Product Specification

Bounded Futures

ISO: CAISO

Name:
Bounded Futures on CAISO
(Hub: NP15, SP15; Price Ranges: Standard, Moderate or Extended)

Symbol:
BFUT[bounded price range upper band]-CAISO-[locational code]-[date as yy-mm-dd]-[hour of the day as hh]
For example, an extended price range, NP15 hub, July 1, 2026, 9am PT contract has the following symbol: BFUT2000-CAISO-HB_NP15-260701-09

Description:
An hourly cash settled Bounded Futures contract with a predefined floor and ceiling price range (3 variants available as defined below). Settlement will be the average real-time market price for the specified hour of contract expiration.

Instruments:
6 instruments available - 3 bounded price ranges across 2 CAISO wholesale hubs.

Standard: $0 to $100
Moderate: -$50 to $300
Extended: -$150 to $2000

Hub:
NP15, SP15

Listed Contracts:
Every hour for the next 5 consecutive calendar days (hours 1-24 per day; 120 contracts available for each instrument)

[Note: The hour represents the preceding 60 minutes. For example: hour 1 is 1am PT]

Contract Unit:

1 MegaWatt hour (MWh)

Price Quotation:

U.S. dollars and cents per MWh

Minimum Price Fluctuation (Tick Size):

$0.25 per MWh

Settlement Price:

The average of the four FMM Locational Marginal Prices* (LMPs) for the contract hour ending, for the specific pricing location, as published by CAISO every 15 minutes on their OASIS platform. A published FMM LMP record must satisfy both of the following criteria to be accepted for use in settlement calculation:

1. Aligned – The INTERVALSTARTTIME_GMT of the record lands exactly on a 15-minute boundary (:00, :15, :30, or :45 UTC). Off-axis rows (e.g., :01, :14) are treated as erroneous publications and are ignored.
2. Closed – The interval must be complete: Interval_Start + 15 minutes must be less than or equal to the current UTC timestamp. In-progress intervals are skipped until the interval closes.

Records failing either criterion are logged as an error and skipped. Where CAISO publishes a revision to a previously published eligible price, the exchange uses the first eligible publication only.

*FMM Locational Marginal Prices are published under Prices/Energy_Prices/FMM _Marginal_Prices at https://oasis.caiso.com/mrioasis/logon.do.

For example, the Settlement Price for the 1am PT contract is the average of the 4 fifteen minute periods that CAISO publishes for 12am-1am PT: 12.00-12.15, …, 12.45-01.00 am PT.

As each FMM LMP for the contract hour is published, the exchange ingests the record, validates eligibility, and stores the accepted price. Once all four eligible prices for the contract hour are received, the exchange computes the arithmetic average and records the settlement price.

Unpublished/Delayed CAISO Settlement Prices:

In the event that a required FMM LMP is not published at the expected time, the following rules apply. When a required FMM LMP for an interval has not been published by the end of the hour, the exchange:

1. Places the contract into Hold state.
2. Locks committed collateral.
3. Sends an Initial Hold Alert to the ElectronX Market Operations team identifying the contract, pricing location, and missing interval(s).

The exchange continues to monitor for publication of the missing price. If CAISO subsequently publishes a price that meets both eligibility criteria for the missing interval, the exchange accepts it (subject to the first-eligible-price rule) and resumes the settlement flow.

The maximum hold duration for CAISO is 24 hours from the contract's scheduled settlement time. If the missing price has not been published within this window, the exchange computes a proposed fallback settlement price. Total elapsed time from the scheduled settlement time to final settlement may extend up to 48 hours, comprising the 24-hour automated monitoring window plus up to 24 hours for operations review and disposition.

If a required FMM LMP remains unpublished at the end of the 24-hour suspension period, the exchange computes the proposed fallback settlement price using the most recently published eligible FMM LMP preceding the missing interval as a substitute for that interval’s price.

- Each missing interval is substituted independently.
- Consecutive missing intervals therefore share the same substitute value: the most recently published eligible FMM LMP that immediately precedes the first of the consecutive missing intervals.
- Once all four interval values are populated (via actual publication or fallback), the arithmetic average is computed and the proposed settlement price is routed through an internal approval process before being recorded as final.

If none of the four required FMM LMPs for a contract hour have been published within the 24-hour suspension period:

- The exchange uses the most recently published eligible FMM LMP from any prior interval at the same pricing location as the substitute for all four interval values.
- The proposed settlement price equals that single substitute value (average of four identical values).
- The proposed settlement is routed through the internal approval process with an elevated severity alert flagging full-hour substitution.

Settlement Method:
Financial

Termination of Trading:
Trading terminates at the end of each hour (contract remains closed until settlement).

Position Limits:
As specified by the exchange and available at https://www.electronx.com/regulatory.