



# Market Simulation – Summer 2021 Release

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# Recordings

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# 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
  - CIRA UI/API 4/21 thru 4/30
- MAP Stage Weekly Maintenance Window
  - Friday

# Summer 2021 Release Market Simulation Initiatives & Timelines

<b>Summer 2021 Release Initiatives</b>	<b>Start Date</b>	<b>Start Date (Trade Date)</b>	<b>End Date</b>	<b>Structured Simulation Start (Trade Date)</b>	<b>Go Live Date</b>
<b>Summer 2021 Release Market Simulation</b>	04/26/21	04/26/21	05/28/21	05/10/21	
<b>FERC order 831</b>				05/25-05/27	June 15
<b>Resource adequacy enhancements track 1</b> Phase 1 – Scenario 1,2,3 Phase 2 – Scenario 4,5				Phase 1 - 05/11 & 5/13 Phase 2 – 6/15	Phase 1 - June 03 Phase 2- June 30
<b>Summer 2021 readiness</b> 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

## Market Simulation Plan:

<http://www.aiso.com/Documents/MarketSimulationPlan-Summer2021Release.pdf>

# Scenario Description

- **Resource Adequacy Enhancements - Phase 1**

Scenario #1: “Description Fully covered substitution”

Scenario #2: “Less than full substitution”

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

- **Resource Adequacy Enhancements - Phase 2**

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
  - 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 11 & 13, 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](mailto:MarketSim@caiso.com) mailbox.

Date of registration

RA Enhancements Track 1 - April 26<sup>th</sup>, 2021.

FERC 831 & Summer 2021 readiness – May 6<sup>th</sup>, 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
Summer Readiness	MF	GeneratorRDT_v5	TBD	June 2021	✓ v7.0; 4/16/21
	MF	IntertieRDT_v1	TBD	June 2021	✓ v7.0; 4/16/21
	SIBR	CleanBidSet_v5; 20210401	TBD	June 2021	✓ v13.3; 4/19/21
	SIBR	RawBidSet_v5; 20210401	TBD	June 2021	✓ v13.3; 4/19/21
	SIBR	BidResults_v5; 20210401	TBD	June 2021	✓ v13.3; 4/19/21
	OASIS	ENE_SCH_BY_TIE Energy > Schedule by Tie	TBD	June 2021	✓ v6.0.0; 4/9/21
RA Enhancements	CMRI	StorageOperatingLimit_v1	TBD	June 2021	✓ v4.1.0; 4/16/21
	OASIS	ENE_UND_SPLY_INF_EC Energy > Under Supply Infeasibility and Enforced Constraints	TBD	June 2021	✓ v6.1.0; 4/16/21
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 03 at 2 PM

# Reference Slides

# 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](mailto:MarketSim@caiso.com)

# Spring 2021 Release Communication Plan

- **Schedule**

<b><i>Monday</i></b>	<b><i>Thursday</i></b>
April 26 May 3,10,17,24	April 22, 29 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

# 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](#)

