

California ISO Readiness Notes

Title: Resource Sufficiency Evaluation Enhancements Phase 1 Patch 15 Updates

Expected Production Date: In Production June 16, 2022 for Effective Trade Date of June 17, 2022

Link to associated training documents (if applicable):

- RSEE training presentation in the WEIM Portal under Training/Readiness tab > Individual Courses: <https://weim.caiso.com/TrainingDocuments/Individual-EIM-Courses/WEIM-RSEE-Phase-1-Presentation-Notes-May-2022.pdf>

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

TCR(s) or Project Associated: RSEE Phase 1

Details: The following changes will be effective as of Thursday, June 16 at 2:35 PM PPT:

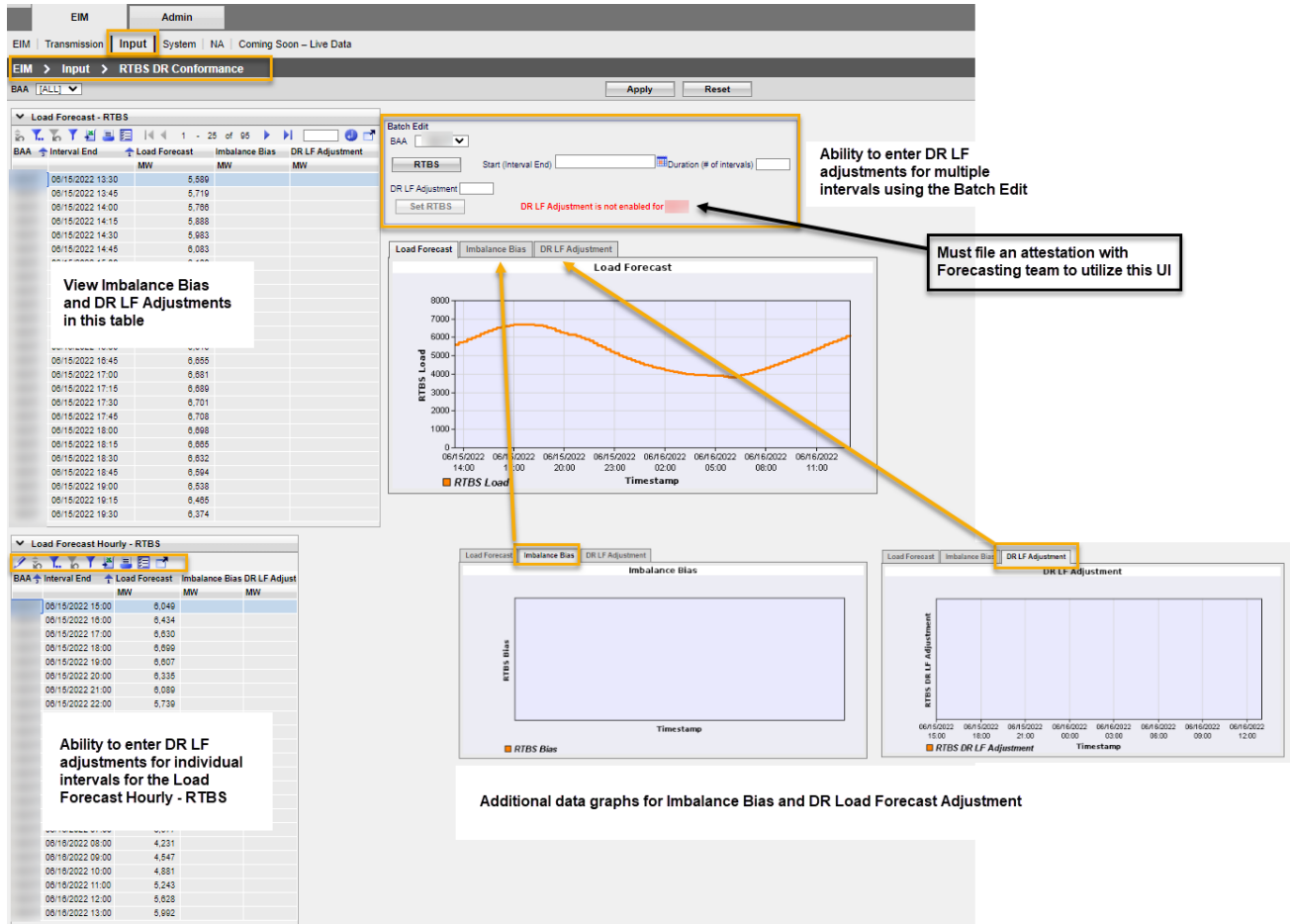
- New BAAOP UI – DR LF Conformance
- Updated BAAOP UIs:
 - Bid Range Capacity Test
 - Flex Ramp Sufficiency Test
- New UI in CMRI – *Resource Bid Range Capacity* Report
- New UI in OASIS – *WEIM RSE Capacity Tests* Report
- Updated UI in OASIS – *Flex Ramp Requirements Inputs and Outputs (WEIM RSE Flexible Ramping Tests)* Report

The updates reflected on the following pages of this document will be deployed in Production in the respective applications (BAAOP, CMRI and OASIS) on June 16 at 2:35pm PPT.

The following changes will be reflected in the Balancing Authority Area Operations Portal (BAAOP) Production environment as of Thursday, June 16, 2022.

NEW BAAOP USER INTERFACE: RTBS DR Conformance

This new UI will be found under the Input tab, and provides both data views and the capability to enter load forecast adjustments to account for demand response (DR).



View Imbalance Bias and DR LF Adjustments in this table

Interval End	MW	MW	MW
06/15/2022 13:30	5.599		
06/15/2022 13:45	5.710		
06/15/2022 14:00	5.796		
06/15/2022 14:15	5.888		
06/15/2022 14:30	5.983		
06/15/2022 14:45	6.083		
06/15/2022 18:00	6.885		
06/15/2022 18:15	6.881		
06/15/2022 17:00	6.881		
06/15/2022 17:15	6.889		
06/15/2022 17:30	6.701		
06/15/2022 17:45	6.708		
06/15/2022 18:00	6.898		
06/15/2022 18:15	6.895		
06/15/2022 18:30	6.832		
06/15/2022 18:45	6.594		
06/15/2022 19:00	6.538		
06/15/2022 19:15	6.485		
06/15/2022 19:30	6.374		

Ability to enter DR LF adjustments for multiple intervals using the Batch Edit

Must file an attestation with Forecasting team to utilize this UI

Ability to enter DR LF adjustments for individual intervals for the Load Forecast Hourly - RTBS

Interval End	MW	MW	MW
06/15/2022 15:00	6.049		
06/15/2022 15:00	6.434		
06/15/2022 17:00	6.830		
06/15/2022 18:00	6.899		
06/15/2022 19:00	6.607		
06/15/2022 20:00	6.335		
06/15/2022 21:00	6.089		
06/15/2022 22:00	5.739		
06/15/2022 08:00	4.231		
06/15/2022 09:00	4.547		
06/15/2022 10:00	4.881		
06/15/2022 11:00	5.243		
06/15/2022 12:00	5.628		
06/15/2022 13:00	5.992		

Additional data graphs for Imbalance Bias and DR Load Forecast Adjustment

WEIM's have a new UI to manually input non-market Demand Response into the RTBS calculations if they do not submit it through the Short-Term Forecast (STF) team's process. It will not accept or utilize inputs for CAISO or any WEIM who has not signed the attestation for its use. For CAISO it will always read, "DR LF Adjustments are not enabled for CISO."

It is important to note that in order to use this UI, an attestation must be sent to the ISO Short Term Forecast team. To submit this information, please use the following process:

EIM Entity to provide Short Term Forecasting with DR schedules. Short Term Forecasting to evaluate if implementing DR schedules or model changes are needed to assist with accuracy of model performance.

Communication to ISO

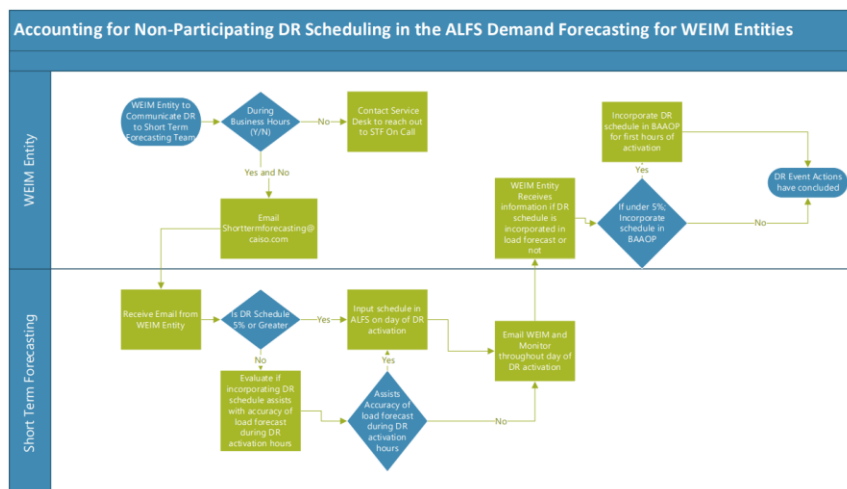
- Email Notification to shorttermforecasting@caiso.com
 - During business hours (07:00-16:00 PPT), send email notification to shorttermforecasting@caiso.com
 - During non-business hours, contact Service Desk and ask for Forecasting on Call

- Timeline Of Notification:
 - One Day Prior
 - Updated information when schedules change

Evaluation of Demand Response

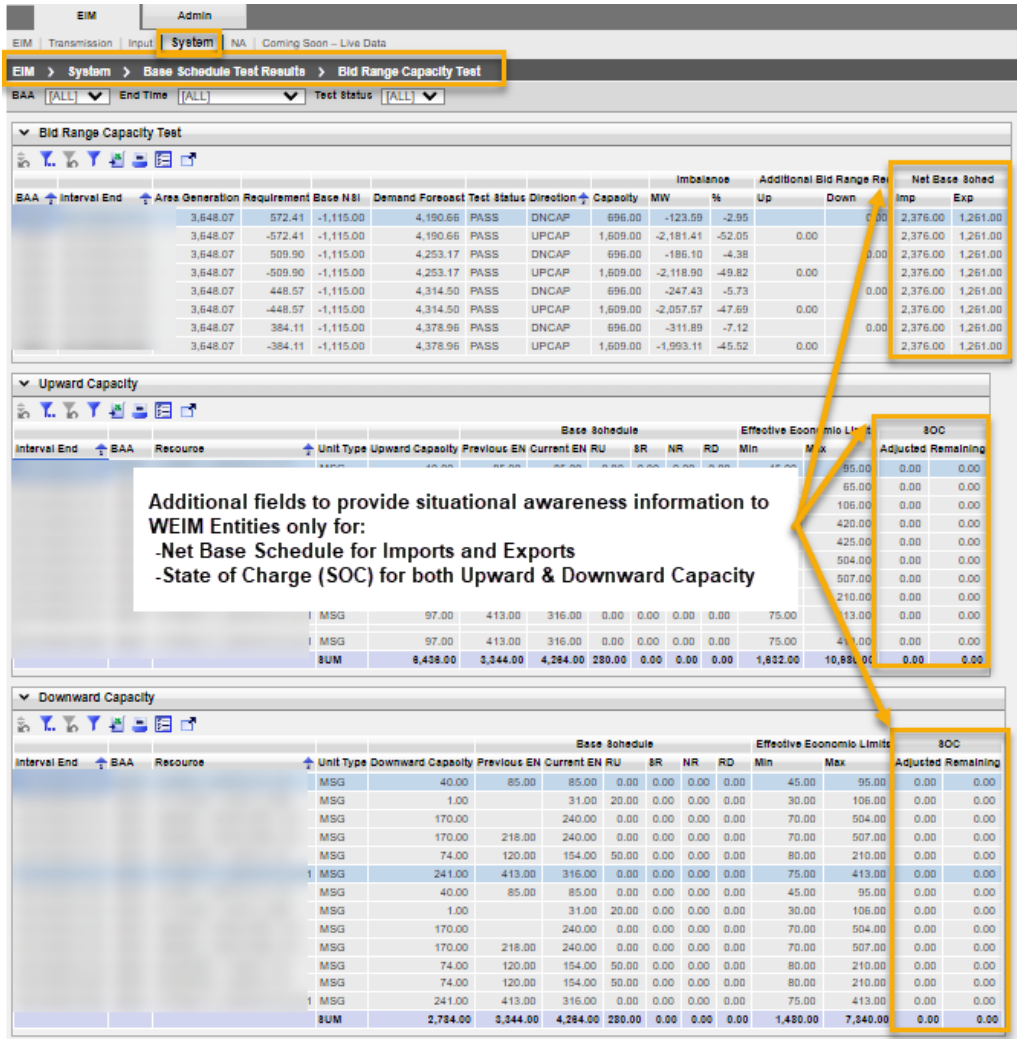
1. Receive email notification from EIM entity of Demand Response
2. Look at the MWs being scheduled in comparison of percentage of demand
3. If schedule DR is 5% or greater
 - Input schedule in ALFS on Day of DR Activation
 - Email EIM entity
 - Monitor throughout the day
4. If scheduled DR is less than 5%
 - Short Term Forecasting to evaluate if implementing DR schedules or model changes are needed to assist with accuracy of model performance during DR activation hours
 - Email EIM entity
 - Monitor throughout the day

For more information related to accounting for DR, review the following presentation posted in the WEIM Portal: [WEIM Bi-Weekly Ops Meeting April 2022 Load Forecasting with Demand Response Data.pdf](#)



UPDATED BAAOP USER INTERFACE: Bid Range Capacity Test

UI moving out of Coming Soon. Path is EIM > System > Base Schedule Test Results > Bid Range Capacity Test



Additional fields to provide situational awareness information to WEIM Entities only for:

- Net Base Charge for Imports and Exports
- State of Charge (SOC) for both Upward & Downward Capacity

The screenshot displays the following data tables:

Bid Range Capacity Test															
BAA	Interval End	Area	Generation Requirement	Base NSI	Demand Forecast	Test Status	Direction	Capacity	MW	%	Imbalance	Additional Bid Range Re	Net Base Sched		
												Up	Down	Imp	Exp
	3,648.07		572.41	-1,115.00	4,190.66	PASS	DNCAP	696.00	-123.59	-2.95			0.00	2,376.00	1,261.00
	3,648.07		-572.41	-1,115.00	4,190.66	PASS	UPCAP	1,609.00	-2,181.41	-52.05		0.00	0.00	2,376.00	1,261.00
	3,648.07		509.90	-1,115.00	4,253.17	PASS	DNCAP	696.00	-186.10	-4.38			0.00	2,376.00	1,261.00
	3,648.07		-509.90	-1,115.00	4,253.17	PASS	UPCAP	1,609.00	-2,118.90	-49.82		0.00	0.00	2,376.00	1,261.00
	3,648.07		448.57	-1,115.00	4,314.50	PASS	DNCAP	696.00	-247.43	-5.73			0.00	2,376.00	1,261.00
	3,648.07		-448.57	-1,115.00	4,314.50	PASS	UPCAP	1,609.00	-2,057.57	-47.69		0.00	0.00	2,376.00	1,261.00
	3,648.07		384.11	-1,115.00	4,378.96	PASS	DNCAP	696.00	-311.89	-7.12			0.00	2,376.00	1,261.00
	3,648.07		-384.11	-1,115.00	4,378.96	PASS	UPCAP	1,609.00	-1,993.11	-45.52		0.00	0.00	2,376.00	1,261.00

Upward Capacity														
Interval End	BAA	Resource	Unit Type	Upward Capacity	Previous EN	Current EN	RU	BR	NR	RD	Min	Max	SOC	
													Adjusted	Remaining
			MSG	95.00	85.00	85.00	0.00	0.00	0.00	0.00	45.00	95.00	0.00	0.00
			MSG	65.00	31.00	20.00	0.00	0.00	0.00	0.00	30.00	106.00	0.00	0.00
			MSG	106.00	240.00	0.00	0.00	0.00	0.00	0.00	70.00	504.00	0.00	0.00
			MSG	425.00	218.00	240.00	0.00	0.00	0.00	0.00	70.00	507.00	0.00	0.00
			MSG	504.00	120.00	154.00	50.00	0.00	0.00	0.00	80.00	210.00	0.00	0.00
			MSG	507.00	74.00	120.00	154.00	50.00	0.00	0.00	80.00	210.00	0.00	0.00
			MSG	210.00	241.00	413.00	316.00	0.00	0.00	0.00	75.00	413.00	0.00	0.00
			MSG	113.00	40.00	85.00	85.00	0.00	0.00	0.00	45.00	95.00	0.00	0.00
			MSG	97.00	1.00	31.00	20.00	0.00	0.00	0.00	30.00	106.00	0.00	0.00
			MSG	97.00	170.00	240.00	0.00	0.00	0.00	0.00	70.00	504.00	0.00	0.00
			MSG	97.00	170.00	218.00	240.00	0.00	0.00	0.00	70.00	507.00	0.00	0.00
			MSG	97.00	74.00	120.00	154.00	50.00	0.00	0.00	80.00	210.00	0.00	0.00
			MSG	97.00	241.00	413.00	316.00	0.00	0.00	0.00	75.00	413.00	0.00	0.00
			MSG	97.00	40.00	85.00	85.00	0.00	0.00	0.00	45.00	95.00	0.00	0.00
			MSG	97.00	1.00	31.00	20.00	0.00	0.00	0.00	30.00	106.00	0.00	0.00
			MSG	97.00	170.00	240.00	0.00	0.00	0.00	0.00	70.00	504.00	0.00	0.00
			MSG	97.00	170.00	218.00	240.00	0.00	0.00	0.00	70.00	507.00	0.00	0.00
			MSG	97.00	74.00	120.00	154.00	50.00	0.00	0.00	80.00	210.00	0.00	0.00
			MSG	97.00	241.00	413.00	316.00	0.00	0.00	0.00	75.00	413.00	0.00	0.00
			MSG	97.00	40.00	85.00	85.00	0.00	0.00	0.00	45.00	95.00	0.00	0.00
			MSG	97.00	1.00	31.00	20.00	0.00	0.00	0.00	30.00	106.00	0.00	0.00
			MSG	97.00	170.00	240.00	0.00	0.00	0.00	0.00	70.00	504.00	0.00	0.00
			MSG	97.00	170.00	218.00	240.00	0.00	0.00	0.00	70.00	507.00	0.00	0.00
			MSG	97.00	74.00	120.00	154.00	50.00	0.00	0.00	80.00	210.00	0.00	0.00
			MSG	97.00	241.00	413.00	316.00	0.00	0.00	0.00	75.00	413.00	0.00	0.00
			MSG	97.00	40.00	85.00	85.00	0.00	0.00	0.00	45.00	95.00	0.00	0.00
			MSG	97.00	1.00	31.00	20.00	0.00	0.00	0.00	30.00	106.00	0.00	0.00
			MSG	97.00	170.00	240.00	0.00	0.00	0.00	0.00	70.00	504.00	0.00	0.00
			MSG	97.00	170.00	218.00	240.00	0.00	0.00	0.00	70.00	507.00	0.00	0.00
			MSG	97.00	74.00	120.00	154.00	50.00	0.00	0.00	80.00	210.00	0.00	0.00
			MSG	97.00	241.00	413.00	316.00	0.00	0.00	0.00	75.00	413.00	0.00	0.00
			MSG	97.00	40.00	85.00	85.00	0.00	0.00	0.00	45.00	95.00	0.00	0.00
			MSG	97.00	1.00	31.00	20.00	0.00	0.00	0.00	30.00	106.00	0.00	0.00
			MSG	97.00	170.00	240.00	0.00	0.00	0.00	0.00	70.00	504.00	0.00	0.00
			MSG	97.00	170.00	218.00	240.00	0.00	0.00	0.00	70.00	507.00	0.00	0.00
			MSG	97.00	74.00	120.00	154.00	50.00	0.00	0.00	80.00	210.00	0.00	0.00
			MSG	97.00	241.00	413.00	316.00	0.00	0.00	0.00	75.00	413.00	0.00	0.00
			MSG	97.00	40.00	85.00	85.00	0.00	0.00	0.00	45.00	95.00	0.00	0.00
			MSG	97.00	1.00	31.00	20.00	0.00	0.00	0.00	30.00	106.00	0.00	0.00
			MSG	97.00	170.00	240.00	0.00	0.00	0.00	0.00	70.00	504.00	0.00	0.00
			MSG	97.00	170.00	218.00	240.00	0.00	0.00	0.00	70.00	507.00	0.00	0.00
			MSG	97.00	74.00	120.00	154.00	50.00	0.00	0.00	80.00	210.00	0.00	0.00
			MSG	97.00	241.00	413.00	316.00	0.00	0.00	0.00	75.00	413.00	0.00	0.00
			MSG	97.00	40.00	85.00	85.00	0.00	0.00	0.00	45.00	95.00	0.00	0.00
			MSG	97.00	1.00	31.00	20.00	0.00	0.00	0.00	30.00	106.00	0.00	0.00
			MSG	97.00	170.00	240.00	0.00	0.00	0.00	0.00	70.00	504.00	0.00	0.00
			MSG	97.00	170.00	218.00	240.00	0.00	0.00	0.00	70.00	507.00	0.00	0.00
			MSG	97.00	74.00	120.00	154.00	50.00	0.00	0.00	80.00	210.00	0.00	0.00
			MSG	97.00	241.00	413.00	316.00	0.00	0.00	0.00	75.00	413.00	0.00	0.00
			MSG	97.00	40.00	85.00	85.00	0.00	0.00	0.00	45.00	95.00	0.00	0.00
			MSG	97.00	1.00	31.00	20.00	0.00	0.00	0.00	30.00	106.00	0.00	0.00
			MSG	97.00	170.00	240.00	0.00	0.00	0.00	0.00	70.00	504.00	0.00	0.00
			MSG	97.00	170.00	218.00	240.00	0.00	0.00	0.00	70.00	507.00	0.00	0.00
			MSG	97.00	74.00	120.00	154.00	50.00	0.00	0.00	80.00	210.00	0.00	0.00
			MSG	97.00	241.00	413.00	316.00	0.00	0.00	0.00	75.00	413.00	0.00	0.00
			MSG	97.00	40.00	85.00	85.00	0.00	0.00	0.00	45.00	95.00	0.00	0.00
			MSG	97.00	1.00	31.00	20.00	0.00	0.00	0.00	30.00	106.00	0.00	0.00
			MSG	97.00	170.00	240.00	0.00	0.00	0.00	0.00	70.00	504.00	0.00	0.00
			MSG	97.00	170.00	218.00	240.00	0.00	0.00	0.00	70.00	507.00	0.00	0.00
			MSG	97.00	74.00	120.00	154.00	50.00	0.00	0.00	80.00	210.00	0.00	0.00
			MSG	97.00	241.00	413.00	316.00	0.00	0.00	0.00	75.00	413.00	0.00	0.00
			MSG	97.00	40.00	85.00	85.00	0.00	0.00	0.00	45.00	95.00	0.00	0.00
			MSG	97.00	1.00	31.00	20.00	0.00	0.00	0.00	30.00	106.00	0.00	0.00
			MSG	97.00	170.00	240.00	0.00	0.00	0.00	0.00	70.00	504.00	0.00	0.00
			MSG	97.00	170.00	218.00	240.00	0.00	0.00	0.00	70.00	507.00	0.00	0.00
			MSG	97.00	74.00	120.00	154.00	50.00	0.00	0.00	80.00	210.00	0.00	0.00
			MSG	97.00	241.00	413.00	316.00	0.00	0.00	0.00	75.00	413.00	0.00	0.00
			MSG	97.00	40.00	85.00	85.00	0.00	0.00	0.00	45.00	95.00	0.00	0.00
			MSG	97.00	1.00	31.00	20.00	0.00	0.00	0.00	30.00	106.00	0.00	0.00

UPDATED BAAOP USER INTERFACE: Flex Ramp Sufficiency Test

UI moving out of Coming Soon. Path is EIM > System > Base Schedule Test Results > Flex Ramp Sufficiency Test

EIM | Transmission | Input | **System** | NA | Coming Soon – Live Data

EIM > System > Base Schedule Test Results > Flex Ramp Sufficiency Test

BAA

Flex Ramp Up

BAA	Interval End	Ramp Type	FRUR	Capacity	Shortage	Test Status
	06/16/2022 08:15	UP	-150.08	554.39	-704.47	PASS
	06/16/2022 08:30	UP	-81.29	650.98	-732.27	PASS
	06/16/2022 08:45	UP	-17.12	1,138.90	-1,156.02	PASS
	06/16/2022 09:00	UP	53.83	1,752.51	-1,698.69	PASS

Flex Ramp Down

BAA	Interval End	Ramp Type	FRDR	Capacity	Shortage	Test Status
	06/16/2022 08:15	DN	7.88	22.26	-14.38	PASS
	06/16/2022 08:30	DN	-60.91	-52.53	-8.37	PASS
	06/16/2022 08:45	DN	-125.08	-331.05	205.97	FAIL
	06/16/2022 09:00	DN	-196.02	-356.51	160.49	FAIL

Requirement Calculation Up

BAA	Test Type	Interval End	Ramp Type	Forecast Up Delta	Uncertainty Up	Net Import Capability	DB Scaled Uncertainty	Credit Up	PBC Under Gen	FRUR
1	UP	06/16/2022 08:15	UP	84.65	+ Max(136.00 -	1,000,252.52	48.79	- 283.52	0.00	-150.08
2	UP	06/16/2022 08:30	UP	153.44	+ Max(136.00 -	1,000,252.52	48.79	- 283.52	0.00	-81.29
3	UP	06/16/2022 08:45	UP	217.61	+ Max(136.00 -	1,000,252.52	48.79	- 283.52	0.00	-17.12
4	UP	06/16/2022 09:00	UP	288.56	+ Max(136.00 -	1,000,252.52	48.79	- 283.52	0.00	53.83

Requirement Calculation Dn

BAA	Test Type	Interval End	Ramp Type	Forecast Dn Delta	Uncertainty Dn	Net Export Capability	DB Scaled Uncertainty	Credit Dn	PBC Under Gen	FRDR
1	DN	06/16/2022 08:15	DN	-84.65	+ Max(188.00 -	999,727.48	92.53	- 0.00	0.00	7.88
2	DN	06/16/2022 08:30	DN	-153.44	+ Max(188.00 -	999,727.48	92.53	- 0.00	0.00	-60.91
3	DN	06/16/2022 08:45	DN	-217.61	+ Max(188.00 -	999,727.48	92.53	- 0.00	0.00	-125.08
4	DN	06/16/2022 09:00	DN	-288.56	+ Max(188.00 -	999,727.48	92.53	- 0.00	0.00	-196.02

Calculation Details Up

Test Type	Uncertainty Up	Diversity Benefit Calc			Forecast			Transfer Credits						
		Total UC Up	Total UC	EIM DB Factor Up	Prev Forecast	Forecast	Delta Up	Import Transfer Limit	EIM Transfer Base	Transfer Net Imp	Capability Credit up			
1	136.00	3,905.00	1,401.00	0.36	48.79	87.21	4,391.04	4,475.69	84.65	999,990.00	262.52	-739.00	1,000,252.52	283.52
2	136.00	3,905.00	1,401.00	0.36	48.79	87.21	4,391.04	4,544.48	153.44	999,990.00	262.52	-739.00	1,000,252.52	283.52
3	136.00	3,905.00	1,401.00	0.36	48.79	87.21	4,391.04	4,608.65	217.61	999,990.00	262.52	-739.00	1,000,252.52	283.52
4	136.00	3,905.00	1,401.00	0.36	48.79	87.21	4,391.04	4,679.60	288.56	999,990.00	262.52	-739.00	1,000,252.52	283.52

Calculation Details Dn

Test Type	Uncertainty Dn	Diversity Benefit Calc			Forecast			Transfer Credits						
		Total UC Dn	Total UC	EIM DB Factor Dn	Prev Forecast	Forecast	Delta Dn	Export Transfer Limit	EIM Transfer Base	Transfer Net Exp	Capability Credit Dn			
1	188.00	3,143.00	1,547.00	0.49	92.53	95.47	4,391.04	4,475.69	-84.65	999,990.00	262.52	-739.00	999,727.48	0.00
2	188.00	3,143.00	1,547.00	0.49	92.53	95.47	4,391.04	4,544.48	-153.44	999,990.00	262.52	-739.00	999,727.48	0.00
3	188.00	3,143.00	1,547.00	0.49	92.53	95.47	4,391.04	4,608.65	-217.61	999,990.00	262.52	-739.00	999,727.48	0.00
4	188.00	3,143.00	1,547.00	0.49	92.53	95.47	4,391.04	4,679.60	-288.56	999,990.00	262.52	-739.00	999,727.48	0.00

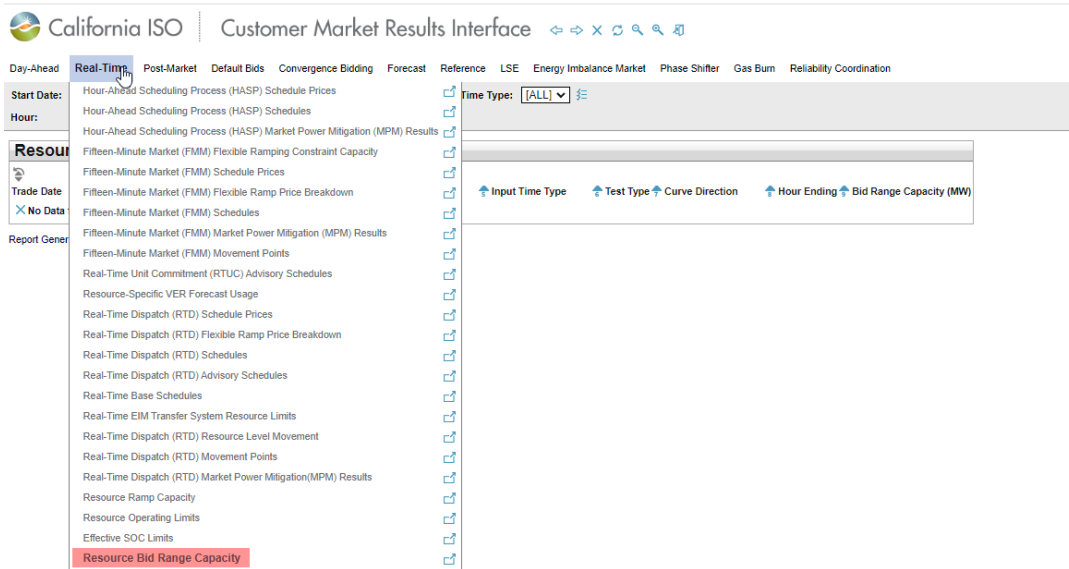
Additional fields to provide Power Balance Constraint (PBC) Under Generation for both the Flex Ramp Sufficiency Test Requirement Calculation Up and Down

The following changes will be reflected in the Customer Market Results Interface (CMRI) Production environment (UI and API) as of Thursday, June 16, 2022. This report will start publishing data for trade date June 17, a few hours prior to midnight.

NEW CMRI REPORT

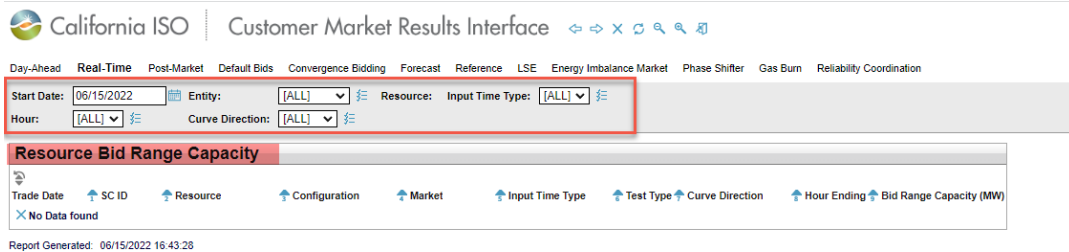
CMRI Resource Bid Range Capacity Report

Found under the Real-Time tab.



The screenshot shows the California ISO Customer Market Results Interface. The 'Real-Time' tab is selected in the top navigation bar. On the left, a sidebar menu lists various reports, with 'Resource Bid Range Capacity' highlighted in red. The main content area displays the report title 'Resource Bid Range Capacity' and several interactive filters: 'Input Time Type', 'Test Type', 'Curve Direction', 'Hour Ending', and 'Bid Range Capacity (MW)'. The 'Time Type' dropdown is set to 'ALL'.

Provides bid curve direction information that is considered as part of the WEIM Resource Sufficiency Evaluation Bid Range Capacity test.



This screenshot shows the same interface as above, but with the search filters highlighted by a red box. The filters include: 'Start Date' (06/15/2022), 'Entity' (ALL), 'Resource' (Input Time Type: ALL), 'Hour' (ALL), and 'Curve Direction' (ALL). Below the filters, the report title 'Resource Bid Range Capacity' is visible, along with additional filters: 'Trade Date', 'SC ID', 'Resource', 'Configuration', 'Market', 'Input Time Type', 'Test Type', 'Curve Direction', 'Hour Ending', and 'Bid Range Capacity (MW)'. A 'No Data found' message is displayed below the filters. The report generation timestamp is '06/15/2022 16:43:28'.

The following changes will be reflected in the Open Access Same-Time Information System (OASIS) Production environment (UI and API) as of Thursday, June 16, 2022. These reports will start publishing data for trade date June 17, a few hours prior to midnight.

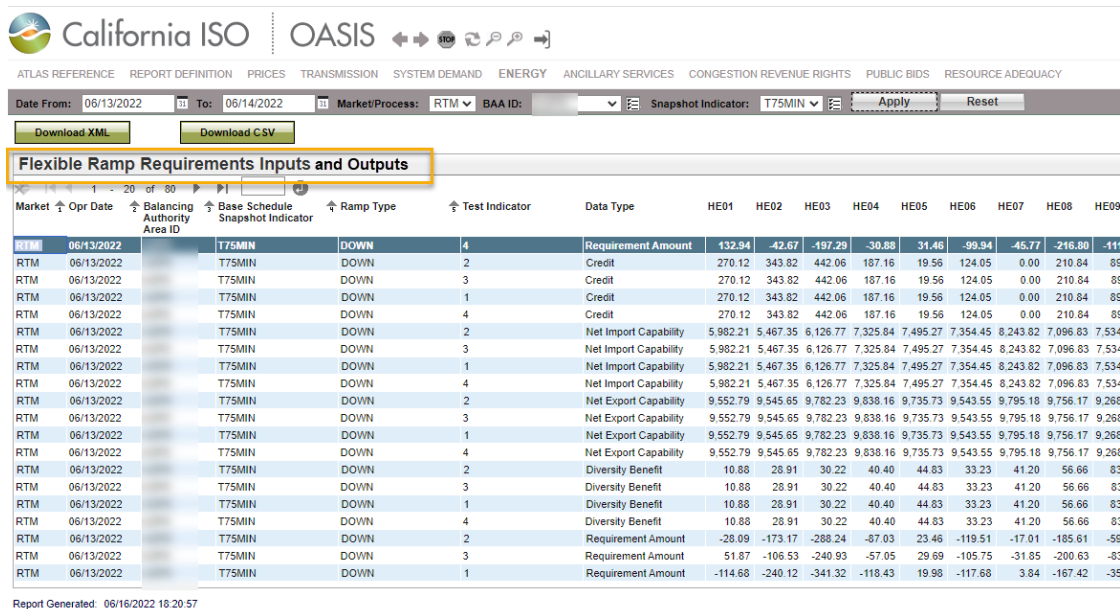
NEW OASIS REPORT

OASIS WEIM RSE Capacity Tests Report

(Screen shot to be added)

ENHANCED REPORT

OASIS Flex Ramp Requirements Inputs and Outputs (WEIM RSE Flexible Ramping Tests) Report



Market	Op Date	Balancing Authority Area ID	Base Schedule Snapshot Indicator	Ramp Type	Test Indicator	Data Type	HE01	HE02	HE03	HE04	HE05	HE06	HE07	HE08	HE09
RTM	06/13/2022		T75MIN	DOWN	4	Requirement Amount	132.94	-42.67	-197.29	-30.88	31.46	-99.94	-45.77	-216.80	-111
RTM	06/13/2022		T75MIN	DOWN	2	Credit	270.12	343.82	442.06	187.16	19.56	124.05	0.00	210.84	89
RTM	06/13/2022		T75MIN	DOWN	3	Credit	270.12	343.82	442.06	187.16	19.56	124.05	0.00	210.84	89
RTM	06/13/2022		T75MIN	DOWN	1	Credit	270.12	343.82	442.06	187.16	19.56	124.05	0.00	210.84	89
RTM	06/13/2022		T75MIN	DOWN	4	Credit	270.12	343.82	442.06	187.16	19.56	124.05	0.00	210.84	89
RTM	06/13/2022		T75MIN	DOWN	2	Net Import Capability	5,982.21	5,467.35	6,126.77	7,325.84	7,495.27	7,354.45	8,243.82	7,096.83	7,534
RTM	06/13/2022		T75MIN	DOWN	3	Net Import Capability	5,982.21	5,467.35	6,126.77	7,325.84	7,495.27	7,354.45	8,243.82	7,096.83	7,534
RTM	06/13/2022		T75MIN	DOWN	1	Net Import Capability	5,982.21	5,467.35	6,126.77	7,325.84	7,495.27	7,354.45	8,243.82	7,096.83	7,534
RTM	06/13/2022		T75MIN	DOWN	4	Net Import Capability	5,982.21	5,467.35	6,126.77	7,325.84	7,495.27	7,354.45	8,243.82	7,096.83	7,534
RTM	06/13/2022		T75MIN	DOWN	2	Net Export Capability	9,552.79	9,545.65	9,782.23	9,838.16	9,735.73	9,543.55	9,795.18	9,756.17	9,268
RTM	06/13/2022		T75MIN	DOWN	3	Net Export Capability	9,552.79	9,545.65	9,782.23	9,838.16	9,735.73	9,543.55	9,795.18	9,756.17	9,268
RTM	06/13/2022		T75MIN	DOWN	1	Net Export Capability	9,552.79	9,545.65	9,782.23	9,838.16	9,735.73	9,543.55	9,795.18	9,756.17	9,268
RTM	06/13/2022		T75MIN	DOWN	4	Net Export Capability	9,552.79	9,545.65	9,782.23	9,838.16	9,735.73	9,543.55	9,795.18	9,756.17	9,268
RTM	06/13/2022		T75MIN	DOWN	2	Diversity Benefit	10.88	28.91	30.22	40.40	44.83	33.23	41.20	56.66	83
RTM	06/13/2022		T75MIN	DOWN	3	Diversity Benefit	10.88	28.91	30.22	40.40	44.83	33.23	41.20	56.66	83
RTM	06/13/2022		T75MIN	DOWN	1	Diversity Benefit	10.88	28.91	30.22	40.40	44.83	33.23	41.20	56.66	83
RTM	06/13/2022		T75MIN	DOWN	4	Diversity Benefit	10.88	28.91	30.22	40.40	44.83	33.23	41.20	56.66	83
RTM	06/13/2022		T75MIN	DOWN	2	Requirement Amount	-28.09	-173.17	-288.24	-87.03	23.46	-119.51	-17.01	-185.61	-59
RTM	06/13/2022		T75MIN	DOWN	3	Requirement Amount	51.87	-106.53	-240.93	-57.05	29.69	-105.75	-31.85	-200.63	-83
RTM	06/13/2022		T75MIN	DOWN	1	Requirement Amount	-114.68	-240.12	-341.32	-118.43	19.98	-117.68	3.84	-167.42	-35

Report Generated: 06/16/2022 15:20:57

The name of the Flexible Ramp Requirements Inputs report has been updated to Flexible Ramp Requirements Inputs and Outputs. This report will be enhanced to not just provide data on the Resource Sufficiency Evaluation Flex Ramp Sufficiency test inputs but expanded to include Output data as well. New output data will include the following for the T-75, T-55 and T-40 intervals:

- Pass/Fail status
- Load change
- Net load uncertainty
- Ramp capability