California ISO Readiness Notes

Title: Enhancements to Load Forecast Report in CMRI UI

Expected Production Date: June 11, 2025

Link to associated training documents (if applicable): N/A

Contact: CustomerReadiness@caiso.com or submit a CIDI ticket

TCR(s) or Project Associated: RC Forecast Data Reporting Automation, Phase 1

Targeted Audience: RC West and RC Entities

Details:
California ISO is implementing an update to the existing Load Forecast report, which is located under the Reliability Coordination tab in the Customer Market Results Interface (CMRI) UI application. This update will automate reporting information, enhancing efficiency and reliability.

Background
The reports available under the Reliability Coordination tab encompass load forecast, generation forecast, and contingency reserve data. Information submitted daily by Reliability Coordinator (RC) customers and adjacent RCs is requested in accordance with the North American Electric Reliability Corporation (NERC) Standard IRO-010. This data is essential for RC West to perform operational performance analysis, ensuring compliance with NERC Standards IRO-008 and TOP-002.

Current Process and System Limitations
At present, CAISO manually sends email notifications to impacted entities regarding missing or invalid forecast submissions to the Automated Load Forecast System (ALFS), instructing them to provide the necessary data. This information is then submitted for Day-ahead studies and market forecasting. However, the system lacks an automated mechanism to notify users of submission errors or to confirm whether a zero MW submission is a valid value. As CAISO resolves these issues internally, external users remain unaware of submission discrepancies. With these enhancements, entities will be able to distinguish between data they have submitted, and data generated by CAISO. Previously, if entities encountered issues, they had no way of identifying the source of the submission problem.

Enhancement

CAISO is introducing a new reporting and notification process to enhance transparency in load forecast submissions. This initiative will systematically inform each Balancing Authority (BA) of submission errors, instances of 0 MW hourly reporting, or missing load submissions. Each BA will only see their own errors and successful submissions to troubleshoot.

As part of this effort, two new tables will be incorporated into the Load Forecast report under the Reliability Coordination tab, providing users with critical insights into impacted dates and times, relevant Balancing Authorities (BAs) and Balancing Authority Areas (BAAs), Forecast Zone Error Details, and the original source of the data. Additionally, an automated email notification system will be implemented to promptly alert Balancing Authorities to load forecast submission errors, ensuring improved visibility and coordination across the system.
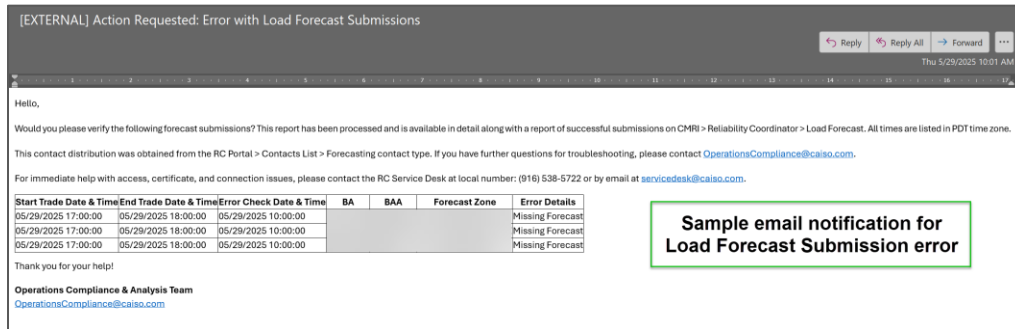
New tables

1. Submission Data Errors
   - **Error Check Date Time** – Date and time of when the system identified the error.
   - **Start Trade Date Time** –Timestamp of the impacted start trade date and time.
   - **BA** – Identify which Balancing Area is impacted.
   - **BAA** - Identify which Balancing Authority Area is impacted.
   - **Forecast Zone Error Details** – Description of the issue that was observed (i.e. 0 MW forecast lower than threshold, Forecast must be greater than 0, etc.)

2. Successful Submissions
   - **Submission Date Time** – Timestamp of when the data was submitted.
   - **Start Trade Date Time** – Timestamp of the impacted start trade date and time.
   - **End Trade Date Time** – Timestamp of the impacted end trade date and time.
   - **BA** – Identify which Balancing Area is impacted.
   - **BAA** - Identify which Balancing Authority Area is impacted.
   - **Forecast Zone** – Geographical area defined for the purpose of issuing weather forecasts, warnings, and advisories. It is also used in the market to set prices based on supply/demand and transmission constraints.
   - **Submitter** – Displays the certificate name of the submitter.

Automated email notification

The following is a sample of the new automated email notifications for load forecast submission errors, which will be distributed daily.

Sample email notification for Load Forecast Submission error

CMRI UI screenshots

Before

After

Two new tables