

# **Market Simulation Structured Scenarios**

# **Extended Day-Ahead Market**

Version 1.4 **04/30/2025** 

## **Revision History**

| Date       | Version | Description  |  |
|------------|---------|--|--|
| 01/26/2024 | 1.0     | Document Created   |  |
| 03/24/2025 | 1.1     | pdated document with additional information as well as From/To ocument in section 4.3. DITL and updated MSIM Scenarios to be rovided in future version of this document. |  |
| 04/21/2025 | 1.2     | Jpdated Section 6.3 Structured Scenarios   |  |
| 04/24/2025 | 1.3     | Updated Parallel Operations date from 01/01/26 to 01/26/26 to match RUG calendar.  |  |
| 04/30/2025 | 1.4     | Added Structured Scenario EDAM-MSS-014. Added Charge Codes for Scenarios.  |  |



# Market Simulation Templates Program Office

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#### ISO External Market Simulation Structured Scenarios

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#### ISO External Market Simulation Structured Scenarios

## 1. Introduction

The primary goal of market simulation testing is to ensure that CAISO and external participants are prepared for live market conditions and can operate effectively within the CAISO markets. These simulations are crucial when there are new market features, rule changes, system upgrades, and/or new participants joining the market.

- 1. Enhanced Efficiency and Stability: Simulations contribute to efficient and stable market operations by allowing CAISO and entities' systems to work in unison.
- 2. New Rule and Feature validation: CAISO may introduce new market rules, protocols, or features in order to adhere to architecture roadmaps, compliance standards, operational enhancements, and/or policy and stakeholder processes. Simulation testing allows for early detection and correction of issues, ensuring new rules and functionalities do not inadvertently impact market operations.
- 3. Increased Operational Readiness: For market participants, simulations provide a hands-on environment to practice new functionality being implemented to ensure systems are compatible and ready for CAISO's operational protocols.
- 4. Effective Risk Mitigation: By identifying and addressing issues in a controlled environment, both CAISO and market participants can reduce risks associated with software malfunctions, data errors, or misunderstanding of market rules and implementation impacts.

The objective of this document is to provide the information needed for Market Participants to participate in the Extended Day-Ahead Market MAPSTAGE Market Simulation scenarios:

For the scope of this implementation and this initiative, please refer to the Extended Day-Ahead Market External Business Requirements Specification – Release Planning.

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# 2. Market Simulation Schedule

| Initiative   | Connectivity<br>Testing | Integration<br>Testing | Structured<br>Market Sim | Unstructured<br>Market Sim | Parallel<br>Operations              | Activation |
|--|-------------------------|------------------------|--------------------------|----------------------------|-------------------------------------|------------|
| Day-Ahead<br>Market<br>Enhancements                          | 06/01/25 –<br>09/01/25  | NA                     | 09/01/25 –<br>12/01/25   | 12/01/25 –<br>01/15/26     | 01/26/26 –<br>03/26/26<br>(EDAM OB) | 05/01/26   |
| Extended Day-<br>Ahead Market                                | 06/01/25 –<br>09/01/25  | NA                     | 09/01/25 –<br>12/01/25   | 12/01/25 –<br>01/15/26     | 01/26/26 –<br>03/26/26<br>(EDAM OB) | 05/01/26   |
| EDAM ISO<br>BAA<br>Participation<br>Rules Track A            | 06/01/25 –<br>09/01/25  | NA                     | 09/01/25 –<br>12/01/25   | 12/01/25 –<br>01/15/26     | 01/26/26 –<br>03/26/26<br>(EDAM OB) | 05/01/26   |
| Extended Day-<br>Ahead Market<br>On-Boarding -<br>Pacificorp | 05/02/25 –<br>05/31/25  | 06/01/25 –<br>09/01/25 | 09/01/25 –<br>12/01/25   | 12/01/25 –<br>01/15/26     | 01/26/26 –<br>03/26/26              | 05/01/26   |
| Extended Day-<br>Ahead Market<br>- PGE                       | 11/01/25 –<br>11/30/25  | 12/01/25 –<br>01/31/26 | 02/01/26 –<br>04/30/26   | 05/01/26 –<br>06/12/26     | 05/18/26 –<br>09/04/26              | 10/01/26   |
| WEIM -<br>Berkshire<br>Hathaway<br>Energy<br>Montana         | 09/01/25 –<br>10/17/25  | 10/01/26 –<br>11/30/26 | 12/01/25 –<br>02/13/26   | NA                         | 02/16/26 –<br>04/17/26              | 05/06/26   |
| WEIM – Black<br>Hills  | 09/01/25 –<br>10/17/25  | 10/01/26 –<br>11/30/26 | 12/01/25 –<br>02/13/26   | NA                         | 02/16/26 –<br>04/17/26              | 05/06/26   |

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## 3. Connectivity Testing – May 2, 2025

## 3.1 Connectivity Testing Overview

- Covers network testing and certificate provisioning
- Participants without certificates are expected to reach out to their User Access Administrator (UAA) for proper provisioning.
- Participants must attain MAPSTAGE provisioning for the following applications ahead of Market Simulation: MF, SIBR, MRI-S, PLC, webOMS, OASIS, and ALFS.
- Participants must update their firewall settings to ensure proper connections to applications ahead of Market Simulation.

### 3.2 Connectivity Testing Success Criteria

| Certificate | Success Criteria  |
|-------------|---|
| YES         | <ul> <li>Successful upon completion of following criteria:</li> <li>Access application via User Interface (UI) and login</li> <li>Access application via API</li> </ul>       |
| NO          | <ul> <li>Successful upon completion of following criteria:</li> <li>Access network via UI and/or API and receive error message about incorrect provisioning</li> </ul>        |
| NO          | <ul> <li>Not successful if:         <ul> <li>Attempt to access network via UI and/or API and receive error message other than request for provisioning</li> </ul> </li> </ul> |

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# 4. Integration Testing – June 1, 2025

### 4.1 Integration Testing Overview

- Participants have successfully attained certificate provisioning and have successfully completed
   Connectivity Testing to proceed to Integration Testing
- Participants are to test submission and retrieval of data
- For the purposes of Integration Testing ISO shall ensure the following:
  - MAPSTAGE code is completed
  - Availability of MAPSTAGE environment applications externally
  - o Mock data for testing of submissions and retrievals

Note: The quality of data at this point in time is not ensured for the purposes of Integration Testing for submission and retrieval.

### 4.2 Integration Testing Success Criteria – Mock Data

| Certificate | Success Criteria  |
|-------------|---|
| YES         | <ul> <li>Successful upon completion of connectivity testing</li> <li>Successful submission and retrieval via UI of Mock Data</li> <li>Successful submission and retrieval via API of Mock Data</li> </ul> |
| YES         | <ul> <li>Not successful if:</li> <li>Receiving submission or retrieval error messages. Submit CIDI and email marketsim@caiso.com for support.</li> </ul>  |
| NO          | <ul> <li>Not successful as participant cannot proceed to Integration Testing without first<br/>attaining proper provisioning</li> </ul>   |

#### 4.3 From/To Documentation

Market Participants are expected to review the provided <u>From/To Day In the Life</u> documentation and build an inventory of services being planned for utilization for the purposes of participation in the Extended Day Ahead Market (EDAM). Each participant is to review, and build their own list of planned services for utilization, and then test these services for the purposes of Market Simulation.

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## 5. Integration + Settlements – July 1, 2025

## 5.1 Integration Testing + Settlements Overview

- Upon completion of successful Integration Testing participants can continue Integration Testing
  with live data and Settlement results beginning on 7/1/25 Participants are to test submission and
  retrieval of data
- For the purposes of Integration Testing ISO shall ensure the following:
  - Live data for testing of submissions and retrievals
  - Publishing of Settlements Statements once a week

Note: Participants must review Settlement Statements to ensure understanding of proper format required for submission.

## 5.2 Integration Testing Success Criteria – Live Data

| Certificate | Success Criteria   |
|-------------|--|
| YES         | <ul> <li>Successful upon completion of connectivity testing and Integration Testing with mock data</li> <li>Successful submission and retrieval via UI of <u>Live</u> Data</li> <li>Successful submission and retrieval via API of <u>Live</u> Data</li> </ul> |
| YES         | <ul> <li>Not successful if:</li> <li>Receiving submission or retrieval error messages. Submit CIDI and email marketsim@caiso.com for support.</li> </ul>   |
| NO          | <ul> <li>Not successful as participant cannot proceed to Integration Testing without first attaining proper provisioning</li> </ul>  |

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## 6. Market Simulation—Sept. 1, 2025

#### 6.1 Market Simulation Overview

- Covers testing in the MAPSTAGE environment
- MAPSTAGE is an integrated Production-like environment that is available to customers with provisioned access
- Allows customers to experience ISO release/project implementations prior to Production implementation
- Market Simulation will allow customers and the CAISO to conduct specific market scenarios in a test environment prior to the Production activation to ensure that all system interfaces are functioning as expected and to produce simulated market results
- Customers may use MAPSTAGE to validate the interaction of customer-driven changes with the ISO systems

Note: Market participants must submit a request to the ISO by email <a href="MarketSim@caiso.com">MarketSim@caiso.com</a> as well as submit a CIDI with their intent to participate in the EDAM Market Simulation. Participants must register by August 15<sup>th</sup>, 2025.

#### 6.2 Market Simulation Success Criteria – Live Data

| Certificate | Success Criteria   |
|-------------|--|
| YES         | <ul> <li>Successful upon completion of connectivity testing and Integration Testing with live data</li> <li>Successful completion of Structured Market Simulation Scenarios</li> </ul> |
| YES         | <ul> <li>Not successful if:</li> <li>Receiving submission or retrieval error messages. Submit CIDI and email marketsim@caiso.com for support.</li> </ul>                               |
| NO          | <ul> <li>Not successful as participant cannot proceed to Market Simulation Testing without first<br/>attaining proper provisioning</li> </ul>  |

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## 6.3 Structured Scenarios

Note: ISO is currently updating the Structured Market Simulation scenarios and shall request feedback on the scenarios from the participants.

#### 6.3.1 **EDAM MSS - 001**

| Scenario |  |   |  |  |
|----------|--|---|--|--|
| Number   |  | Structured scenario   |  |  |
|          | Description                              | DA-resource sufficiency test upward direction:  |  |  |
|          | EDAM<br>Market<br>Participant<br>Actions | Identify the impact of binding DA-RSE upward direction test failure and demonstrate no impact in the subsequent passes due to DA RSE failure (GHG, IFM, RUC).   |  |  |
| 1        | ISO Actions                              | <ul> <li>In the event a BAA fails the DA RSE in the upward direction and the failure binds, CAISO to enforce Net Transfer Constraints (NTCs) which limit the ability of deficient BAA to export energy.</li> <li>The BAA can import but cannot draw more than its share of capacity plus what it can contribute. This helps to protect the rest of EDAM by protecting BAAs from reliability exposure. ISO utilizes optimization passes for GHG, IFM, and RUC as the binding failure may lead to modified intertie schedules. This allows for the broader EDAM market to solve efficiently without dependence on the failing BAA.</li> </ul> |  |  |
|          | Market<br>Participant<br>Actions         | BAA with failing DA RSE upward direction test still able to import but cannot draw more than its share of capacity plus what can contribute.  |  |  |
|          | Expected<br>Outcome                      | <ul> <li>Market Solution to optimize passes for GHG, IFM, RTM due to<br/>the impact of DA TSE upward direction failure.</li> </ul>  |  |  |
|          | Anticipated<br>Settlement<br>Outcome     | <ul> <li>Deficient BAA assessed a Deficiency Charge to reflect its shortfall.</li> <li>Surcharge revenue is distributed to compliance BAAs, compensating them for maintaining reliability.</li> </ul>   |  |  |
|          | Expected<br>Settlement<br>Outcome        | Charge Code: 8080, 8088   |  |  |

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#### 6.3.2 **EDAM MSS-002**

| Scenario<br>Number | Structured scenario                      |  |  |
|--------------------|--|--|--|
|                    | Description                              | DA-resource sufficiency test downward direction  |  |
|                    | EDAM<br>Market<br>Participant<br>Actions | Identify the impact of binding DA-RSE downward direction test failure and demonstrate no impact in the subsequent passes due to DA RSE failure (GHG, IFM, RUC)   |  |
|                    | ISO Actions                              | <ul> <li>ISO enforces Downward Net Transfer Constraints where the deficient BAA is prevented from importing additional energy in DA optimization as cannot absorb more power.</li> <li>ISO enforces NTCs to limit schedules that would worsen BAA's over generation risk.</li> <li>Market Solution to run GHG, IFM, RUC passes for rest of the footprint, and deficient BAA's infeasibility is recognized and excluded as needed.</li> </ul> |  |
| 2                  | Market Participant Actions               | N/A  |  |
|                    | Expected<br>Outcome                      | <ul> <li>Market Solution to absorb over generation without relaxing constraints.</li> <li>Limit schedules that would worsen BAA's over generation risk, and protect other BAAs from having to curtail extra for the deficient BAA.</li> <li>Exclude deficient BAA from absorbing excess capacity as needed.</li> </ul>   |  |
|                    | Anticipated<br>Settlement<br>Outcome     | <ul> <li>Deficient BAA is charged Downward Deficiency Surcharge based on megawatt quantity and duration of insufficiency.</li> <li>Compliant BAAs may receive a share of this charge as compensation for reliability support.</li> </ul>   |  |
|                    | Expected<br>Settlement<br>Outcome        | Charge Code: 8080, 8088  |  |

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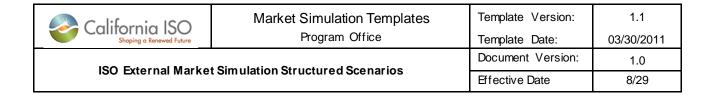
### 6.3.3 **EDAM MSS-003**

| Scenario<br>Number | Structured scenario                      |   |  |
|--------------------|--|---|--|
|                    | Description                              | DA Congestion Management within EDAM Entity BAAs  |  |
|                    | EDAM<br>Market<br>Participant<br>Actions | <ul> <li>Identify the impact of flowgate congestion caused by outage/de-rate within EDAM BAAs.</li> <li>Activate/deactivate constraint status for Flowgates/ Nomogram constraints/ Contingencies.</li> <li>Net transfer out constraint activation.</li> <li>Market Participant to specify which constraint(s) they would like to see binding (if any).</li> </ul> |  |
| 3                  | ISO Actions                              | <ul> <li>ISO to identify constraints that likely lead to congestion.</li> <li>ISO to adjust the constraints as needed based on which constraints Market Participants would like to see binding (if any).</li> </ul>   |  |
|                    | Market<br>Participant<br>Actions         | N/A   |  |
|                    | Expected<br>Outcome                      | <ul> <li>Optimization of generation and transmission schedules.</li> <li>Prevent and Mitigate transmission constraints being violated.</li> <li>Ensure deliverability of energy and ancillary services through feasible reliable paths.</li> </ul>  |  |
|                    | Anticipated<br>Settlement<br>Outcome     | Updated Settlements based on adjusted Market Participant binding constraints.   |  |
|                    | Expected<br>Settlement<br>Outcome        | Charge Code: 6700, 6790, 8704   |  |

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#### 6.3.4 EDAM MSS-004

| Scenario<br>Number | Structured scenario                      |   |  |
|--------------------|--|---|--|
|                    | Description                              | DA mitigation within EDAM Entity BAAs   |  |
|                    | EDAM<br>Market<br>Participant<br>Actions | Identify mitigation on resources deemed as having non-competitive pricing and market power over constrained areas.              |  |
|                    | ISO Actions                              | ISO to apply automated mitigation mechanisms to ensure bids reflect competitive market conditions and not economic withholding. |  |
| 4                  | Market<br>Participant<br>Actions         | N/A   |  |
|                    | Expected<br>Outcome                      | DA price formation is consistent across the entire EDAM footprint, preventing isolated areas of unmitigated market power.       |  |
|                    | Anticipated<br>Settlement<br>Outcome     | Updated Locational Marginal Prices (LMPs) due to DA resource mitigation.  |  |
|                    | Expected<br>Settlement<br>Outcome        | Charge Code: N/A  |  |



#### 6.3.5 **EDAM MSS-005**

| Scenario<br>Number |  | Structured scenario   |  |  |
|--------------------|--|---|--|--|
|                    | Description                              | DA Green House Gas allocation and Attribution constraint  |  |  |
|                    | EDAM<br>Market<br>Participant<br>Actions | Identify the capability of EDAM entity to receive GHG allocation, export to GHG regulation area, and enforce gross GHG attribution constraints.   |  |  |
|                    | ISO Actions                              | <ul> <li>ISO to validate bid submissions received in Market and ensure market is functioning as expected.</li> <li>Run market and publish EDAM awards and locational prices.</li> <li>Run settlements and publish.</li> </ul> |  |  |
| 5                  | Market<br>Participant<br>Actions         | N/A   |  |  |
|                    | Expected<br>Outcome                      | <ul> <li>GHG resource reference and GHG awards.</li> <li>Verify all submissions within CMRI/SIBR Uls</li> </ul>   |  |  |
|                    | Anticipated<br>Settlement<br>Outcome     | RTM deviation Settlements for GHG   |  |  |
|                    | Expected<br>Settlement<br>Outcome        | Charge Code: 8310, 8315   |  |  |

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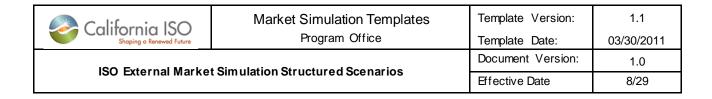
#### 6.3.6 **EDAM MSS-006**

| Scenario<br>Number | Structured scenario                      |  |  |
|--------------------|--|--|--|
|                    | Description                              | DA Net Energy Transfer limitation with power balance shortfall/surplus   |  |
|                    | EDAM<br>Market<br>Participant<br>Actions | Identify the impact of net energy transfer in DAM (IFM, RUC) when there is violation of power balance constraint.  |  |
| 6                  | ISO Actions                              | <ul> <li>Ensure each BAA remains balanced and operationally viable.</li> <li>ISO to enforce Net Energy Transfer Limitations to prevent deficient BAA from relying on neighboring BAAs to cover shortfall.</li> <li>Relax power balance constraints in event cannot resolve within NETL limits</li> </ul> |  |
|                    | Market<br>Participant<br>Actions         | N/A  |  |
|                    | Expected<br>Outcome                      | BAAs remain balanced, no impacts to market optimization.   |  |
|                    | Anticipated<br>Settlement<br>Outcome     | Market Participants financially exposed to imbalances caused by infeasibility.   |  |
|                    | Expected<br>Settlement<br>Outcome        | Charge Code: 8011, 8411, 8470, 8811  |  |

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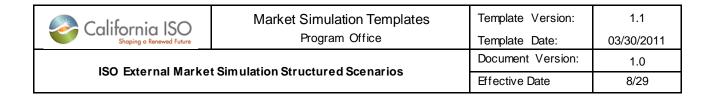
#### 6.3.7 **EDAM MSS-007**

| Scenario<br>Number | Structured scenario                      |   |  |
|--------------------|--|---|--|
|                    | Description                              | EDAM Entity BAA isolation   |  |
|                    | EDAM<br>Market<br>Participant<br>Actions | Identify the impact of TSR locks with other EDAM participants and demonstrate that each participant has its own MEC.  |  |
|                    | ISO Actions                              | N/A   |  |
| 7                  | ISO Market<br>Participant<br>Actions     | N/A   |  |
| ,                  | Expected<br>Outcome                      | Assess impact to market-Available Transfer Capability on transmission paths between EDAM BAAs and its effect on increased congestion, higher LMP separation, and reduced ability to economically export or import energy. |  |
|                    | Anticipated<br>Settlement<br>Outcome     | Assess impact to Settlements on economic outcomes.  |  |
|                    | Expected<br>Settlement<br>Outcome        | Charge Code: N/A  |  |



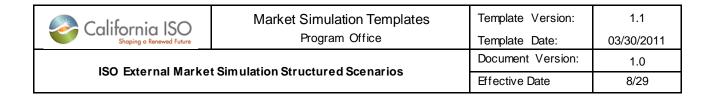
#### 6.3.8 EDAM MSS-008

| Scenario<br>Number | Structured scenario                      |   |  |
|--------------------|--|---|--|
|                    | Description                              | DA Neutrality   |  |
|                    | EDAM<br>Market<br>Participant<br>Actions | Demonstrate that any EDAM BAA can import / export energy and capacity to ISO via MF registered TSR. |  |
|                    | ISO Actions                              | N/A   |  |
| 8                  | ISO Market Participant Actions           | N/A   |  |
|                    | Expected<br>Outcome                      | EDAM BAA import/export functions as expected.   |  |
|                    | Anticipated<br>Settlement<br>Outcome     | Validate Settlements outcome is as expected based on import/export energy and capacity.             |  |
|                    | Expected<br>Settlement<br>Outcome        | Charge Code: 8011, 8411, 8470, 8811   |  |



#### 6.3.9 EDAM MSS-009

| Scenario<br>Number | Structured scenario                      |  |  |
|--------------------|--|--|--|
|                    | Description                              | RUC Net Short  |  |
|                    | EDAM<br>Market<br>Participant<br>Actions | Identify the impact of the RUC Net Short functionality adjusting MW target for the RUC pass when needed. |  |
|                    | ISO Actions                              | ISO performs market optimization to mitigate RUC Net Short Conditions.                                   |  |
| 9                  | ISO Market<br>Participant<br>Actions     | N/A  |  |
|                    | Expected<br>Outcome                      | BAA ends up with enough physical capacity to operate reliably.   |  |
|                    | Anticipated<br>Settlement<br>Outcome     | Settlement RUC Awards settled based on market clearing price for RUC capacity (if offered).              |  |
|                    | Expected<br>Settlement<br>Outcome        | Charge Code: 8800, 8806, 8807, 8811, 8816, 8817  |  |



#### 6.3.10 EDAM MSS-010

| Scenario<br>Number | Structured scenario                      |  |  |
|--------------------|--|--|--|
|                    | Description                              | DAM results impact on RTM flex ramp up test and procurement  |  |
|                    | EDAM<br>Market<br>Participant<br>Actions | Identify the impact of DAM with or without under-generation infeasibility results, SIBR re-supply test and AET flag for RTM flex ramp up deployment. |  |
|                    | ISO Actions                              | Ensure market solution functioning as expected for RTM flex, resupply test, and AET.   |  |
| 10                 | ISO Market<br>Participant<br>Actions     | N/A  |  |
|                    | Expected<br>Outcome                      | Flex Ramp Up market solution functions as expected where continues to meet rising net load.  |  |
|                    | Anticipated<br>Settlement<br>Outcome     | Validate Flex Ramp Procurement Awards received as expected.  |  |
|                    | Expected<br>Settlement<br>Outcome        | Charge Code: 7070, 7071, 7076, 7077, 7078, 7081, 7087, 7088  |  |

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|   |                             | Effective Date    | 8/29       |

#### 6.3.11 **EDAM MSS-011**

| Scenario<br>Number | Structured scenario                      |   |  |
|--------------------|--|---|--|
|                    | Description                              | DAM results impact on RTM flex ramp down test and procurement                                       |  |
|                    | EDAM<br>Market<br>Participant<br>Actions | Identify the impact of DAM without overgen infeasibility results for RTM flex ramp down deployment. |  |
|                    | ISO Actions                              | Ensure market solution functioning as expected for RTM flex, resupply test, and AET.                |  |
| 11                 | ISO Market<br>Participant<br>Actions     | N/A   |  |
|                    | Expected<br>Outcome                      | Flex Ramp Down market solution functions as expected where continues to meet decreasing net load.   |  |
|                    | Anticipated<br>Settlement<br>Outcome     | Validate Flex Ramp Procurement Awards received as expected.   |  |
|                    | Expected<br>Settlement<br>Outcome        | Charge Code: 7070, 7071, 7076, 7077, 7078, 7081, 7087, 7088   |  |

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|   |  | Effective Date                   | 8/29              |

#### 6.3.12 **EDAM MSS-012**

| Scenario<br>Number | Structured scenario                      |   |  |
|--------------------|--|---|--|
|                    | Description                              | WA/CA GHG allocation in RTM   |  |
|                    | EDAM<br>Market<br>Participant<br>Actions | Demonstrate the capability of EDAM entity receive WA/CA GHG allocation, export to GHG regulation area, and enforce gross GHG attribution constraints. |  |
|                    | ISO Actions                              | N/A   |  |
| 12                 | ISO Market<br>Participant<br>Actions     | N/A   |  |
|                    | Expected<br>Outcome                      | EDAM entity receive WA/CA GHG allocation, export to GHG regulation area, and enforce gross GHG attribution constraints as expected.                   |  |
|                    | Anticipated<br>Settlement<br>Outcome     | RTM Settlements for GHG   |  |
|                    | Expected<br>Settlement<br>Outcome        | Charge Code: 491, 495   |  |

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#### 6.3.13 **EDAM MSS-013**

| Scenario<br>Number | Structured scenario                      |  |  |
|--------------------|--|--|--|
|                    | Description                              | Transient TSRs support (for TYPE 1 and TYPE 2)   |  |
|                    | EDAM<br>Market<br>Participant<br>Actions | Entity submitting CRN capacity and customer exercise/release capacity under CRN, demonstrate auto matching transfer capability and their utilization in DAM.   |  |
|                    | ISO Actions                              | ISO to ensure Transient TSR are honored during transition period into EDAM where pre-existing transmission rights are not disrupted.   |  |
|                    | ISO Market<br>Participant<br>Actions     | N/A  |  |
| 13                 | Expected<br>Outcome                      | <ul> <li>Preservation of transmission capacity for entities with valid but non-market based transmission rights.</li> <li>Ensures these entities can still schedule their energy across transmission facilities without having to offer full EDAM transmission service.</li> </ul>   |  |
|                    |  | Note: Applies to transition period until either the TSRs expire or participant converts to EDAM transmission offering.  Note: Type 1 applies to non-EDAM BAAs scheduling energy into EDAM BAAs using pre-existing transmission rights, and Type 2 applies to EDAM BAAs scheduling energy between each other across shared interfaces using legacy transmission rights that are not made fully available to EDAM. |  |
|                    | Anticipated<br>Settlement<br>Outcome     | Settlement of Transfer Revenue with appropriate SC   |  |
|                    | Expected Settlement Outcome              | Charge Code: 8011, 8411, 8470, 8811  |  |

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#### 6.3.14 EDAM MSS-014

| Scenario<br>Number | Structured scenario  |   |  |
|--------------------|--|---|--|
|                    | Description  | EDAM Access Charge for Revenue Recovery   |  |
|                    | EDAM Market Participant Actions  EDAM entity must submit all of the following:  Annually Recovery in \$  Component 1, 2, and 3  Transmission Access Cost (TAC)  True-up value (\$), Bounded Cap (\$), Transmission rat (\$/MWh), Ratio (%), and calculation (via new template purposes of Parallel Operations, Participants must complete authorized affidavit from each EDAM Transmission Service F |   |  |
| 14                 | ISO Actions  | <ul> <li>attesting accuracy of data provided by EDAM entity and reasonable effort to avoid double recovery costs through EDAM Access Charge.</li> <li>Utilize EDAM submission to calculate Access Charge Assessment for Annual True-up for Revenue Recovery</li> <li>Publish Revenue Recovery Public Values to CAISO.com</li> </ul> |  |
|                    | ISO Market<br>Participant<br>Actions   | N/A   |  |
|                    | Expected<br>Outcome  | EDAM entities recover revenue based on Access Charges   |  |
|                    | Anticipated<br>Settlement<br>Outcome   | Annual True-up for Revenue Recovery successfully assessed for EDAM entities as expected   |  |
|                    | Expected Settlement Outcome  | Charge Code: 8322, 8326   |  |

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## 6.4 Settlements Configuration Guides and Payment Calendars

DAME, EDAM, EDAM CISO BAA PR Calendar (MAPSTAGE) Jul 01, 2025 through Jan 16, 2026

Refer to the posted Settlements calendar for more information.

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## 7. Parallel Operations – Jan. 26, 2026

### 7.1 Parallel Operations Overview

- Covers testing in the STAGE environment
- STAGE is an integrated Production-like environment that is available to customers with provisioned access
- Allows customers to experience ISO release/project implementations prior to Production implementation
- Parallel Operations will allow customers and the CAISO to conduct specific market scenarios in a test environment prior to the Production activation to ensure that all system interfaces are functioning as expected and to produce simulated market results
- Customers may use STAGE to validate the interaction of customer-driven changes with the ISO systems

### 7.2 Parallel Operations Success Criteria – Live Data

 Note: ISO to provide updated criteria and most accurate quality of data after MAPSTAGE ahead of Parallel Operations Testing.

| Certificate | Success Criteria  |
|-------------|---|
| YES         | <ul> <li>Successful upon completion of connectivity testing, Integration Testing with live data, and Market Simulation Scenarios</li> <li>Successful completion of Parallel Operations Scenarios</li> </ul> |
| YES         | <ul> <li>Not successful if:</li> <li>Receiving submission or retrieval error messages. Submit CIDI and email marketsim@caiso.com for support.</li> </ul>  |
| NO          | <ul> <li>Not successful as participant cannot proceed to Parallel Operations Testing without first<br/>attaining proper provisioning</li> </ul>   |

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# 8. Activation-May 1, 2026

- Complete successful Connectivity, Integration, Market Simulation, and Parallel Operations testing ahead of expected Activation on 5/1/26
- Participants to confirm to Market Simulation team and Customer Readiness team their readiness for activation via submission of CIDI and emailing MarketSim@Caiso.com
- ISO to support participants throughout testing and thereafter for participant readiness

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| Snoping of kenewad rolote               |  | Document Version:                | 33,733,231        |
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|   | Effective Date                             | 8/29                             |                   |

## 9. ISO Market Simulation Contact

Please contact <a href="MarketSim@caiso.com">MarketSim@caiso.com</a> if you have any questions, feedback, and/or concerns about the testing and/or scenarios disclosed in this document. The ISO appreciates your partnership and participation in the Extended Day Ahead Market (EDAM).