California ISO

Price Correction Report
Week of April 6 – 10, 2020

Overview

This document is intended to meet the requirements of ISO Tariff section 35.6, and provides the Market Participants with a summary of all price corrections that occured during the week. For example, report titled with May 5-9, 2014 will cover all corrections made during the week of May 5-9. In a normal situation, it will include trade dates that have price corrections which are due between May 5-9, 2014 based on the five business day for Real-Time market and three business day for Day-Ahead market.

The structure of the report is as follows:

- Price correction listing – this section includes a listing of all the corrections, including market intervals affected, locations, reason (which would tie back to the description of issues section), and method of price correction.
- Description of Issues – this section describes each issue which resulted in a correction in more detail.
- Price-fill report – metrics on the number of empty price intervals that were filled by adjacent interval prices, usually due to failed runs.
- Disconnected Pnode replacement –a listing of Trade Days with replaced IFM Pnodes by interval.

For the week covered by this report, **83** intervals were corrected.

<u>The trade dates covered by this report are:</u>

DAM: 4/1/2020– 4/7/2020
RTM: 3/30/2020 – 4/5/2020

Correction methodologies
The following are the definitions of the correction methodologies used:

Selective recalculation: The CAISO will selectively recalculate incorrect financially binding prices when the invalid prices are isolated and can be corrected such that no other financially binding prices are affected by the correction.

System recalculation: The CAISO will recalculate all prices for the invalidated market interval using corrected or recreated input data, or repaired software as applicable.

Replacement: If the above correction methods are not applicable and practicable, the CAISO shall use, in place of prices for the binding interval of an invalidated market solution, replicated prices from binding or advisory intervals from the validated market solution in which the market conditions were most similar to the market conditions in the invalidated market solution for the affected interval.

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Price Correction Listing

The following is a list of the corrections made during the week, sorted by date and time. The number to the left of the reason field corresponds to the issue number in the Description of Issues section. The count of corrected Pnode/Apnode for each corrected interval is listed left to the Affected Location field. In case of many intervals with the same correction reason, instead of providing the exact count of corrected Pnode/Apnode, the range of Pnode/Apnode affected is provided and listed in another table. Please note that there are only flex ramp prices corrections or AS price corrections for those intervals that have the Count of Corrected Pnode/Apnode column missing.

Corrections made through selective recalculation: 56

Date	HE	Intervals	Market	#	Reason	Number of corrected Pnodes/Apnodes	Affected Area
03/31/2020	24	10	RTD	2	Data Input Error	1453	Local
03/31/2020	24	11	RTD	2	Data Input Error	1454	Local
03/31/2020	24	12	RTD	2	Data Input Error	1454	Local
04/01/2020	1	12	RTD	2	Data Input Error	1554	Local
04/01/2020	1	2,6,10	RTD	2	Data Input Error		Local
04/01/2020	1	3	RTD	2	Data Input Error	1568	Local
04/01/2020	1	4	RTD	2	Data Input Error	1542	Local
04/01/2020	1	5	RTD	2	Data Input Error	1552	Local
04/01/2020	1	7-8	RTD	2	Data Input Error	1510	Local
04/01/2020	1	9	RTD	2	Data Input Error	1555	Local
04/01/2020	2	8	RTD	2	Data Input Error		Local
04/01/2020	2-3	12	RTD	2	Data Input Error	723	Local
04/01/2020	5	1	RTD	2	Data Input Error	722	Local
04/01/2020	1	1	RTPD	2	Data Input Error	1443	Local
04/01/2020	1	3	RTPD	2	Data Input Error		Local
04/01/2020	9-10	1-4	RTPD	3	Software Defect		Local
04/06/2020	13,15-17,22-24	0	DA	3	Software Defect		Local
04/07/2020	1-19,22-24	0	DA	3	Software Defect		Local

Corrections made through interval replacement: 0

Corrections made through market rerun: 27

Date	HE	Intervals	Market	#	Reason	Affected Area
04/01/2020	12	1-8	RTD	1	Data Input Error	System
04/01/2020	13	1-2	RTD	1	Data Input Error	System
04/01/2020	14,18	2-3	RTD	1	Data Input Error	System
04/01/2020	11	4	RTPD	1	Data Input Error	System
04/01/2020	12	1,3-4	RTPD	1	Data Input Error	System
04/01/2020	13-14	1-4	RTPD	1	Data Input Error	System
04/01/2020	15	1	RTPD	1	Data Input Error	System

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Description of Issues:

1. **Data Input Error:**
   - Invalid market run due to a data input error impacting Default Energy Bids.

   Prices were corrected by market rerun.

2. **Data Input Error:**
   - Invalid prices due to a data input error impacting resource dispatch.

   Prices were corrected by selective recalculation.

3. **Software Defect:**
   - Invalid congestion on MALIN500_ISL due to a software issue impacting price formation.

   Prices were corrected by selective recalculation.

Price Fill Report

A price fill occurs whenever a market run failed to publish to the Settlement system. This usually occurs whenever a market run failed, for example when a market fails to come to a solution. It could also occur when an operator decides that a market is not to be run, for example during a contingency event. Automatic price fills also occur in real-time when an operator chooses to utilize the previous interval's solution for the current interval.

Prices are filled according to the rules in CAISO Tariff section 7.7.9 which states that administrative pricing applies to intervals where we have had a market disruption, and requires the prices to be set differently depending on the number of consective market distrputions.

The number of prices which were adjusted by the fill process is as follows.

Total number of filled price intervals: 4

Date	HE	Intervals	Market
03/30/2020	15	7	RTD
03/30/2020	15	8	RTD
03/30/2020	16	1	RTPD
03/31/2020	24	12	RTD

Note: Intervals filled are subject to subsequent price corrections where applicable.

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Disconnected Pnode Report

According to Congestion Revenue Rights BPM Section 15, when the IFM cannot identify an electrically connected PNODE within the fixed level of proximity, a post process will be performed to determine the next closest electrically connected PNode and replace the LMP of the disconnected PNode with this price. This price update will be done within the DAM price correction timeline.

The number of prices which were adjusted by the disconnected Pnode process is as follows.

Total number of hours with disconnected pnode price update: 0

Date	HE