

# Price Correction Report

## Week of March 20– March 24, 2023

### 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 occurred 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.

For the week covered by this report, **211** intervals were corrected.

The trade dates covered by this report are:

DAM: 3/15/2023 – 3/21/2023

RTM: 3/13/2023 – 3/19/2023

### ***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.

# Price Correction Report

## Week of March 20– March 24, 2023

### Price Correction Listing

The following is a list of the corrections made during the week, provided with 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/SP-Tie for each corrected interval is listed left to the Affected Location field, for Energy and FRP respectively. In case of many intervals with the same correction reason, instead of providing the exact count of corrected Pnode/APnode/SP-Tie, the range of Pnode/APnode/SP-Tie affected is provided and listed in another table. Please note that there are only AS price corrections or only constraint shadow price correction for those intervals that have the Count of Corrected Pnode/APnode/SP-Tie columns missing.

### Corrections made through selective recalculation: 187

Date	HE	Intervals	Market	#	Reason	Number of corrected Pnodes/APnodes/SP-Ties for Energy	Number of corrected Pnodes/APnodes/SP-Ties for Flex Ramp	Method	Affected Area
03/14/2023	23	3-4	RTD	4	Software Defect	1612		Selective Recalc	Local
03/14/2023	15	2-4	RTPD	2	Software Defect			Selective Recalc	Local
03/14/2023	23	1-2	RTPD	4	Software Defect	1612	1593	Selective Recalc	Local
03/14/2023	24	1	RTPD	4	Software Defect	1612	1593	Selective Recalc	Local
03/14/2023	24	2	RTPD	4	Software Defect	1612		Selective Recalc	Local
03/14/2023	24	3	RTPD	4	Software Defect	1678		Selective Recalc	Local
03/14/2023	7-10,12,16,18-21	1-4	RTPD	2	Software Defect			Selective Recalc	Local
03/14/2023	9	1	RTPD	3	Software Defect	11825		Selective Recalc	Local
03/14/2023	9	2	RTPD	3	Software Defect	11818		Selective Recalc	Local
03/15/2023	8	1	RTD	1	Data Input Error	15845		Selective Recalc	Local
03/15/2023	8	10	RTD	1	Data Input Error	15826		Selective Recalc	Local
03/15/2023	8	11	RTD	1	Data Input Error	15846		Selective Recalc	Local
03/15/2023	8	12	RTD	1	Data Input Error	15850		Selective Recalc	Local
03/15/2023	8	2	RTD	1	Data Input Error	15857		Selective Recalc	Local
03/15/2023	8	3	RTD	1	Data Input Error	15858		Selective Recalc	Local
03/15/2023	8	4-5	RTD	1	Data Input Error	15791		Selective Recalc	Local
03/15/2023	8	6	RTD	1	Data Input Error	15787		Selective Recalc	Local
03/15/2023	8	7-9	RTD	1	Data Input Error	15836		Selective Recalc	Local
03/15/2023	9	2,4-6	RTD	1	Data Input Error	15204		Selective Recalc	Local
03/15/2023	9	3	RTD	1	Data Input Error	15822		Selective Recalc	Local
03/15/2023	11	1,3	RTPD	4	Software Defect	1717		Selective Recalc	Local
03/15/2023	12	1	RTPD	4	Software Defect	1717		Selective Recalc	Local
03/15/2023	13	1-3	RTPD	4	Software Defect	1673		Selective Recalc	Local
03/15/2023	13	4	RTPD	4	Software Defect	1733		Selective Recalc	Local
03/15/2023	8	1	RTPD	1	Data Input Error	15829		Selective Recalc	Local
03/15/2023	8	2	RTPD	1	Data Input Error	15786		Selective Recalc	Local
03/15/2023	8	3	RTPD	1	Data Input Error	15740		Selective Recalc	Local
03/15/2023	8	4	RTPD	1	Data Input Error	15835		Selective Recalc	Local
03/15/2023	9	1	RTPD	4	Software Defect	2764		Selective Recalc	Local
03/15/2023	9	2	RTPD	1	Data Input Error	15442		Selective Recalc	Local
03/15/2023	9	3	RTPD	1	Data Input Error	15392		Selective Recalc	Local

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03/17/2023	6	10-11	RTD	4	Software Defect	1613		Selective Recalc	Local
03/17/2023	1,5	1-4	RTPD	4	Software Defect	1613		Selective Recalc	Local
03/17/2023	10	1	RTPD	4	Software Defect	2780		Selective Recalc	Local
03/17/2023	11	4	RTPD	4	Software Defect	6059		Selective Recalc	Local
03/17/2023	12	3	RTPD	4	Software Defect	5076		Selective Recalc	Local
03/17/2023	12	4	RTPD	4	Software Defect	5076	1	Selective Recalc	Local
03/17/2023	13	1	RTPD	4	Software Defect	4124		Selective Recalc	Local
03/17/2023	13	2	RTPD	4	Software Defect	5076		Selective Recalc	Local
03/17/2023	13	3	RTPD	4	Software Defect	4673		Selective Recalc	Local
03/17/2023	13-14	4	RTPD	4	Software Defect	4646		Selective Recalc	Local
03/17/2023	14	1-3	RTPD	4	Software Defect	4097		Selective Recalc	Local
03/17/2023	15	1-3	RTPD	4	Software Defect	4646		Selective Recalc	Local
03/17/2023	17	1	RTPD	4	Software Defect	4646		Selective Recalc	Local
03/17/2023	21	1	RTPD	4	Software Defect	3765		Selective Recalc	Local
03/17/2023	21	4	RTPD	4	Software Defect	3705		Selective Recalc	Local
03/17/2023	6	3	RTPD	4	Software Defect	1613		Selective Recalc	Local
03/17/2023	6	4	RTPD	4	Software Defect	1613	1594	Selective Recalc	Local
03/17/2023	7	1	RTPD	4	Software Defect	2764		Selective Recalc	Local
03/17/2023	8	1	RTPD	4	Software Defect	2718		Selective Recalc	Local
03/17/2023	8	2	RTPD	4	Software Defect	3781		Selective Recalc	Local
03/17/2023	8	4	RTPD	4	Software Defect	3130		Selective Recalc	Local
03/17/2023	9	1	RTPD	4	Software Defect	1613		Selective Recalc	Local
03/17/2023	9	2	RTPD	4	Software Defect	1717		Selective Recalc	Local
03/17/2023	9	3	RTPD	4	Software Defect	2780		Selective Recalc	Local
03/17/2023	9	4	RTPD	4	Software Defect	2764		Selective Recalc	Local
03/17/2023	8,23-24	0	RUC	5	Software Defect			Selective Recalc	Local
03/18/2023	21	4-12	RTD	4	Software Defect		1594	Selective Recalc	Local
03/18/2023	1	1-3	RTPD	4	Software Defect	3705		Selective Recalc	Local
03/18/2023	19	3	RTPD	4	Software Defect	1699		Selective Recalc	Local
03/18/2023	21	1	RTPD	4	Software Defect	1613		Selective Recalc	Local
03/18/2023	21	2-4	RTPD	4	Software Defect	1613	1594	Selective Recalc	Local
03/18/2023	22	1	RTPD	4	Software Defect	2746		Selective Recalc	Local
03/18/2023	22	2	RTPD	4	Software Defect	2746	1594	Selective Recalc	Local
03/18/2023	23	1-2	RTPD	4	Software Defect	3190		Selective Recalc	Local
03/18/2023	23	3-4	RTPD	4	Software Defect	3206		Selective Recalc	Local
03/18/2023	24	1-2,4	RTPD	4	Software Defect	3190		Selective Recalc	Local
03/18/2023	24	3	RTPD	4	Software Defect	3206		Selective Recalc	Local
03/18/2023	8	1	RTPD	4	Software Defect	3705		Selective Recalc	Local
03/18/2023	8	4	RTPD	4	Software Defect	3190		Selective Recalc	Local
03/18/2023	9	1-2	RTPD	4	Software Defect	2780		Selective Recalc	Local
03/18/2023	9	3	RTPD	4	Software Defect	2862		Selective Recalc	Local
03/18/2023	9	4	RTPD	4	Software Defect	2846		Selective Recalc	Local
03/19/2023	11	1	RTPD	4	Software Defect	1717		Selective Recalc	Local
03/19/2023	11	2-3	RTPD	4	Software Defect	1774		Selective Recalc	Local
03/19/2023	11	4	RTPD	4	Software Defect	3796		Selective Recalc	Local
03/19/2023	12	1-3	RTPD	4	Software Defect	1673		Selective Recalc	Local
03/19/2023	12	4	RTPD	4	Software Defect	1613		Selective Recalc	Local
03/19/2023	17	3-4	RTPD	4	Software Defect	1673		Selective Recalc	Local
03/19/2023	18	2	RTPD	4	Software Defect	3781		Selective Recalc	Local
03/19/2023	19	1-4	RTPD	4	Software Defect	1613		Selective Recalc	Local
03/19/2023	21	1	RTPD	4	Software Defect	3705	1594	Selective Recalc	Local
03/19/2023	22	1	RTPD	4	Software Defect		1594	Selective Recalc	Local
03/19/2023	23	1-2	RTPD	4	Software Defect	2720		Selective Recalc	Local
03/19/2023	23	3-4	RTPD	4	Software Defect	2764		Selective Recalc	Local
03/19/2023	24	1,3	RTPD	4	Software Defect	2764		Selective Recalc	Local
03/19/2023	24	2	RTPD	4	Software Defect	2780		Selective Recalc	Local
03/19/2023	6	2,4	RTPD	4	Software Defect	2764		Selective Recalc	Local

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03/19/2023	6	3	RTPD	4	Software Defect	2780		Selective Recalc	Local
03/19/2023	8	1-2	RTPD	4	Software Defect	6059		Selective Recalc	Local
03/19/2023	8	3	RTPD	4	Software Defect	6075		Selective Recalc	Local
03/19/2023	8	4	RTPD	4	Software Defect	3272		Selective Recalc	Local
03/19/2023	9	1	RTPD	4	Software Defect	6059		Selective Recalc	Local

**Corrections made through interval replacement: 0**

**Corrections made through market rerun: 24**

Date	HE	Intervals	Market	#	Reason	Method	Affected Area
03/17/2023	1-24	0	DA	5	Software Defect	Market Rerun	System

### Description of Issues:

**1. Data Input Error:**

Invalid congestion on 24086\_LUGO \_500\_26105\_VICTORVL\_500\_BR\_1 \_1 due to a data input error impacting network model.

Prices were corrected by selective recalculation.

**2. Software Defect:**

Invalid A/S prices due to a software defect impact A/S requirements.

Prices were corrected by selective recalculation.

**3. Software Defect:**

Invalid congestion on MCC\_VIC 2 due to a data input error impacting network model.

Prices were corrected by selective recalculation.

**4. Software Defect:**

Invalid prices due to a software defect impacting resource awards.

Prices were corrected by selective recalculation.

**5. Software Defect:**

Invalid prices due to a software defect impacting resource minimum load cost for the resources with zero minimum load.

Prices were corrected by selective recalculation or market rerun

# Price Correction Report

## Week of March 20– March 24, 2023

### 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 consecutive market disruptions.

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

#### Total number of filled price intervals for energy, AS and GHG: 12

Date	HE	Intervals	Market
03/14/2023	24	11	RTD
03/14/2023	24	12	RTD
03/15/2023	1	1	RTPD
03/16/2023	15	7	RTD
03/16/2023	15	8	RTD
03/16/2023	15	9	RTD
03/16/2023	15	10	RTD
03/16/2023	15	11	RTD
03/16/2023	15	12	RTD
03/16/2023	16	1	RTD
03/16/2023	16	1	RTPD
03/16/2023	16	2	RTPD

#### Total number of filled price intervals for FRP: 12

Date	HE	Intervals	Market
03/14/2023	24	12	RTD
03/15/2023	1	1	RTD
03/15/2023	1	2	RTPD
03/16/2023	15	8	RTD
03/16/2023	15	9	RTD
03/16/2023	15	10	RTD
03/16/2023	15	11	RTD
03/16/2023	15	12	RTD
03/16/2023	16	1	RTD
03/16/2023	16	2	RTD
03/16/2023	16	2	RTPD
03/16/2023	16	3	RTPD

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

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## Week of March 20– March 24, 2023

### 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**