Market Simulation – Summer 2021 Release

Anshuman Vaidya

Market Simulation Coordinator

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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

- Summer 2021 Release MAP Stage Availability
- Summer 2021 Release Market Simulation Initiatives & Timelines
- Initiatives
    - FERC order 831 - pricing parameters, import bid screening, and validation
    - Resource adequacy enhancements track 1
    - Summer 2021 readiness

- Structured Scenario Registration Details
- Summer 2021 - System Interface Changes
- Next Steps

Summer 2021 Release MAP Stage Availability

- Refer to MAP Stage portal https://portalmap.caiso.com for system availability information

- Current MAP Stage Scheduled Maintenance
  - MF 5/6-5/10
  - OMS UI/API Unavailable 5/12-5/17

- MAP Stage Weekly Maintenance Window
  - Friday

Summer 2021 Release Market Simulation Initiatives & Timelines

Summer 2021 Release Initiatives	Start Date	Start Date (Trade Date)	End Date	Structured Simulation Start (Trade Date)	Go Live Date
Summer 2021 Release Market Simulation	04/26/21	04/26/21	05/28/21	05/10/21	
FERC order 831				05/25-05/27	June 15
Resource adequacy enhancements track 1 Phase 1 – Scenario 1,2 Phase 2 – Scenario 3,4,5		Phase 1 – 5/17 Phase 2 – 6/14		Phase 1 - **05/18 & 5/20** Phase 2 – 6/15	Phase 1 - June 03 Phase 2- June 30
Summer 2021 readiness Phase 1 – Scenario 6,7,8 Phase 2 – Scenario 1,2,5 Phase 3 – Scenario 3,4		Phase 1 – 5/20 Phase 2 – 5/27 Phase 3 – 6/14		Phase 1 – 5/20 & 5/25 Phase 2 – 6/01 & 6/03 Phase 3 – 6/15 & 6/17	Phase 1&2 –June 15 Phase 3 – June 30
Summer 2021 readiness Export, wheeling, and load scheduling priorities	TBD	TBD		TBD	By July 15

Market Simulation Plan:
http://www.caiso.com/Documents/MarketSimulationPlan-Summer2021Release.pdf

Scenario Description

- **Resource Adequacy Enhancements - Phase 1**

Scenario #1: "Description Fully covered substitution"

Scenario #2: "Less than full substitution"

- **Resource Adequacy Enhancements - Phase 2**

Scenario #3: "Outages already started cannot be extended" *This scenario will be tested as unstructured

Scenario #4: "Binding Min EOH SOC Requirements"

Scenario #5: "Deactivation of Enforcement of Binding Min EOH SOC Requirements in RTM"

- **Summer Readiness - Phase 1**

Scenario #6 "Flexible Ramping Capacity and Sufficiency Tests."

Scenario #7 "Auto-mirroring for specified mirror resources

Scenario #8 "Use last advisory RTD schedules while contingency event in EIM BAA extends beyond the advisory horizon

- **Summer Readiness - Phase 2**

Scenario #1 "RTM Import & Export Market Incentives during Tight System Conditions":

Scenario #2 "Release of All Applicable (Contingent & non-Contingent) Operating Reserves at the Bid Cap Price":

Scenario #5 "RDRR Enable dispatch in RTM

- **Summer Readiness - Phase 3**

Scenario #3 "Ensure Storage Resources have Sufficient SOC to Support Regulation Up and Regulation Down Awards for at Least 30 Minutes in RTM":

Scenario #4 "Operator Utilization of Traditional ED for Storage Resources"

Market Simulation Initiatives

- **Timeline : April 26 – May 28**

- **FERC order 831**
  - **Structured** : May 25, 26, 27 (Buffer dates June 1, 2, 3)
  - Structured Scenarios document - http://www.caiso.com/Documents/MarketSimulationStructuredScenarios-FERCorder831.pdf
  - Business Requirements Specification - http://www.caiso.com/Documents/BusinessRequirementsSpecificationFERC831ImportBiddingMarketParameters.pdf

- **Resource adequacy enhancements track 1**
  - **Structured** : Phase 1: May 18 & 20,   Phase 2: June 15
  - Business Requirements Specification - http://www.caiso.com/Documents/Business-Requirements-Specification-Resource-Adequacy-Enhancements-Track-1-Clean.pdf
  - Structured Scenarios document - http://www.caiso.com/Documents/MarketSimulationResourceAdequacyEnhancementTrack1.pdf

- **Summer 2021 readiness**
  - **Structured** : Phase 1: May 20 & 25, Phase 2: June 01 & 03 , Phase 3: June 15 & 17
  - Business Requirements Specification - http://www.caiso.com/Documents/BusinessRequirementsSpecificationSummer2021Readiness.pdf
  - Structured Scenarios document - http://www.caiso.com/Documents/MarketSimulationStructuredScenariosSummerReadiness2021.pdf

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

FERC 831 & Summer 2021 readiness – May 6th, 2021

We will do our best to accommodate for late registration

Summer 2021 - System Interface Changes

Summer 2021 Release					
Project	System	API Service Name & Major Version, Artifacts	MAP Stage	Production	Technical Specifications/Publication
Summer Readiness	MF	GeneratorRDT_v5 GRDT spreadsheet Version 15.0	5/10/21	By 6/30/21	✓ v7.0; 4/16/21 To Publish 5/7/21
	MF	IntertieRDT_v1 Intertie Resource Data Template (spreadsheet) Version 6.0	5/10/21	By 6/30/21	✓ v7.0; 4/16/21 To Publish 5/7/21
	MF	GRDT & IRDT Definitions	N/A	N/A	To Publish 5/7/21
	SIBR	CleanBidSet_v5; 20210401	6/14/21	By 6/30/21	✓ v13.3; 4/19/21
	SIBR	RawBidSet_v5; 20210401	6/14/21	By 6/30/21	✓ v13.3; 4/19/21
	SIBR	BidResults_v5; 20210401	6/14/21	By 6/30/21	✓ v13.3; 4/19/21
	OASIS	ENE_SCH_BY_TIE Energy > Schedule by Tie	6/14/21	By 6/30/21	✓ v6.0.0; 4/9/21
RA Enhancements	CMRI	StorageOperatingLimit_v1	6/15/21	By 6/30/21	✓ v4.1.0; 4/16/21
	OASIS	ENE_UND_SPLY_INF_EC Energy > Under Supply Infeasibility and Enforced Constraints	6/15/21	By 6/30/21	✓ v6.1.0; 4/16/21
	CIRA	Application Changes	✓ 5/5/21	6/3/21	N/A
	OMS	Application Changes	5/17/21	6/3/21	N/A
FERC831	OASIS	PRC_HRLY_ENE_SHAPING_FCTR Pricing > Hourly Energy (Price) Shaping Factor	5/17/21	6/15/21	✓ v6.0.0; 4/9/21
	OASIS	ATL_CNSTR_RLXN_THRESHOLD Atlas Reference > Constraint Relaxation Threshold	5/17/21	6/15/21	✓ v6.0.0; 4/9/21

Next Steps

- The next teleconference is scheduled on May 10 at 2 PM

Reference Slides

California ISO

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

Spring 2021 Release Communication Plan

- ## Schedule

Monday	Thursday
April 26	April 22, 29
May 3,10,17,24	May 6,13,20,27

- ## 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

Market Simulation Issue Management

- Submit all issues to the CIDI case management system
- CIDI tickets must have "**Functional Environment**" = "**Market Simulation Summer 2021**" to be reviewed by ISO SMEs

California ISO

Summer 2021 Release MAP Stage Connectivity Testing

- **Timeline :** April 26 – May 10

Summer 2021 Release - Market Simulation Overview

Wk	Date	ISO	Market Participants
1	4/26-5/10	Mkt Sim Readiness Testing	Connectivity
2	5/10-5/28		Structured Scenarios
3	5/10-5/28		Unstructured Simulation

Calendar Day	Day	CMRI T+1B	Submit Meter Data by T+2B 10:00 AM for Initial	Publish Initial Statement T+5B	Submit Meter Data by T+5B 18:00 for Recalc	Publish Recalc Statement T+8B	Publish Market Invoice
24-May-21	Monday		20-May				
25-May-21	Tuesday			18-May	18-May	13-May	
26-May-21	Wednesday	25-May				Monthly Recalc 11-May -13-May	Daily Recalc 11-May; 13-May Monthly Recalc 11-May - 13-May
27-May-21	Thursday	26-May	25-May	20-May	20-May		
28-May-21	Friday	27-May	26-May	Monthly Initial 18-May -20-May		18-May	Daily Initial 18-May; 20-May Monthly Initial 18-May - 20-May

Settlements TDs Tue/Thu
Maintenance Friday
Market Simulation Plan
Market Simulation Settlements Calendar

California ISO