

Today's Outlook Tutorial

Please note: Today's Outlook is not used by ISO System Operators to operate the ISO Control Area. It does not have the capability to represent real-time system operating conditions, nor is it intended for that purpose. It is an approximation of the values represented. These are FORECAST values based on the California Independent System Operator's best information available at the time. Be mindful that there may be variations or inconsistencies in the data due to data quality or data transfer timing issues.

Explanation of graph and tables on Today's Outlook

Graph:-

Day Ahead Demand Forecast: The Day Ahead Demand Forecast is performed the previous day prior to running the Day Ahead Market and is based on historical system loads and temperatures. This trend represents the expected system load, in megawatts, that the ISO anticipates for each hour of the day. It is the forecast on which the Day Ahead Market run and resulting procurement of generation resources is based.

Revised Demand Forecast: The Revised Demand Forecast is updated hourly for the current hour and the next two hours and is based on the trend of actual system loads and temperatures.

Actual Demand: Today's actual system load trend, updated every ten minutes.

Available Resources Forecast: Comprised of Available Capacity from Participating and Non-Participating Generators, current wind generation and the ISO Control Area net scheduled interchange. The Operating Reserve requirement is not included in the Available Resources forecast, meaning that when the actual demand trend touches or exceeds this trend line, the ISO is using Operating Reserve Capacity to meet system demand.

Table:-

Available Generation Capacity Forecast: This represents capacity from the following three resources:

- **Participating Units*:** This value includes all ISO Participating Generators within the Control Area and dynamically scheduled units outside of the ISO Control Area, and takes into consideration unit capacity limitations due to outages, but excludes wind generation and units that have been granted a waiver from the Must Offer Obligation per ISO Operating Procedure M-432.
- **Non-Participating Units (Previous 5 Day Average):** The hourly average generation of Non-Participating Generators is a calculated value. It represents the difference between the CAISO Total Generation and the total generation of Participating Generators. The Non-Participating Generation value is averaged on an hourly basis from historical values over the previous 5-day period (excluding weekends and holidays) if the current day is a weekday. If the current day is a weekend or holiday, the non-participating hourly data over the two most recent weekends are averaged. The Non-Participating hourly values exclude wind generation.

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- **Wind:** This is the actual hourly generation of the wind units for today, updated every ten minutes, and projected through the next two operating hours. For wind generation sources on which the California ISO does not have telemetry (real-time data), the forward market generation schedules are used and are included in the hourly generation totals.

Net Scheduled Interchange: The Net Scheduled Interchange total is the net of all scheduled energy imports and exports resulting from the interchange schedules submitted to the California ISO by market participants from the previous day, updated for the current day as data becomes available. This total includes dynamic Import schedules.

Operating Reserve Requirement: The Operating Reserve Requirement is the margin of generating reserve required by the Western Electricity Coordinating Council (WECC) Minimum Operating Reliability Criteria (MORC). The margin is required by WECC as protection against the sudden loss of a generation resource and to meet the ISO's obligation to the interconnected western grid. For purposes of Today's Outlook, it is estimated to be 6.5% of the Demand Forecast. The Operating Reserve Requirement is not included in the Available Resources calculation.

Surplus/Deficiency: This number represents the resource capacity available to meet customer demand. If the value is negative, i.e., the Actual Demand and Available Resources Forecast trends converge; The ISO begins to use Operating Reserve to meet demand and may seek supply from other sources and/or may declare a system emergency.

Must Offer Obligation Waiver: This number represents capacity that is not available from Generating Units that have been granted a waiver from the Must Offer Obligation per ISO Operating Procedure M-432.

Please note, if there is a loss of supply large enough to force the California Independent System Operator into a state of emergency, the **Available Capacity Forecast** trend line may not reflect that loss until the information can be manually updated.

* **Participating Unit:** A Generator or other seller of Energy or Ancillary Services through a Scheduling Coordinator over the ISO Controlled Grid from a Generating Unit with a rated capacity of 1 MW or greater, or from a Generating Unit providing Ancillary Services and/or submitting Supplemental Energy bids through an aggregation arrangement approved by the ISO, which has undertaken to be bound by the terms of the ISO Tariff, in the case of a Generator through a Participating Generator Agreement.

IMPORTANT NOTE: All trend and tabular values are updated every 10 minutes. Please refresh your screen periodically. This page does not refresh automatically.

Automating Access to California Independent System Operator System Status Information.

If you are interested in re-publishing California Independent System Operator system status information you can access a comma-separated value (CSV) file. See <http://www.caiso.com/outlook/systemstatuscsv.html> details.