, an accuracy analysis comparing the forecasted maximum three-hour net load ramp with actual observed ramps for each month from 2016 through 2019.¹ The analysis compares the forecast for each

¹ See 2021 Flexible Capacity Needs Assessment, pp 9-11.

year, which was developed using the previous year's one-minute actual load, wind, and solar data, with the actual observed three-hour net load ramp. For example, the 2017 forecast was created in 2016 using 2015's 1-minute load, wind and solar data. For comparison years 2018 and 2019, the CAISO was able to include the impact of renewable curtailment in the comparison. The analysis found that the forecasting methodology typically has a low bias, representing that actuals came in higher than what was forecasted. Across all four years, 33 of the 48 months were under-forecasted and at most by 30 percent variance between forecast and actual observed performance, including accounting for curtailment in 2018 and 2019. On the other hand, the CAISO over-forecasted in only 15 of the 48 months and at most by 16 percent.

III. Conclusion

The CAISO looks forward to working with the Commission to establish 2021 flexible capacity requirements and availability assessment hours.

Respectfully submitted,

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