

Market Simulation - Fall 2022 Release

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Sep 6, 2022

Recordings

Calls and webinars are recorded for stakeholder convenience, allowing those who are unable to attend to listen to the recordings after the meetings. The recordings will be publicly available on the ISO web page for a limited time following the meetings. The recordings, and any related transcriptions, should not be reprinted without the ISO's permission.



Agenda

- Fall 2022 MAP Stage Availability
- Fall 2022 MAP Stage Connectivity Testing
- Fall 2022 Market Simulation Initiatives & Timelines
- Fall 2022 System Interface Changes
- Initiatives
 - Central procurement entity
 - Flexible ramping product deliverability
 - Hybrid resources phase 2B
 - Reliability demand resource response phase 2
- Next Steps



Fall 2022 MAP Stage Availability

- Refer to MAP Stage portal https://portalmap.caiso.com for system availability information
- Current MAP Stage Scheduled Maintenance
 - CIRA 9/1 9/13
- Upcoming MAP Stage Scheduled Maintenance
 - 9/09 Master File UI/API
 - 9/14 CMRI
 - 9/14 OASIS
- MAP Stage Weekly Maintenance Window
 - None



Fall 2022 MAP Stage Connectivity Testing

- Timeline:
 - Start TD 8/22 8/29
- Available for Connectivity
 - ALFS Submit/Retrieve SCVERForecast
- Upcoming for Connectivity
 - MF 9/14
 - CMRI 9/15
 - OASIS 9/15



Fall 2022 Market Simulation Initiatives & Timelines

Fall 2022 Initiatives	Start Date	Start Date (Trade Date)	End Date	Structured Simulation Start (Trade Date)
Fall 2022 Market Simulation	08/30/22	08/30/22	10/14/22	
Central procurement entity	09/19/22	09/22/22		09/22/22
Flexible ramping product – deliverability	09/15/22	09/16/22		09/27/22
Hybrid resources phase 2B	09/19/22	09/20/22		09/20/22
Reliability demand resource response phase 2	09/19/22	09/19/22		09/29/22

Market Simulation Plan:

https://www.caiso.com/Documents/MarketSimulationPlan-Fall2022Release.pdf



2022 - System Interface Changes

Syste m	Release	Project	API Service Name & Major Version, Artifacts	MAP-Stage	Production	Technical Specifications
SIBR	2022 Independent	Trans. Svc. & Mkt Sched. Priorities Ph. 1	New: SC of PT Export New: SC of supporting resource	✓ 5/5/22 - UI API TBD	✓ 6/1/22 - UI API TBD	TBD
MF	Fall 2022	Hybrid Resources 2B	SubmitGeneratorRDT_MFRDv5_20211001 RetrieveGeneratorRDT_MFRDv5_20211001	✓	Deployed	✓
MF	Fall 2022	Hybrid Resources 2B	 RDT Definitions v17 DRAFT: GRDT v17 Changes: RESOURCE tab: HYBRID_COMPONENTS tab: (Hybrid Resource Phase 2-B, activation date moved to Fall 2022) Add fields: MIN_CONT_ENERGY_LIMIT, MAX_CONT_ENERGY_LIMIT, ENERGY_EFFIC 	9/14/22	11/1/22	✓ <u>Drafts</u> 5/24/22
SIBR	Fall 2022	Hybrid Resources 2B	SubmitDynamicResourceLimitsData_SIBRv1 RetrieveDynamicResourceLimitsData_SIBRv1	October	11/1/22	✓ Artifacts 2/2/22 ✓ Tech Spec 2/8/22
ALFS	Fall 2022	Hybrid Resources 2B	SubmitSCVERForecast_ALFSv1 RetrieveSCVERForecast_FDRv1	√ 8/22/22	11/1/22	√ 5/25/22

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2022 - System Interface Changes

Syste m	Release	Project	API Service Name & Major Version, Artifacts		Production	Technical Specifications
CMRI	Fall 2022	Hybrid Resources 2B	Modify: RetrieveEIRForecast_CMRIv1_AP - 20220401 Modify: RetrieveEIRForecast_CMRIv1_DocAttach_AP - 20220401	9/19/22	11/1/22	√ 7/15/22
CMRI	Fall 2022	Hybrid Resources 2B	New: RetrieveAggregatedCapabilityConstraintDefinition_CMRIv1_AP New: RetrieveAggregatedCapabilityConstraintDefinition_CMRIv1_DocAttach_AP	9/19/22	11/1/22	√ 7/15/22
CMRI	Fall 2022	FRP Improvements – Deliverability	Resource Nodal prices for the FRP awards Will leverage existing API & UI functionality for FRP products (FRU/FRD) – No changes need for UI & API functionality; Users can continue to use existing UI/API functionality as is.	9/15/22	11/1/22	N/A
OASIS	Fall 2022	Hybrid Resources 2B	Include constraint in the Scheduling Constraint Shadow Prices report New: Aggregate Capability Constraint Shadow Prices; ACC_SHDW_PRC		11/1/22	√ 7/15/22
OASIS	Fall 2022	FRP Improvements — Deliverability	 Demonstrate the variability of locational pricing for FRU/FRD. New: Flex Ramp Requirements Input Uncertain Histogram; FLEX_RAMP_REQ_INP_HSG New: Flex Ramp Requirement Input - Polynomials; FLEX_RAMP_REQ_INP_POLYNOMIALS New: Flex Ramp Requirement Threshold; FLEX_RAMP_REQ_THRESH New: Flexible Ramp Test Result Groups; FLEX_RAMP_TEST_RESULT_GROUP New: Flexible Ramping Nodal Prices; FLEX_RAMP_NODAL_PRC New: Flexible Ramping Constraint Shadow Prices; FLEX_RAMP_CNSTR_SHDW_PRC New: Flexible Ramping Scheduling Constraint Shadow Prices; FLEX_RAMP_SCH_CNSTR_SHDW_PRC New: Flexible Ramping Forecasts; FLEX_RAMP_FCST Flexible Ramp Surplus Demand Curve; ENE_FLEX_RAMP_DC 	9/15/22	11/1/22	√ 7/15/22

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Central Procurement Entity

- Timeline: 09/19 09/30
- Structured: 9/22
- RA Data copy date 9/12-9/13
- RA plan submission date 9/14-9/19

Scenarios Document -

https://www.caiso.com/Documents/Market-Simulation-Structured-Scenarios-Central-Procurement-Entity.pdf



Flexible ramping product - deliverability

Timeline: 09/15- 10/14

• **Scenarios** : 09/27

Scenarios document -

https://www.caiso.com/Documents/Market-Simulation-Structured-Scenarios-Flexible-Ramping-Product.pdf



Hybrid resources phase 2B

• Timeline: 09/19 - 10/14

Scenarios: 09/20

Scenarios document –
 https://www.caiso.com/Documents/MarketSimulationStructuredS
 cenarios-HybridResourcesP2.pdf



Reliability demand resource response phase 2

• Timeline: 09/19 - 10/14

• Scenarios : 09/29

Scenarios document -

https://www.caiso.com/Documents/MarketSimulationStructuredScenarios-

ReliabilityDemandResponseResourcesPhase2.pdf



Next Steps

 The next teleconference is scheduled on September 08 at 1400 PDT



References



ISO Market Simulation Support

- Hours: Monday thru Friday 0900-1800 PDT
- ISO's 24x7 Service Desk: (916) 351-2309 (Connectivity

 UI or API)
- Email: MarketSim@caiso.com



Market Simulation Issue Management

- Submit all issues to the CIDI case management system
- CIDI tickets must have "Functional Environment" =
 "Market Simulation Fall 2022" to be reviewed by ISO
 SMEs



Fall 2022 Communication Plan

Schedule

Monday	Tuesday	Thursday
Aug 22, 29		Aug 18, 25
Sep 12, 19, 26	Sep 26	Sep 01, 08, 15, 22,
	·	29

Connection Information

Web Conference Information

Web Address: https://caiso.webex.com/meet/MarketSim

Meeting Number: 962 067 710

Audio connection instructions will be available after connecting to the web conference. When
prompted, select "Call me" and enter the phone number you will use during the call. You will be called
by the conference shortly.

Conference Call Information

Dial-in Number:

- 1-844-517-1271 (Toll Free)

- 1-682-268-6591

Access Code: 962 067 710



Structured Scenario Registration Details

MP's will need to register their request with the ISO to participate in this simulation via the MarketSim@caiso.com mailbox.

Date of registration August 12, 2022.

We will do our best to accommodate for late registration



Fall 2022 Market Simulation Settlements Calendar



Fall2022 Market Sim Calendar (MAP STAGE) Aug 22, 2022 through September 30, 2022

Calendar Day	Day	CMRI T+1B	Submit Meter Data by T+2B 10:00 for Initial	Publish Initial Statement T+5B	Submit Meter Data by T+5B 18:00 for Recalc	Publish Recalc Statement	Publish Market Invoice
			T+9B	T+9B	T+70B	T+70B	
22-Aug-22	Monday						
23-Aug-22	Tuesday						
24-Aug-22	Wednesday	23-Aug					
25-Aug-22	Thursday		23-Aug				
26-Aug-22	Friday	25-Aug	- J				
27-Aug-22	Saturday	<u> </u>					
28-Aug-22	Sunday						
29-Aug-22	Monday		25-Aug				
30-Aug-22	Tuesday		, and the second	23-Aug	23-Aug		
31-Aug-22	Wednesday	30-Aug			Ĭ		
01-Sep-22	Thursday	-	30-Aug	25-Aug	25-Aug		
02-Sep-22	Friday			-		23-Aug	
03-Sep-22	Saturday						
04-Sep-22	Sunday						
05-Sep-22	Monday				Cal ISO Holiday		
06-Sep-22	Tuesday						
07-Sep-22	Wednesday	6-Sep		30-Aug	30-Aug	25-Aug	
08-Sep-22	Thursday	·					Daily Initial 23-Aug; Daily Initial 25-Aug;
							Daily Initial 30-Aug;
			6-Sep	Monthly Initial 23-Aug - 30-Aug			Monthly Initial 23-Aug - 25-Aug
09-Sep-22	Friday	8-Sep					
10-Sep-22	Saturday						
11-Sep-22	Sunday						
12-Sep-22	Monday		8-Sep			30-Aug	
13-Sep-22	Tuesday			6-Sep	6-Sep	Monthly Recalc 23-Aug - 30-Aug	Daily Recalc 23-Aug; Daily Recalc 25-Aug; Daily Recalc 30-Aug; Monthly Recalc 23-Aug - 25-Aug
14-Sep-22	Wednesday	13-Sep					
15-Sep-22	Thursday		13-Sep	8-Sep	8-Sep		
16-Sep-22	Friday						Daily Initial 6-Sep; Daily Initial 8-Sep;
		15-Sep		Monthly Initial 6-Sep - 8-Sep		6-Sep	Monthly Initial 6-Sep - 8-Sep
17-Sep-22	Saturday	· ·		· · · · · · · · · · · · · · · · · · ·		· ·	, , ,
18-Sep-22	Sunday						
19-Sep-22	Monday		15-Sep				
20-Sep-22	Tuesday			13-Sep	13-Sep	8-Sep	
21-Sep-22	Wednesday	20-Sep				Monthly Recalc 6-Sep - 8-Sep	Daily Recalc 6-Sep; Daily Recalc 8-Sep; Monthly Recalc 6-Sep - 8-Sep
22-Sep-22	Thursday		20-Sep	15-Sep	15-Sep		
23-Sep-22	Friday	22-Sep		Monthly Initial 13-Sep - 15-Sep		13-Sep	Daily Initial 13-Sep; Daily Initial 15-Sep; Monthly Initial 13-Sep - 15-Sep
24-Sep-22	Saturday						
25-Sep-22	Sunday						
26-Sep-22	Monday		22-Sep				
27-Sep-22	Tuesday		22 500	20-Sep	20-Sep	15-Sep	
28-Sep-22	Wednesday		+	20 July	20 300	15 500	Daily Recalc 13-Sep; Daily Recalc 15-Sep;
		27-Sep				Monthly Recalc 13-Sep - 15-Sep	Monthly Recalc 13-Sep, Daily Recalc 13-Sep,
29-Sep-22	Thursday	27-3cp	27-Sep	22-Sep	22-Sep	monany necale 15-3ep - 15-3ep	Monthly Recalc 15-3ep - 15-3ep
	Friday		27 бер	22 Sep	zz-sep		Daily Initial 20-Sep; Daily Initial 22-Sep;
30-Sep-22							

Market Simulation Settlements Calendar Fall 2022:

https://www.caiso.com/Documents/MarketSimulationSettlementsCalendar-Fall2022Release.pdf

