Title: Data Transparency Improvements 2022

The California ISO has implemented a suite of transparency related enhancements which includes new data elements to be added to existing reports, creating new reports for improved data analysis and in some cases provides increased clarity of existing information. The details about all the improvements are summarized in this document.

Today’s Outlook information: The counting methodology for battery capacity has been modified to reflect units online that have reached commercial operation date, and no longer includes those in the commissioning process. This provides an accurate count of the amount of MWs that are currently on-line to serve demand and is a level of detail that was often requested by stakeholders and interested parties. This improvement was completed on March 31, 2022.

A redesign of the existing capacity chart was completed on June 15, 2022, to better define available capacity as well as provide granularity of reserves. This enhancement provides real-time data on the current demand along with the amount of capacity available on the grid to meet changes in demand. This information is updated every five minutes and can be used to inform situational awareness.
The ISO has posted a new Daily Energy Storage Report to provide market participants with selected metrics on the performance of storage and hybrid resources, including bid-in capacity, awards, state of charge, and procurement of ancillary services for both day-ahead and real-time markets, to bring improved visibility to how storage and hybrid resources are being dispatched in the ISO markets.

The ISO added a highlighted line on the demand trend that visually indicates when a Demand Response event has occurred and the subsequent divergence from the load forecast. This enhancement brings visibility to a demand response event and the overall impact of load reduction.
OASIS data: Publication of RUC/HASP/RTPD/RTD adjustments (load forecast adjustments/load bias) and publication of curtailment (schedule reduction) data (wheels, exports, load). These enhancements provide real-time operational data that is beneficial to market participants since these adjustments determine the final forecast used in market runs, which impacts price formation, generation dispatch schedules, and import/export schedules. This was completed on June 8, 2022.

Navigation path: OASIS > System Demand > Load Adjustments

Navigation path: OASIS > Energy > Schedule > Schedule Reductions
Additional WEIM Data Transparency and Reporting: The ISO increased the amount of information provided from balancing tests by adding data from the resource sufficiency evaluation (RSE) capacity tests and the flexible ramping tests. These enhancements improve market efficiency by providing information at a more granular level so that WEIM market participants are able to identify factors that may contribute to passing/failing a balancing test. This enhancement was completed on June 15, 2022.

**Navigation path:** OASIS > Energy > Energy Imbalance Market > WEIM RSE Capacity Tests

**Navigation path:** OASIS > Energy > Flexible Ramping > Flexible Ramp Requirements Inputs and Outputs
Transmission data: The ISO published a draft of its first 20-Year Transmission Outlook in February 2022 to help enable and accelerate the integration of new renewable resources onto the grid and to expand the planning horizon and bring together a wide cross-section of stakeholders to identify and set priorities for different possible solutions. The transparency will help developers make more informed decisions on infrastructure planning and development.

Transmission data: Transmission project tracking information; In conjunction with the CPUC and PTOs, quarterly public stakeholder forums provide status updates on the transmission projects previously approved through the transmission planning process and network upgrades identified in the generation interconnection process. This additional transparency will help market participants make more informed decisions when going through the procurement process, likely leading to a reduced number of interconnection requests. This process started at the beginning of 2022 and the meetings are conducted quarterly. Meeting materials related to the Transmission Development Forum can be found here, or on CAISO.com > Stay Informed > Meetings and Events > User groups and recurring meetings.

Interconnection data: Summary information gathered from various studies/reports to help interconnection customers identify locations where resources can connect without requiring costly and long lead time upgrades. Stakeholders will be able to independently evaluate the interconnection queue trends and be able to develop data driven opinions of the various reforms. This additional data will also allow for more effective and efficient queue position evaluations and data analysis. It will also provide a more realistic picture of when additional capacity is expected to come online. The ISO is currently in the process of getting necessary data into the Resource Interconnection Management System (RIMS), and will then determine how to efficiently and effectively publish such data. Data has not yet been published.

Market performance data: The ISO published an explanation of data included in the Day-Ahead Summer Reports on May 9, 2022, which provides an explanation of each element of the Day-Ahead Summer Report.