Reliability Demand Response Resource Bidding Enhancements – Track 2

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August 30, 2022

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INTRODUCTION
Housekeeping

Make sure to keep yourself muted unless you have a question.

If you have a question, you may either ask over the phone or in the chat.

If you want to ask a question, you can virtually “raise your hand” in WebEx.
In today’s session we’ll cover:

- **Background** (10 min)
- **Pmin Re-rate** (15 min)
- **Exemption from 100 MW Limit** (15 min)
- **Market Sim Scenario** (10 min)
- **Wrap Up** (5 min)
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What is the Reliability Demand Response Resource program (RDRR)?

• In June 2014 Investor Owned Utilities were required to transition their CPUC-approved retail emergency-triggered demand response (DR) programs to an ISO reliability demand response product
• Enables the ISO to dispatch the emergency-triggered DR programs when and where they are needed
• This program is triggered when there is an EEA2 declaration

To learn more about the Summer Preparedness 2022 initiative visit:
2022 RDRR Bidding Enhancements

Track 1
Updated bidding rules to cover situations when the bid cap increased from $1,000 to $2,000

Production Date – June, 2022

Track 2
Addresses infeasible dispatch situation
Raises discrete dispatch option to 100 MW limit

Scheduled Production Date – November 1, 2022

For more information about the RDRR Bidding Enhancements Initiative visit: https://stakeholdercenter.caiso.com/StakeholderInitiatives/Reliability-demand-response-resource-bidding-enhancements
What will change with RDRR Enhancements Track 2?

- Implement Pmin re-rate to mitigate infeasible discrete RDRR dispatch in real-time
- Increase registration cap for discrete RDRRs

What does “discrete” mean?
Dispatch Options: Discrete and Continuous

Discrete

Continuous
Q&A
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5. **Wrap Up** (5 min)
Example: Infeasible Discrete Dispatch
Example: Pmin Re-rate mitigates the impact of infeasible dispatch
Example: Minimum Load Cost for hour ending 17

Bid price x Re-rated Pmin = Minimum load cost
$950 \times 5.9 \text{ MW} = $5,605

Depending on costs and revenues over the entire day, this Scheduling Coordinator may be eligible for bid cost recovery.
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I need the discrete dispatch option but my resource is larger than 100 MW. What do I do?

Meet the criteria

- The RDRR is located at a single site;
- The RDRR’s underlying load cannot be safely or operationally split and
- The RDRR is unable to operate continuously based on the source of load providing curtailment

Request an exemption

- Demand Response Provider submits a CIDI ticket
  - Subject Line: Demand Response Attestation
  - See Attachment H of the Demand Response BPM

ISO will review

- If approved, the ISO will update the Master File
- The CIDI ticket will be closed
- Allow 10 business days for approval
Demand Response Attestation

RDRR Discrete Dispatch Real Time Dispatch Above 100 MW

I, [Title, Department, Demand Response Provider], with my knowledge and experience given my position with [Demand Response Provider], am requesting:

1. A new registration above 100 MW for [Resource ID]
   OR
2. An increase of an existing RDRR to [Resource ID] from below 100 MW to now be over 100 MW as: [New MW]
   OR
3. An increase by 50 MW or greater to a previously approved RDRR value above 100 MW for [Resource ID] to [New MW value]. On [insert date] in CIDI ticket no. [CIDI ticket number], the RDRR received an approved value of [Approved MW value].

For updates to more than one resource, please attach an excel file.

I attest to the following regarding the discrete RDRR I am requesting:

1. The RDRR is located at a single site;
2. The RDRR cannot safely or operationally be split into multiple loads;
3. The RDRR does not the ability to operate under the Marginal Real-Time Dispatch Option.

I declare under penalty of perjury pursuant to 28 USC 1746 and the laws of the State of California that, to the best of my knowledge, the foregoing is true and correct. Executed on [month, day, 20_] (“Execution Date”).

Demand Response Provider

By: __________________________________________

[Name, Title, Demand Response Provider]
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What do I need to do to participate in the market simulation?

• Market simulation dates:
  – Connectivity: **August 22, 2022**
  – Market simulation scenario: **September 29, 2022**

• Register your request to participate in the RDRR Enhancements market sim
  – Request inbox - **MarketSim@caiso.com**
  – Request deadline - **August 12, 2022**

To review the RDRR Bidding Enhancement Market Simulation Document visit:
<table>
<thead>
<tr>
<th>Scenario Number</th>
<th>Description</th>
<th>ISO Actions</th>
<th>EIM Market Participant Actions</th>
<th>ISO Market Participant Actions</th>
<th>Expected Outcome</th>
<th>Anticipated Settlement Outcome</th>
<th>Expected Settlement Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Submit Competitive Bids by Discrete RDRRs’ SCs</td>
<td>CAISO Operators declare EEA2 stage where discrete RDRRs are dispatched</td>
<td>N/A</td>
<td>SCs of the discrete RDRRs submit competitive bids.</td>
<td>Follow the results in the sink systems to verify commitment, dispatch, and settlements of discrete RDRRs</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Market Sim Recommendations

Submit bids
• SIBR - Submit bids for your Discrete RDRR that are within 95% of the $1,000 bid cap

Review market outcome
• ADS - Validate dispatch information
• CMRI – Review Outcomes
  – Real-time Dispatch Schedules
  – Expected Energy
  – ISO Commitment Cost Details
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Action Items

- Submit attestation via CIDI, if applicable

- Register for the market simulation – it’s past the deadline, so email the market sim team ASAP

- Review the market simulation scenario

- Participate in the market simulation

- Ask questions if necessary
  - Participate in market sim meetings
  - Submit a CIDI ticket
    - Functional environment is “Market Simulation Fall 2022”
Final Q&A
Resources

RDRR Bidding Enhancements Stakeholder Process Documents

RDRR Bidding Enhancements Release Planning Documents
Thank you for your participation!

For more detailed information on anything presented, please visit our website at:

www.caiso.com

Or send an email to:
CustomerTraining@caiso.com