



California ISO

# Reliability Demand Response Resource Bidding Enhancements – Track 2

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# INTRODUCTION

# Housekeeping



Make sure to keep yourself muted unless you have a question

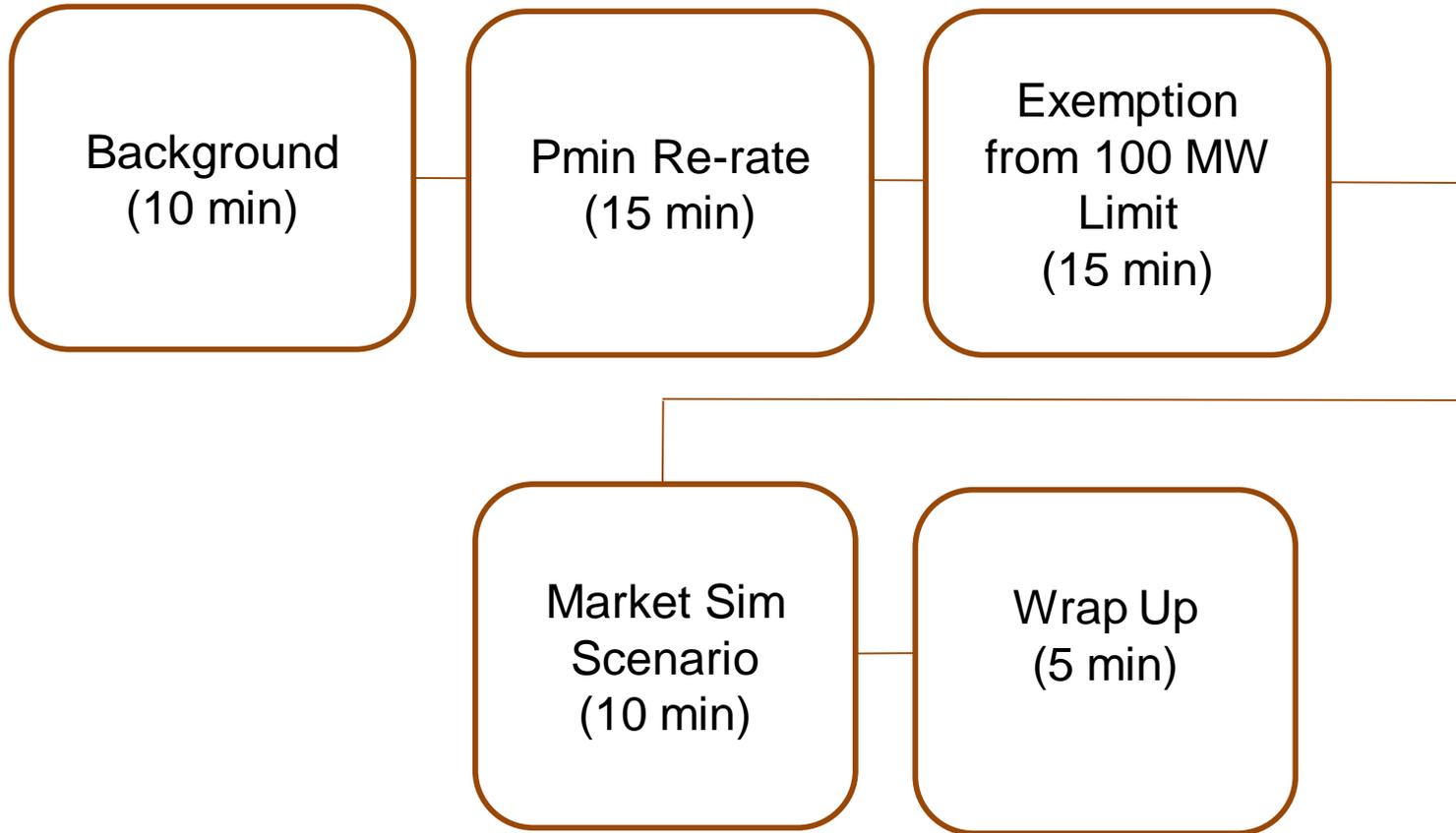


If you have a question, you may either ask over the phone or in the chat

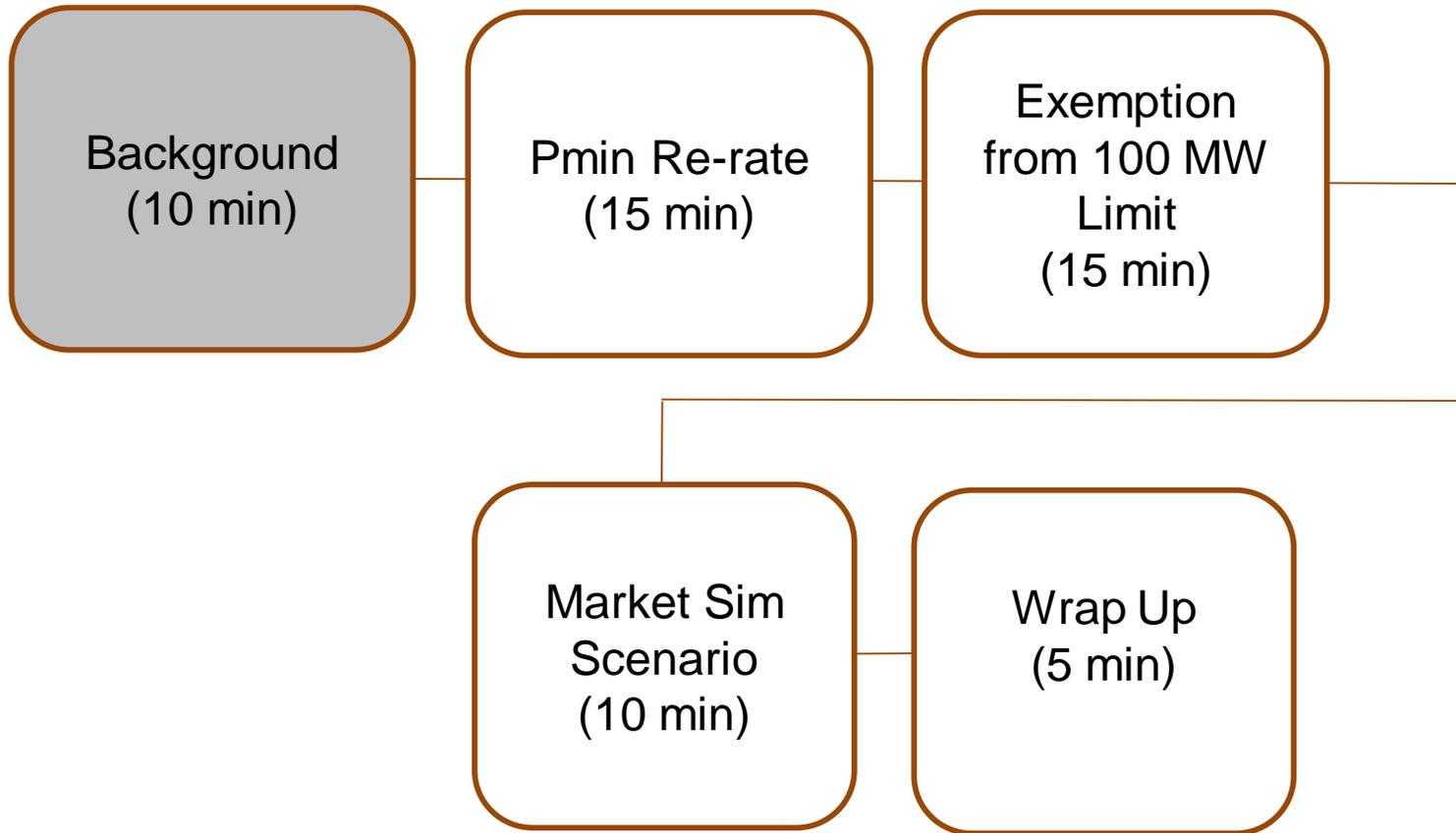


If you want to ask a question, you can virtually “raise your hand” in WebEx

# In today's session we'll cover:



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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 :  
<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

# 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 :

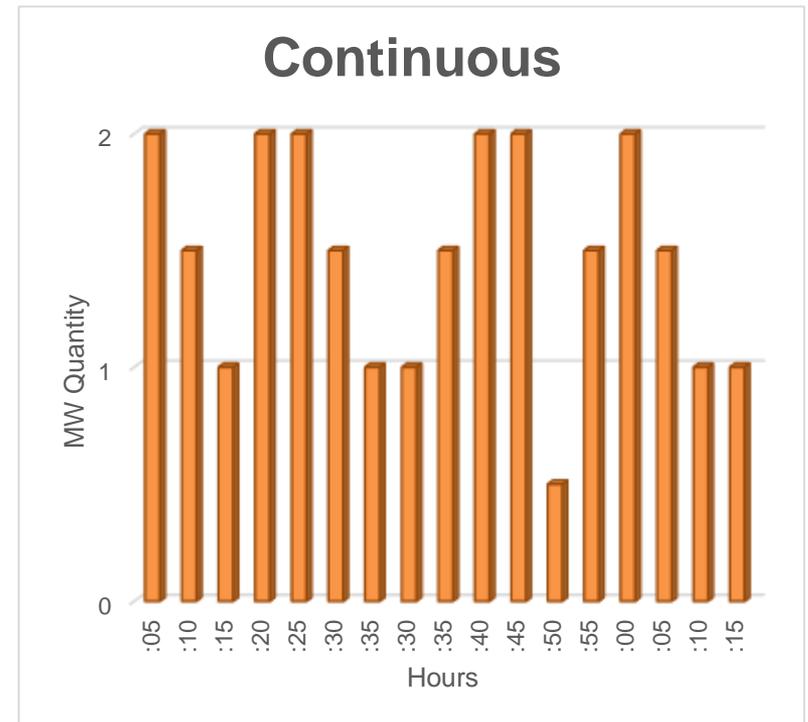
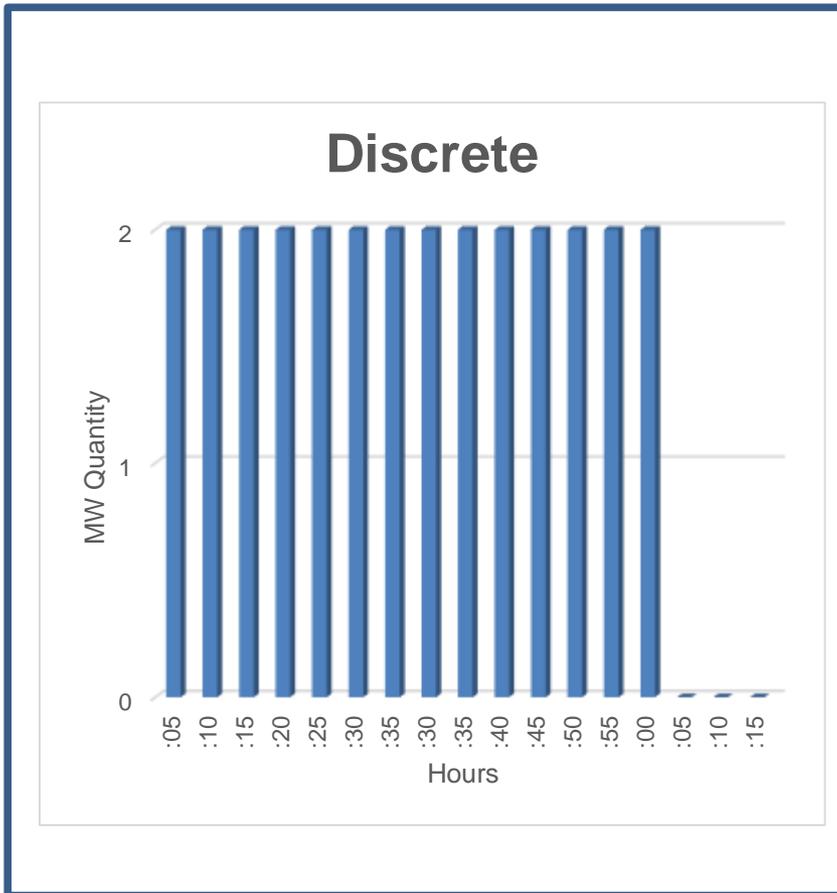
<https://stakeholdercenter.caiso.com/StakeholderInitiatives/Reliability-demand-response-resource-bidding-enhancements>

# 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

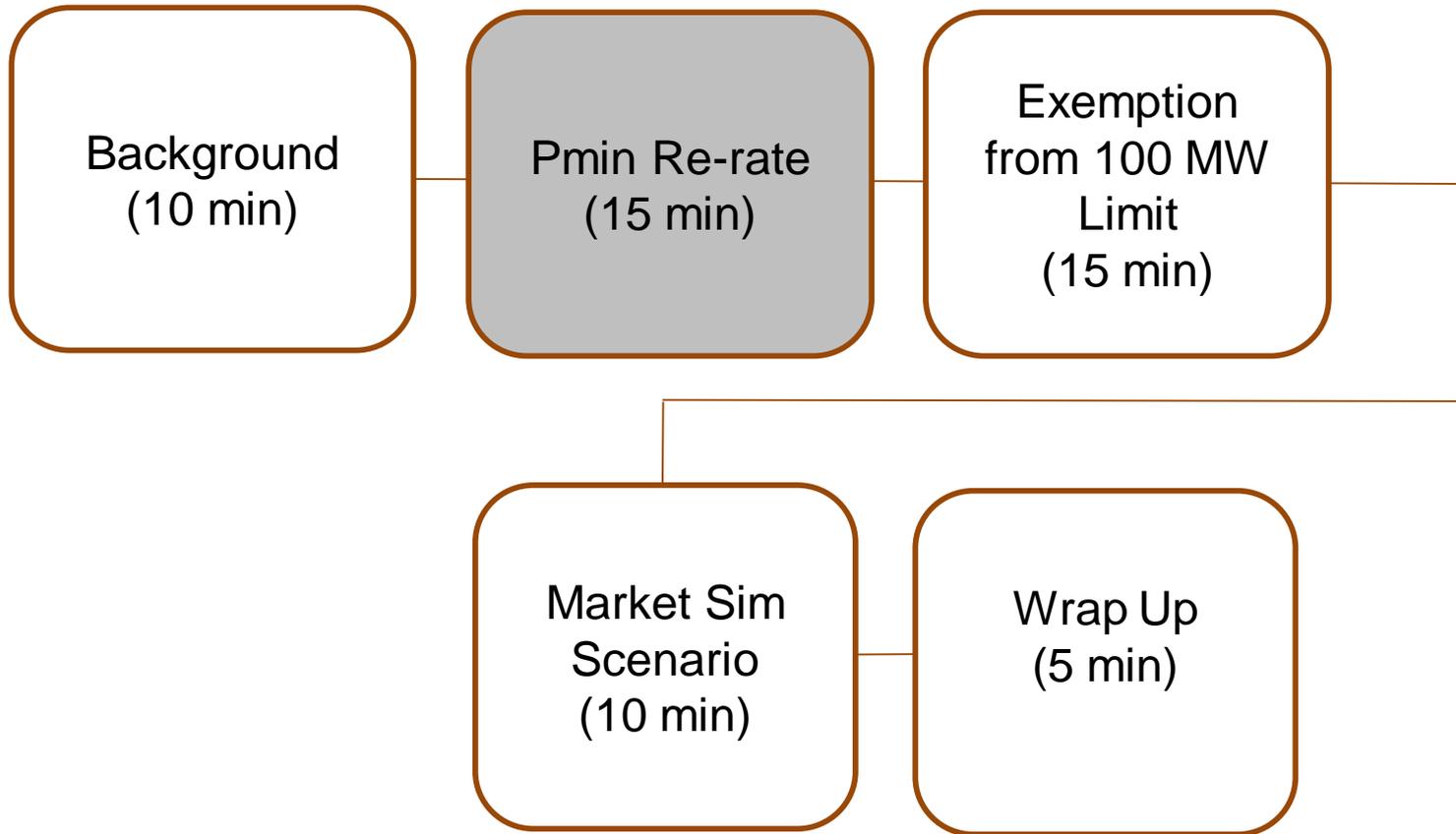
**What does “discrete” mean?**

# Dispatch Options: Discrete and Continuous

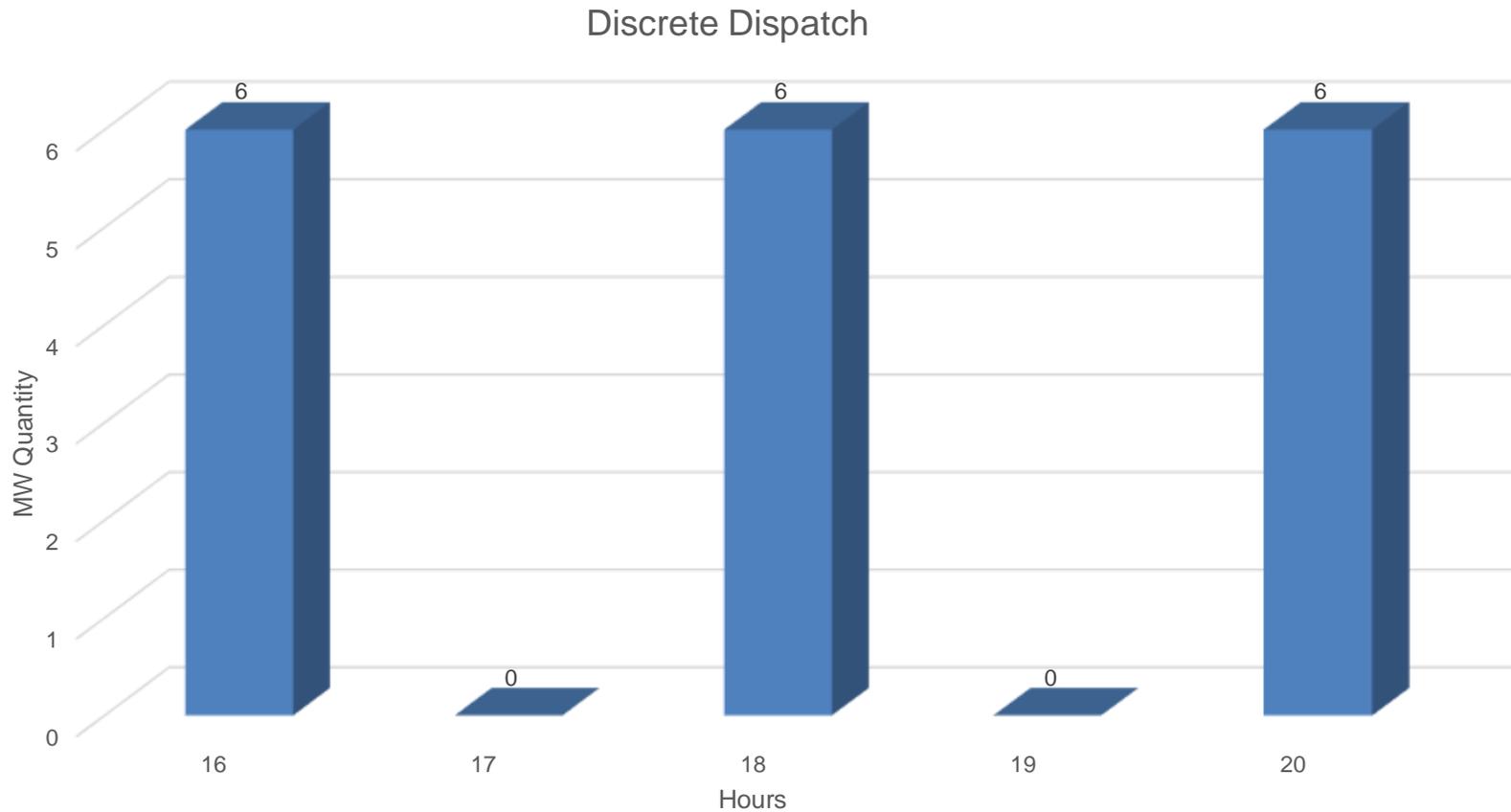


# Q&A

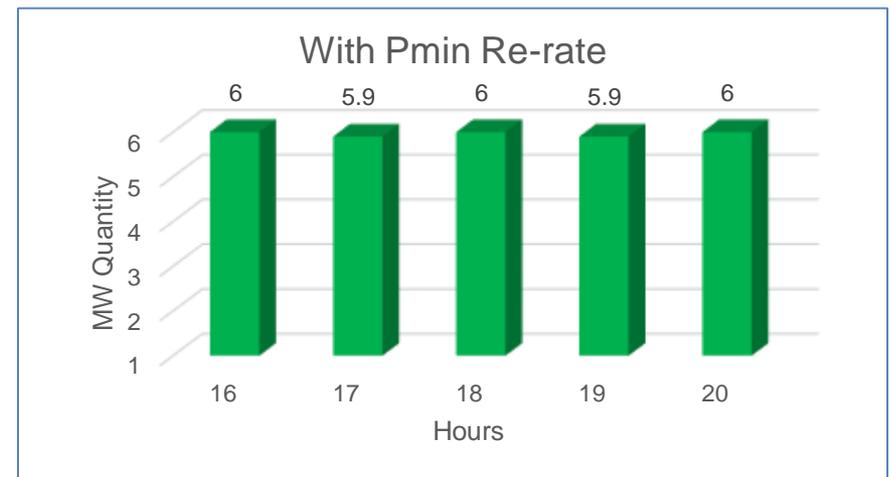
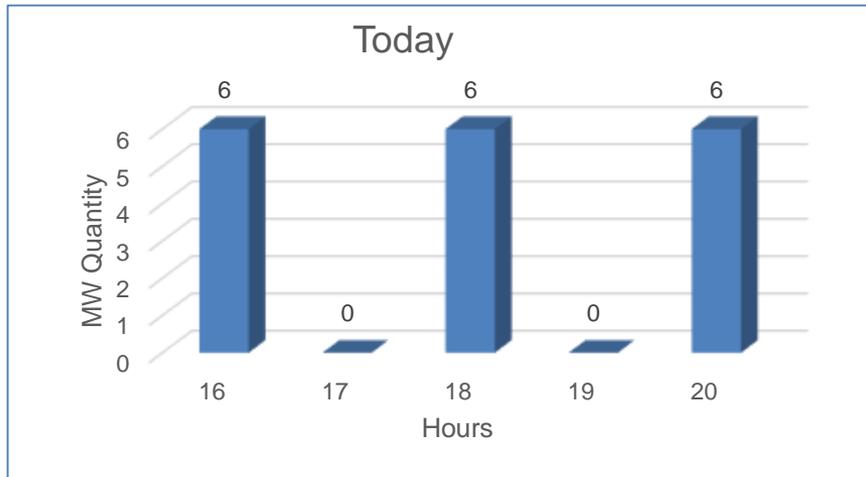
# In today's session we'll cover:



# Example: Infeasible Discrete Dispatch



# Example: Pmin Re-rate mitigates the impact of infeasible dispatch



## Example: Minimum Load Cost for hour ending 17

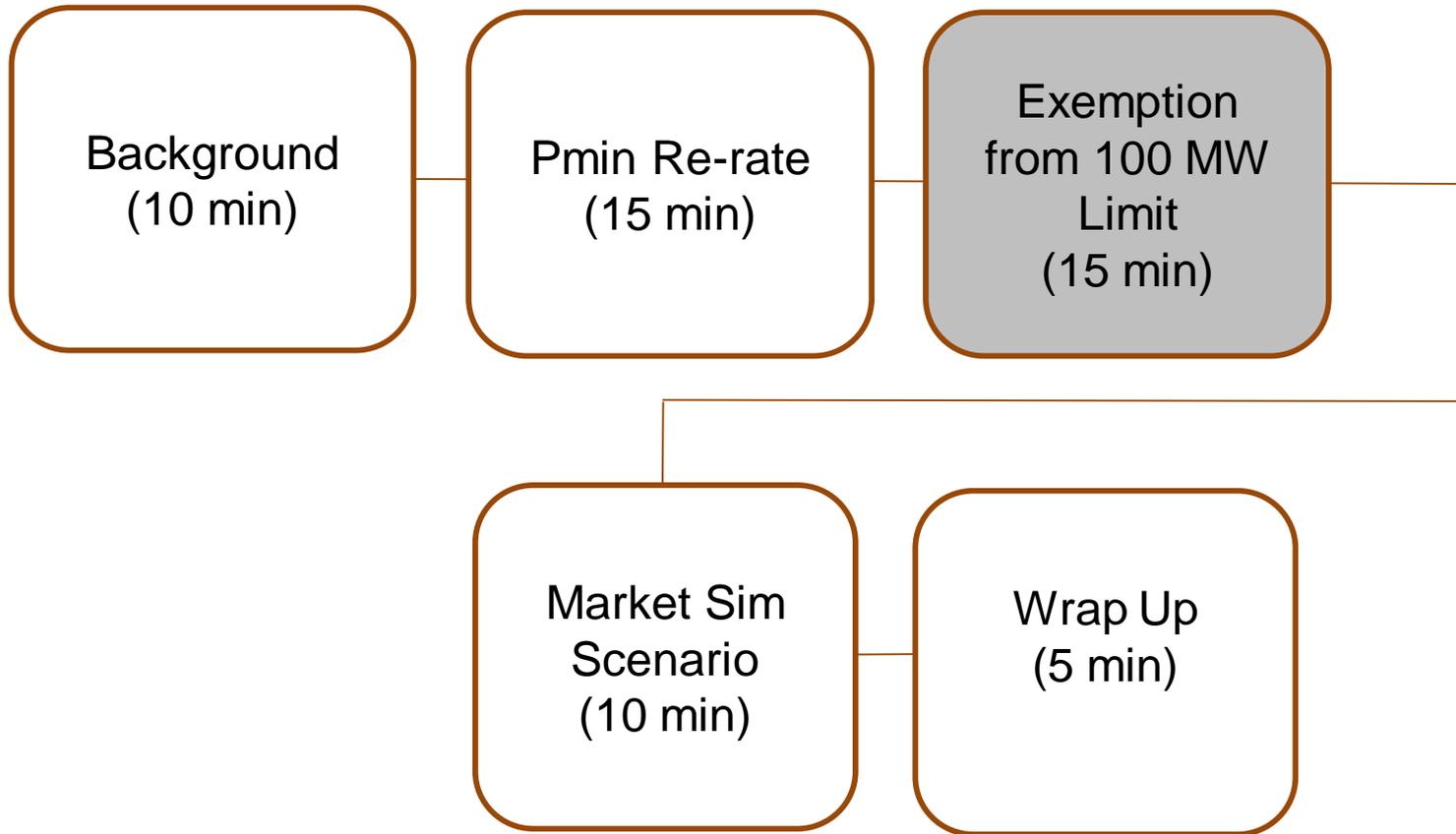
$$\begin{aligned} \text{Bid price} \times \text{Re-rated Pmin} &= \text{Minimum load cost} \\ \$950 \times 5.9 \text{ MW} &= \$5,605 \end{aligned}$$

Depending on costs and revenues over the entire day, this Scheduling Coordinator may be eligible for bid cost recovery.



# Q&A

# In today's session we'll cover:



# 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

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").

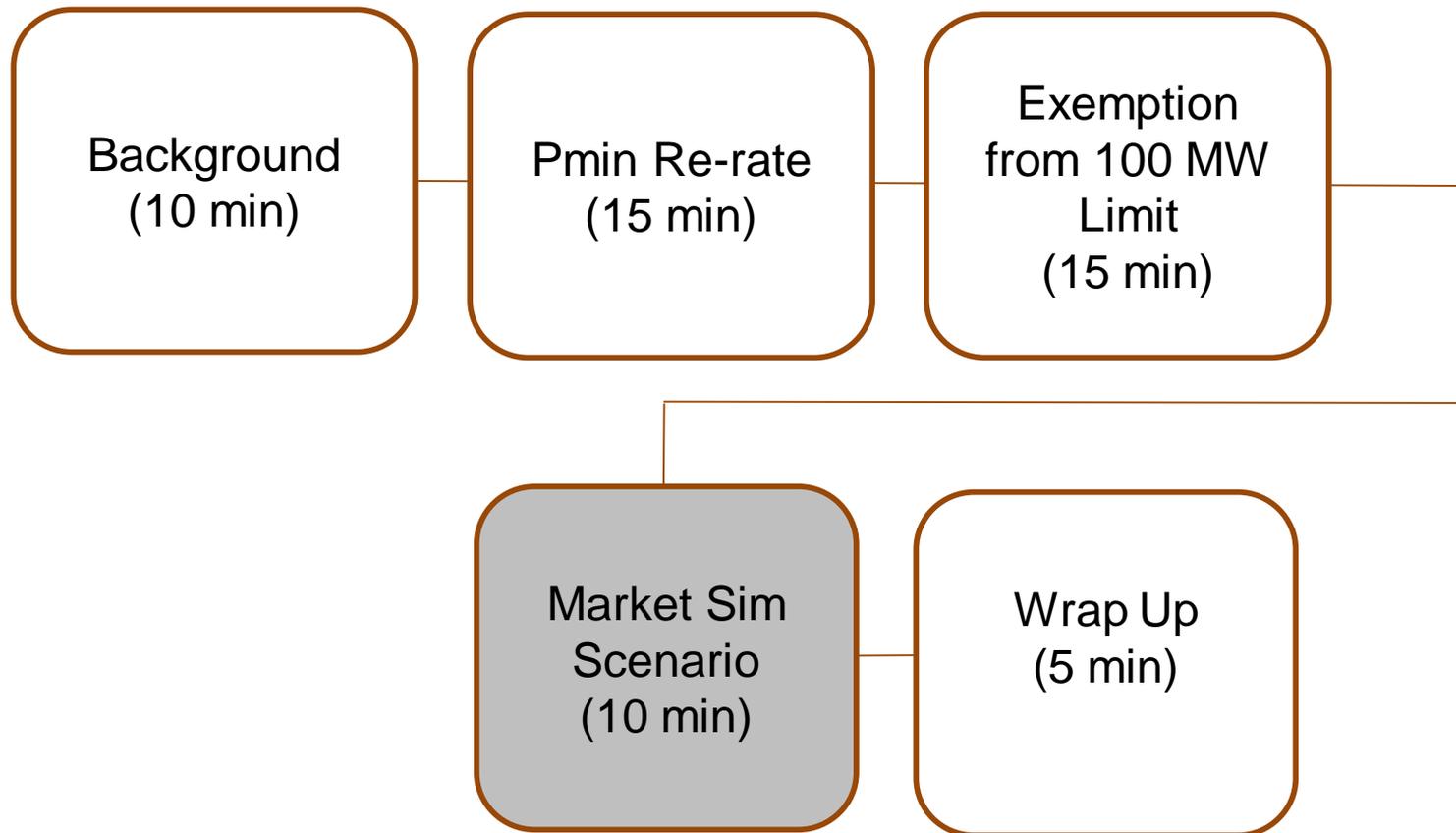
Demand Response Provider

By: \_\_\_\_\_

[Name, Title, Demand Response Provider]

# Q&A

# In today's session we'll cover:



# 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 :  
<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

Scenario Number	Scenario Execution Trade Date: TBD	
1	Description	Submit Competitive Bids by Discrete RDRRs' SCs
	ISO Actions	CAISO Operators declare EEA2 stage where discrete RDRRs are dispatched
	EIM Market Participant Actions	N/A
	ISO Market Participant Actions	SCs of the discrete RDRRs submit competitive bids.
	Expected Outcome	Follow the results in the sink systems to verify commitment, dispatch, and settlements of discrete RDRRs
	Anticipated Settlement Outcome	N/A
	Expected Settlement Outcome	N/A

# Market Sim Recommendations

## Submit bids

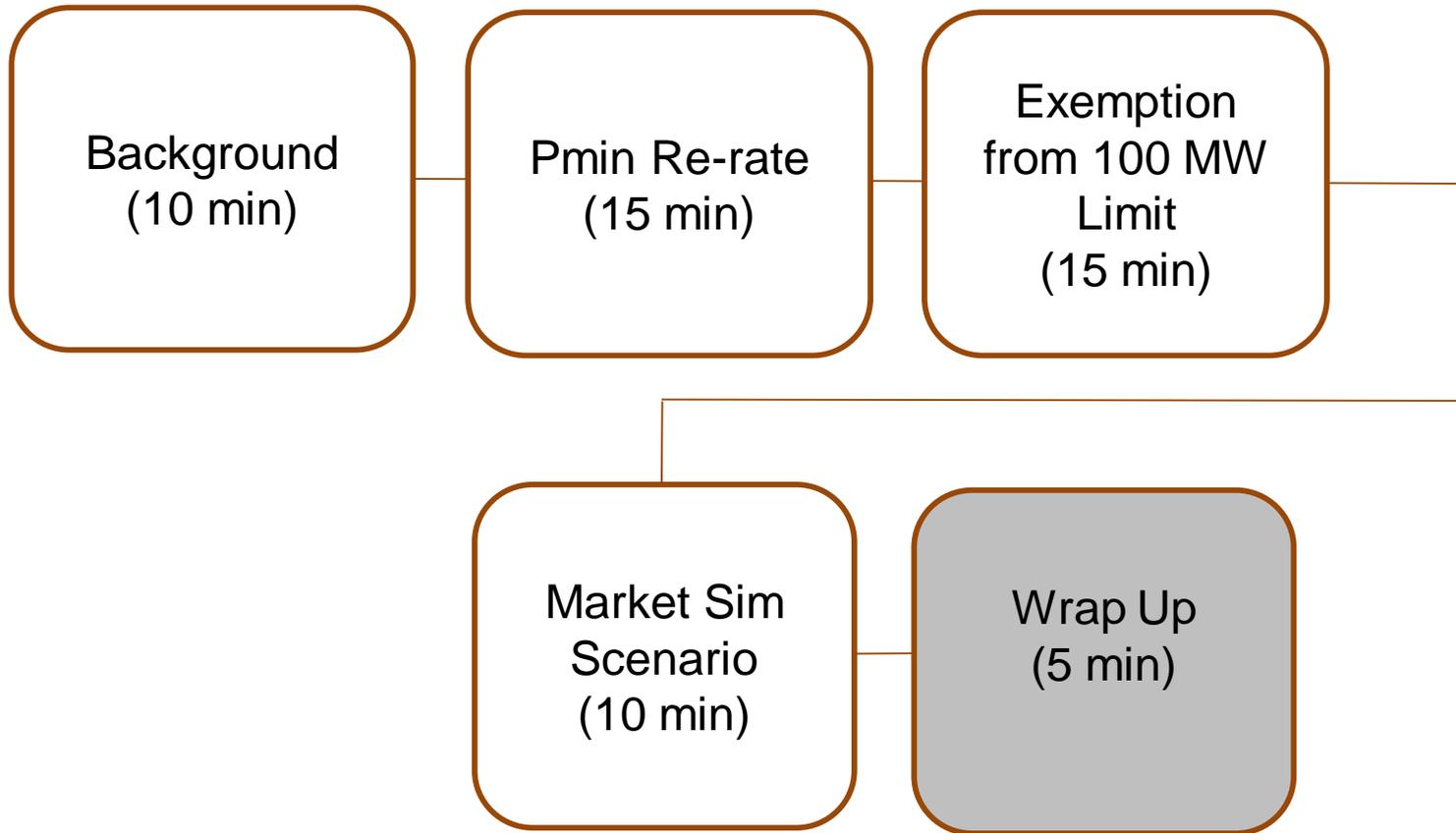
- SIBR - Submit bids for your Discrete RDRR that are within 95% of the \$1,000 bid cap

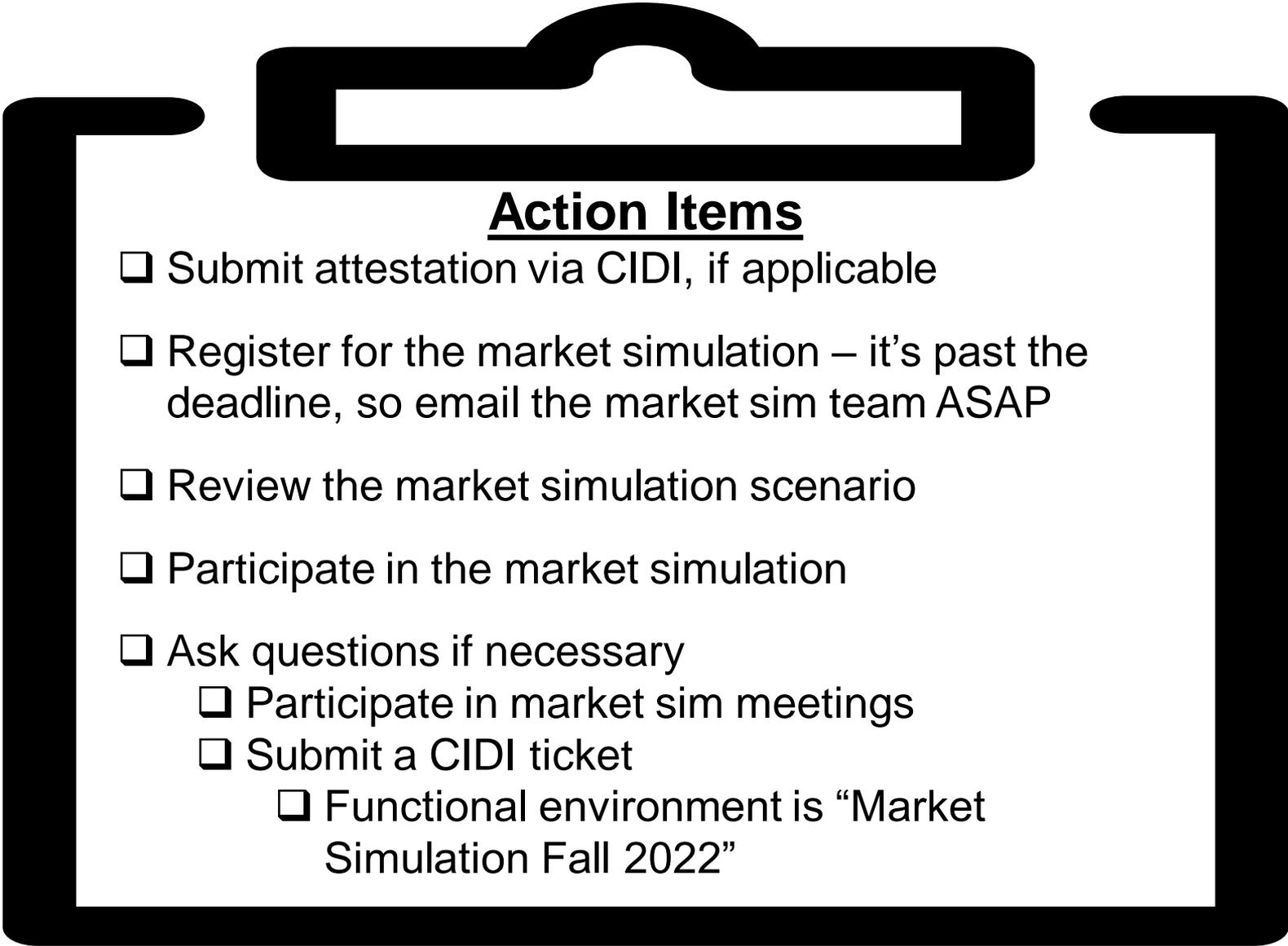
## Review market outcome

- ADS - Validate dispatch information
- CMRI – Review Outcomes
  - Real-time Dispatch Schedules
  - Expected Energy
  - ISO Commitment Cost Details

# Q&A

# In today's session we'll cover:



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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

- <https://stakeholdercenter.caiso.com/StakeholderInitiatives/Reliability-demand-response-resource-bidding-enhancements>

## RDRR Bidding Enhancements Release Planning Documents

- <http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>



**Thank you for your participation!**

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

[www.caiso.com](http://www.caiso.com)

Or send an email to:  
CustomerTraining@caiso.com