WEIM Resource Sufficiency Evaluation Enhancement Phase 2 (RSEE2), Track 1 Pre-Market Sim Training

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Cindy Hinman, Lead Customer Readiness Trainer - Producer
April 26, 2023
Learning Objectives

- Explain how the e-tag rules will work for the CAISO BAA low-priority exports
- Define requirements and process for submitting an assistance energy designation request
RSEE Phase 2 Initiative Milestones
## WEIM RSEE2, Track 1 Milestones (On track)

<table>
<thead>
<tr>
<th>Milestone Type</th>
<th>Milestone Name</th>
<th>Dates</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Settlements Configuration Guides</td>
<td>Post draft Configuration Guides</td>
<td>05/01/2023</td>
<td>On track</td>
</tr>
<tr>
<td>External Training</td>
<td>Deliver external pre-market sim training</td>
<td>April 26, 2023</td>
<td>On track</td>
</tr>
<tr>
<td>Market Simulation</td>
<td>Market Sim Window</td>
<td>Starts May 1, 2023</td>
<td>On track</td>
</tr>
<tr>
<td>Production Activation</td>
<td>Production</td>
<td>June 1, 2023</td>
<td>On track</td>
</tr>
</tbody>
</table>
RSEE Phase 2 Track 1 Changes

- Tagging Rules
- Assistance Energy Transfer
- New Settlements Charge Codes
- OASIS & CMRI reports
Tagging Rules

E-TAG RULES FOR LOWER MARKET PRIORITY EXPORTS FROM THE CAISO
What are the CAISO Lower Market Priority Type awards?

<table>
<thead>
<tr>
<th>Priority Level</th>
<th>Markets</th>
<th>DAM</th>
<th>RTM</th>
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</thead>
<tbody>
<tr>
<td>Low Priority</td>
<td>DALPT</td>
<td></td>
<td>RTLPT</td>
</tr>
<tr>
<td></td>
<td>DAECON</td>
<td></td>
<td>RTECON</td>
</tr>
<tr>
<td></td>
<td>(DA economic exports that clear both RUC and HASP)</td>
<td>(RT economic exports that clear HASP)</td>
<td></td>
</tr>
</tbody>
</table>
What’s changing with how LPT exports from the CAISO are tagged?

- Requires low-priority exports to be e-tagged as **Firm Provisional Energy**, with a designation of the associated CAISO Real-Time Market priority

- Identifies exports with lower priority than CAISO load that can be curtailed according to existing tariff rules within each operating hour and helps with the manual curtailment in an EEA3 event

- Removes low-priority exports from inclusion in the CAISO’s upward capacity and upward flex RSE that are only scheduled in the Real-Time Market

**NOTE:**
- Low-priority exports are CAISO export self-schedules: (1) Not backed by designated non-supporting resources and (2) Exports resulting from economic bids
- Tagging as G-FP provides visibility to the Sync BA so that they know that this e-tag is backed by a low priority resource.
Example – Create individual e-tags for different Market Priority Types

The Scheduling Coordinator (SC) has market awards to export 100MW out of CAISO BAA; however, the SC has been awarded different Market Priority Types. The SC creates an individual tag for each awarded Market Priority Type. In this example the SC has created 4 E-Tags, each for 25MW that total 100MW.

<table>
<thead>
<tr>
<th>RES_ID</th>
<th>Market Priority Type</th>
<th>MW awarded</th>
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<tbody>
<tr>
<td>ABCD_MALIN500_E_F_ABCD1</td>
<td>DALPT</td>
<td>25</td>
</tr>
<tr>
<td>ABCD_MALIN500_E_F_ABCD1</td>
<td>DAECON</td>
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</tr>
<tr>
<td>ABCD_MALIN500_E_F_ABCD1</td>
<td>RTLPT</td>
<td>25</td>
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<tr>
<td>ABCD_MALIN500_E_F_ABCD1</td>
<td>RTECON</td>
<td>25</td>
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<table>
<thead>
<tr>
<th>Tag ID</th>
<th>MW Tagged</th>
<th>RES_ID</th>
<th>Generation Product Type</th>
<th>Misc. Info</th>
<th>CAISO Priority Type</th>
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<td>123ABCD</td>
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<td>ABCD_MALIN500_E_F_ABCD1</td>
<td>G-FP</td>
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<td>123EFGH</td>
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<td>ABCD_MALIN500_E_F_ABCD1</td>
<td>G-FP</td>
<td>RTECON</td>
<td></td>
</tr>
</tbody>
</table>
Accounting for Low-Priority Export’s in the CAISO BAA’s RSE Obligations

Exports are scheduled from:

- The ISO BAA based on the results of its market clearing process
- WEIM BAAs for exports they know can be supported by their own resources

For the CAISO, low-priority exports can clear the Real-Time Market based on supply from scheduling WEIM energy transfers into the CAISO

- May cause the CAISO to fail the RSE even if it has sufficient supply to meet its RSE obligations
- This occurs because the RSE does not count WEIM energy transfers into a BAA as available supply but does count a BAA’s RSE obligation for non-WEIM exports
Backed Supporting Resources - Exports be e-tagged as ‘Firm Provisional Energy (G-FP)’

According to the CAISO filed tariff:

...To accommodate curtailment of lower priority exports in the order set forth in Section 34.12.1, the CAISO will consider any schedule to export energy, other than an export backed by Generation from **non-Resource Adequacy Resource Capacity**, as **firm provisional energy**...

How is Tagging going to work?

Purchasing Selling Entity (PSE) are required to include the **G-FP** for lower CAISO Market Priority Types in the Market Path (Product field)
What is tagging going to look like?

In the **Misc Info** field, a new requirement will be included to provide the ‘CAISO Priority Type’

<table>
<thead>
<tr>
<th>Physical Path</th>
<th>Misc Info</th>
<th>Contract</th>
<th>Loss</th>
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<tbody>
<tr>
<td>Source:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CISO</td>
<td>No</td>
<td></td>
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<tr>
<td>CISO</td>
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</tr>
<tr>
<td>WALC</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>SWTC</td>
<td>No</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Misc Info</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAISO_CONTRACT</td>
<td>NONE</td>
</tr>
<tr>
<td>CAISO_PRODUCT</td>
<td>ENGY</td>
</tr>
<tr>
<td>CAISO_RES_ID</td>
<td>&lt;Enter your registered Resource ID&gt;</td>
</tr>
<tr>
<td>CAISO_PRIORITY_TYPE</td>
<td>&lt;Enter your CAISO Market Awards Priority Types with the exception of CRNs&gt;</td>
</tr>
</tbody>
</table>
Tagging Rules

CURTAILMENT DURING EMERGENCY CONDITIONS
What does LPT priority curtailment look like during Emergency Conditions?

- CAISO BAA System Operators will curtail these exports within the hour when it does not have enough resources to meet its load and reserve obligations.

- To accommodate curtailment of lower priority exports, CAISO will consider any schedule to export energy, other than an export backed by Generation from non-Supporting Resource Capacity, as firm provisional energy.
How does the operator determine which LPT to be curtailed first during emergency?

According to the CAISO proposed tariff, CAISO would curtail lower priority exports schedules in the following order:

1) Real-Time economic hourly block export schedules that cleared HASP (RTECON)

2) Real-Time Self-Schedule hourly block export schedules not backed by Generation from non-Resource Adequacy Capacity and cleared HASP (RTLPT)

3) Day-Ahead hourly block export schedules not backed by Generation from non-Resource Adequacy Capacity that also cleared HASP (DAECON)

4) Day-Ahead Self-Schedule hourly block export schedules not backed by Generation from non-Resource Adequacy Capacity and cleared HASP (DALPT)
RSEE Phase 2 Track 1 Changes

- Tagging Rules
- Assistance Energy Transfer
- New Settlements Charge Codes
- OASIS & CMRI reports
New Product

ASSISTANCE ENERGY TRANSFER
What is Assistance Energy Transfer (AET)?

- New product introduced as part of RSEE Phase 2, Track 1

- Allows WEIM BAAs (including CAISO BAA):
  - To **not** have their ETSR transfers limited (per current rules) when they fail the upward RSE Capacity and Flex upward tests
  - Access to extra supply offered by other WEIM Entities
How does it work?

• Each calendar day, the CAISO’s market validation team, will act on behalf of the CAISO BAA.

• CAISO will:
  – Review multiple calendar days ahead
  – Have the authority to submit an assistance energy designation request based specific criteria.
AET Opt-in criteria for CAISO BAA

For any hour of Day 8 that has the following, the CAISO BAA has the authority to submit an “opt-in” assistance energy designation request for day 8

A. (RA capacity + RA credits) forecast < (demand forecast + contingency reserve requirement + regulation reserve + 5% of demand forecast)

B. (net RA capacity + RA credits) forecast < (net demand forecast + contingency reserve requirement + regulation reserve + 5% of net demand forecast)

Where today is day 1:

If the CAISO BAA has the authority (through criteria “A” or “B” above) to submit an “opt-in”/”opt-out” assistance energy designation request for day 8 and day 8 is a Friday or a day that directly precedes one or more non-business days:

- Then the CAISO BAA also has the authority to submit an “opt-in”/”opt-out” assistance energy designation request for those non-business days that directly follow day 8
AET participation is optional, and comes at a cost

BAAs that opt-in to receive AETs will be subject to the WEIM Assistance Energy Transfer Surcharge when they fail the RSE

- Ex-post surcharge starting at $1000/MW
- Surcharge will be in addition to the applicable LMP cleared in the market for assistance energy transfers

Sunset by December 31, 2025
How do I opt-in to participate in AET?

Elections to opt-in must be submitted to Master File through the **Customer Inquiry, Dispute, & Information (CIDI)** application.

Access CIDI through:
- WEIM Portal
- Direct URL

WEIM Portal page:  https://weim.caiso.com/
Direct CIDI link:  https://caisocommunity.caiso.com/
CIDI Inquiry Ticket Submission

1. Submit Inquiries, Access or Maintenance

How can we help you?

Search knowledge articles and cases...

2. Select a Record Type

- Inquiry Ticket
- Application Access Request Case (AARC)
- Application Access Request Case (AARC) Submission Form
- Negotiated Rate Application
- Onboarding and Maintenance
- Reliability Coordinator Inquiry

CIDI CBT - http://content.caiso.com/training/CIDIOverview/CIDIOverview.html
Election to ‘opt-in’ or ‘opt-out’ must include:

1) Selection of the **Assistance Energy Designation Request** button
2) Specify if the request is to ‘opt-in’ or ‘opt-out’
3) Effective Start Date
4) Effective End Date

**Designation requests must be submitted by 11AM PST, at least 5 business days in advance of the effective start date.**
Example – 5 Business Day Requirement

AET Designation requests must be submitted by 11am Pacific Standard Time at least 5 business days in advance of the effective start date.

<table>
<thead>
<tr>
<th>Examples</th>
<th>M</th>
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<th>T</th>
<th>F</th>
<th>S</th>
<th>S</th>
<th>M</th>
<th>T</th>
<th>Calendar Days</th>
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<td>3-day holiday weekend</td>
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<tr>
<td>Mid-week holiday</td>
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<td>Thanksgiving weekend</td>
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<td>9</td>
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<tr>
<td>Thanksgiving weekend</td>
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<td>11</td>
</tr>
</tbody>
</table>

Legend
- ● Designation request submitted by 11am PST
- ✓ Earliest effective start date
Opting-Out of AET

- No action is needed if you do not want to opt-in

- For each BAAs participating in the WEIM, the default value in the Master File for each trading day will be “opt-out” unless an “opt-in” designation request is submitted and processed
How do we know who has elected to opt-in for AET?

CAISO BAA

A market ‘Notice’ will be sent out when the CAISO decides to opt-in for the assistance energy transfer based on the system conditions.

WEIM BAA

A new ‘Assistance’ status column will be available in BAAOP to display a list of WEIM BAAs that have elected to opt-in.
RSEE Phase 2 Track 1 Changes

- Tagging Rules
- Assistance Energy Transfer
- New Settlements Charge Codes
- OASIS & CMRI reports
New Settlements Charge Codes

CC 6476 REAL-TIME AET SURCHARGE
CC 6479 REAL-TIME AET ALLOCATION
CC 6476 - Real Time Assistance Energy Transfer Surcharge

• New charge code:
  – Calculate the RT Assistance Energy Transfer Surcharge assessed for insufficient WEIM BAAs

• Receive data for the last binding RTBS run for hour T-40, which includes the corrected data

• Settlements shall consume on an hourly basis the RTM Bid Cap ($1,000/MWh or $2,000/MWh) from the Market

Multiple镂空二向色.png
CC 6476 - Real Time Assistance Energy Transfer Surcharge

Settlements shall sub-allocate the charged Assistance Energy Transfer Surcharge cost for CAISO BAA to SCs, pro rata to their Measured Demand in relationship to CAISO BAA Measured Demand

Settlements shall allocate the charges to the Entity SC and Entity SC can sub-allocate at their discretion

For BAAs that ‘opt-out’ of AET, the applicable Real Time Assistance Energy Transfer shall be set to zero

Settlements and Billing (PRR 1492) - Configuration Guides for CC 6476 & CC 6479
CC 6479 - Real Time Assistance Energy Transfer Allocation

• New charge code:
  – Allocate assistance energy transfer revenue between WEIM BAAs that provided extra supply

• Sum of Real-Time Assistance Energy Transfer surcharge revenue that are collected from all insufficient WEIM BAAs
  – allocated to all other sufficient WEIM BAAs that have passed both RSE Capacity Test and Flexible Ramping Test
  – pro rata to their net exports beyond base transfer

• Sub-allocate surcharge revenue by CAISO to SCs providing incremental net RT imbalance energy (FMM IIE, RTD IIE and/or UIE)
  – excludes non-participating loads. (for CAISO BAAs)
Additional items to note…

- The AET Election Bill Determinant is a published in MRI-S through settlement statement files.
- The formula for the AET surcharge will be included in the Settlements & Billing BPM.
- When a WEIM BAA opts-in and if your Available Balancing Capacity (ABC) Reg up ultimately reduces your net import to 0, your surcharge quantity will be 0.
- The ABC credit does not trigger unless the surcharge is applied to the net WEIM transfers into the Balancing Authority Area. This only happens if the net WEIM transfers into the BAA are lower than the RSE failure amount.
- If your net imports are less than your failed capacity, the surcharge will be the difference between your net imports and ABC reg up (capped at 0). If your net imports are higher than your failed capacity qty then your surcharge is capped at the failed capacity quantity.
- ABC Reg up for WEIM Entities or Reg up for CAISO BAA does not count towards the Assistance Energy Transfer Quantity that is subject to a surcharge.
Questions?
RSEE Phase 2 Track 1 Changes

- Tagging Rules
- Assistance Energy Transfer
- New Settlements Charge Codes
- OASIS & CMRI reports
Open Access Same Time Information System (OASIS)

REPORT UPDATES
After go-live, 6/1, no new data for these elements will be published. However, historical pre-activation data will not be affected and will still be available via UI and API.
After go-live, 6/1, no new data for these elements will be published. However, historical pre-activation data will not be affected and will still be available via UI and API.
Open Access Same Time Information System (OASIS)

REPORT UPDATES
This report publishes the Real-Time Market Bid Cap (e.g. $1000/MWh or $2000/MWh) on an hourly basis. This information is also available in SIBR.
Changes to existing OASIS report - WEIM RSE Capacity Tests

OASIS to include data elements (Insufficiency Amount MW and Insufficiency %) from CMRI as new records to the “Data Type” field
Changes to existing OASIS report - Flexible Ramp Requirements Inputs and Outputs (WEIM RSE Flexible Ramp Tests)

OASIS to include data elements (Insufficiency Amount MW, Insufficiency %, Requirement Amount) from CMRI as new records to the “Data Type” field.
Questions?
RSEE Phase 2 Track 1
Market Simulation
Market Simulation Timeline

• Register for Market Sim by email MarketSim@caiso.com.
  – Registration deadline was April 23, 2023
    • You can still register!
  – Run the scenarios
  – Validate expected market sim scenario outcomes

• Market Sim meetings start on April 27, 2023
  – View the CAISO public calendar for full schedule

• Market Sim starts on May 1, 2023
### Structured Scenario 1 – RSEE2 T1

<table>
<thead>
<tr>
<th>Description</th>
<th>Facilitate simulation of assistance energy transfer opt-In functionality.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO Actions</td>
<td>Facilitate failure of upward capacity test and/or flexible ramping test for WEIMs signed up for market sim.</td>
</tr>
<tr>
<td>WEIM Market Participant Actions</td>
<td>1) WEIM market participants should opt-in for the assistance energy transfer functionality 2) Facilitate conditions to fail upward capacity test and/or flexible ramping test. 3) Submit ETSR Limits</td>
</tr>
</tbody>
</table>

ISO Market Participant Actions | N/A |

Expected Outcome | When opted in, allow that BAA to receive WEIM assistance energy transfer by not enforcing the BAA Import transfer limit in the base scenario. Verify the RSE failure capacities and RTM bid cap in CMRI and OASIS. |

Anticipated Settlement Outcome | Verify assistance energy transfer charges and revenue allocation |

Expected Settlement Outcome | |

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## Structured Scenario 2 – RSEE2 T1

<table>
<thead>
<tr>
<th>Description</th>
<th>Facilitate submission of G-FP Export e-Tagging.</th>
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<tbody>
<tr>
<td>ISO Actions</td>
<td>N/A</td>
</tr>
<tr>
<td>WEIM Market Participant Actions</td>
<td>Market Participants should e-tag several export resources as “Firm Provisional Energy (G-FP)”.</td>
</tr>
<tr>
<td>ISO Market Participant Actions</td>
<td>N/A</td>
</tr>
<tr>
<td>Expected Outcome</td>
<td>Market Participants verify G-FP e-tags in their own Web Smart Tag system. CAISO Operators will verify ITS for G-FP e-tags.</td>
</tr>
<tr>
<td>Anticipated Settlement Outcome</td>
<td>N/A</td>
</tr>
<tr>
<td>Expected Settlement Outcome</td>
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</tbody>
</table>
Market Simulation Questions?

Submit questions and/or concerns through the CIDI application.

Functional Environment, select: ‘Market Simulation Summer 2023’
Questions?
Recap

- Tagging rules for lower priority exports in the CAISO BAA.

- New requirement to specify the ‘Priority Market Type’ to Generation – Firm Provisional (G-FP) for lower priority e-tags.

- Assistance Energy Transfer product for WEIM BAAs and CAISO BAA

- New Charge Codes (Surcharge and revenue allocation)

- New OASIS report

- OASIS and CMRI report updates

- Market Sim unstructured scenarios.
RSEE Phase 2

REFERENCE MATERIALS
# BPM and Tariff Impacts

<table>
<thead>
<tr>
<th>Project Information</th>
<th>Details</th>
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<tbody>
<tr>
<td>BPM Changes</td>
<td>Western Energy Imbalance Market Settlements and Billing Market Instruments Market Operations</td>
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<tr>
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<th>Details</th>
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<tr>
<td>29.11</td>
<td><a href="#">Settlements and Billing for EIM Market Participants (Energy Imbalance Market)</a></td>
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<td>29.34</td>
<td><a href="#">EIM Operations (Energy Imbalance Market)</a></td>
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<tr>
<td>34.12.4</td>
<td><a href="#">Real-Time Market</a></td>
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## Impacted Systems

<table>
<thead>
<tr>
<th>Impacted Systems</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master File</td>
<td>Definition of BAA Assistance Energy Transfer Opt-in or opt-out flag</td>
</tr>
<tr>
<td>Balancing Authority rea Operations Portal (BAAOP)</td>
<td>Adding a new ‘Assistance’ column to display the status for WEIM BAAs that have ‘opt-in’ for Assistance Energy Transfer.</td>
</tr>
<tr>
<td>Settlements</td>
<td>Adding two new charge codes</td>
</tr>
<tr>
<td>Open Access System, Interface (OASIS)</td>
<td>Adding new report labeled, Market Bid Cap Modifying existing reports, ‘RSE Capacity’ and ‘Flex Ramp Results’ to include data type elements from CMRI reports.</td>
</tr>
<tr>
<td>Customer Market Results Interface (CMRI)</td>
<td>Retiring ‘Data Type’ elements from 2 existing CMRI reports.</td>
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<tr>
<td>Customer Inquiry Dispute Information (CIDI)</td>
<td>Adding new ‘Assistance Energy Designation Request’ button.</td>
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# Terms

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>AET</td>
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<td>ABC</td>
<td>Available Balancing Capacity</td>
</tr>
<tr>
<td>BAA</td>
<td>Balancing Authority Area</td>
</tr>
<tr>
<td>BAAOP</td>
<td>Balancing Authority Area Operations Portal</td>
</tr>
<tr>
<td>CMRI</td>
<td>Customer Market Results Interface</td>
</tr>
<tr>
<td>EEA3</td>
<td>Energy Emergency Alert 3</td>
</tr>
<tr>
<td>G-FP</td>
<td>Generation-Firm Provisional</td>
</tr>
<tr>
<td>LPT</td>
<td>Low Priority Tag</td>
</tr>
<tr>
<td>OASIS</td>
<td>Open Access Same Time Information System</td>
</tr>
<tr>
<td>RSEE2</td>
<td>Resource Sufficiency Evaluation Enhancement Phase 2</td>
</tr>
<tr>
<td>SIBR</td>
<td>Scheduling Interface Business Rule</td>
</tr>
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Resources

WEIM resource sufficiency evaluation enhancements policy initiative page

Market Sim Structure Scenarios

Business Requirements Specifications

https://bpmcm.caiso.com/Pages/BPMLibrary.aspx

Readiness Note

WEIM resource sufficiency overview training – presentation (located on WEIM Portal > Readiness/Training)
Resources (Continued)

Customer Inquiry, Dispute and Information User Guide  

Settlements and Billing– Proposed Revision Request (PRR): 1492  
https://bpmcm.caiso.com/Pages/ViewPRR.aspx?PRRID=1492&IsDlg=0

Western Energy Imbalance Market BPM – Proposed Revision Request (PRR): 1498  
https://bpmcm.caiso.com/Pages/ViewPRR.aspx?PRRID=1498&IsDlg=0

Market Instruments – Proposed Revision Request (PRR): 1500  
https://bpmcm.caiso.com/Pages/ViewPRR.aspx?PRRID=1500&IsDlg=0

RSE Phase 1 Readiness notes  

RSE Phase 1 presentation (locate in the WEIM Portal)  

SIBR - Scheduling Coordinator Users Guide (Section 3.1.5 for Bid information on Supporting Resources)  
Still have questions?

Submit an inquiry ticket in CIDI https://portal.caiso.com/

If you do not have CIDI access, submit inquiries in ‘ContactUs’ at www.caiso.com

Submit an email ‘CustomerReadiness@caiso.com’

Thank you for your participation!