Summer Readiness
July 2022 Performance

Market Analysis and Forecasting
California ISO
August 30, 2022
Reminders:

• This call is being recorded for informational and conveniences purpose only. Any related transcription should not be reprinted without the ISO permission.
• Calls are structured to stimulate open dialogue and engage different perspectives with the understanding that stakeholder have reviewed the material.
• Please raise your hand if you have a question or comment at any time during the meeting and the facilitator will call on you.
• Please start by stating your name and affiliation
• In the interest of time, please refrain from repeating or reiterating what has already been said.

Thank you for joining us, and we look forward to an engaging discussion.
Instructions for raising your hand to ask a question

• If you are connected to audio through your computer or used the “call me” option, select the raise hand icon located on the top right above your chat window.

• Note press#, then 2 only works if you dialed into the meeting.
  – Please remember to state your name and affiliation before making your comment

• You may send your questions via chat to either Brenda Corona or to all panelists.
Summary of summer enhancements in place for summer 2022

<table>
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<tr>
<th>Summer enhancement</th>
<th>Date Implemented</th>
<th>Trigger</th>
<th>Dates Triggered</th>
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<tr>
<td>EIM resource sufficiency test</td>
<td>1-Jun-2022</td>
<td>Permanent feature</td>
<td>All the time</td>
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<td>Import market incentives during tight system conditions</td>
<td>15-Jun-2021</td>
<td>Warning or Emergency</td>
<td>Not triggered</td>
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<td>Intertie schedules information on OASIS</td>
<td>26-Jul-2021</td>
<td>Permanent feature</td>
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<tr>
<td>Enhanced real-time pricing signals during tight supply conditions</td>
<td>15-Jun-2021</td>
<td>Warning or Emergency</td>
<td>Not triggered</td>
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<td>Management of storage resources during tight system conditions</td>
<td>30-Jun-2021</td>
<td>RUC undersupply</td>
<td>Not triggered</td>
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<td>Reliability demand response dispatch and real-time price impacts</td>
<td>4-Aug-2021</td>
<td>Activation of RDRR</td>
<td>Not triggered</td>
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<td>Load, export and wheeling priorities</td>
<td>4-Aug-2021</td>
<td>Permanent feature</td>
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<td>CAISO’s public communication protocols</td>
<td>29-May-2021</td>
<td>System Event driven</td>
<td>Not triggered</td>
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<td>Today’s Outlook displays</td>
<td>Aug 18-2021</td>
<td>Permanent feature</td>
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<td>Resource sufficiency test</td>
<td>Jun 1, 2022</td>
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<td>Enhancements to supporting resources for exports</td>
<td>June, 2022</td>
<td>Permanent feature</td>
<td>All time</td>
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<td>Further visibility for supporting resources</td>
<td>June, 2022</td>
<td>Permanent feature</td>
<td>All time</td>
</tr>
<tr>
<td>Additional transparency for load conformance</td>
<td>June, 2022</td>
<td>Permanent feature</td>
<td>All time</td>
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</tbody>
</table>

*The wheeling through priorities the CAISO placed into effect are interim with an original sunset date of May 31, 2022. CAISO filed at FERC to extend these provision from June 1, 2022 through May 31, 2023 while it develops a long term policy for Forward Scheduling.*
Above Average and much above average were observed throughout the Southern Western United States.
The CAISO’s load peak for the month happened on July 18 at about 41,810 MW, below the CEC forecast of 48,387 MW.

CAISO’s load did not exceed the monthly CEC forecast, and monthly RA showings were above CAISO’s load plus operating reserves.
July’s conditions were mild and did not require use of further actions to handle stressed supply

- There were no energy warning or EEAs
- CAISO did not trigger scarcity pricing
- There were no undersupply conditions in the day-ahead market
- The minimum state of charge constraints were not enforced
- Reliability demand response was not activated
Monthly RA showings for July 2022 RA is comparable to July’s 2021 values

- Gas: -132 MW
- Hydro: -117 MW
- Storage: +1590 MW
- Imports: -921 MW

RA July 2021: 49,780 MW
RA July 2022: 50,988 MW
Prices across CAISO’s markets for the month of July relatively stable with relative high gas prices
RA capacity was generally sufficient in July to meet load needs.
Majority of unavailable RA capacity is from the gas–fired resources
Average net intertie schedules for peak hours was about 5,700 MW for July.
Volume of exports in CAISO’s market reflects overall supply conditions in July.
There were no RUC undersupply infeasibilities in July, but very low volume of economic exports were reduced on July 19-21.
About 408 MW of 1,334 MW registered wheels were bid in the day-ahead market; this is about 30 percent utilization.

No wheel-through transactions were curtailed in July.
Volumes of DAM cleared wheels peaked at 1,404 MW on July 7.
Wheels cleared in real time market were mostly from the day-ahead market.
Over 97 percent of RA imports bid in at or below $0/MWh in July.
Storage resources exceeded 2,000MW of energy dispatches
Average daily wholesale cost in July was about $56.89 million
NEXT STEPS
Next Steps

• All related information for the Miscellaneous stakeholder meetings is available at:
  http://www.caiso.com/informed/Pages/MeetingsEvents/MiscellaneousStakeholderMeetings/Default.aspx
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