



## Extended Day-Ahead Market Working Group 1: *Supply Commitment and Resource Sufficiency Evaluation*

### *Resource Sufficiency Evaluation details*

Facilitator: Mark Richardson

Scribe: Bob Kott

January 24, 2022

Meeting Cadence: Mondays and Wednesdays, 1 – 3 p.m.

# Agenda:

Time:	Topic:	Presenter:
1:00 – 1:05	Welcome/introductions	Kristina Osborne
1:05 – 2:50	Continued discussion on resource qualification and RSE counting details	Mark Richardson
2:50 – 2:55	Recap of discussion	Bob Kott
2:55 – 3:00	Upcoming topics	Mark Richardson

## Reminders:

- These collaborative working groups are intended to foster open dialogue and sharing of ideas and perspectives
- Please raise your hand if you have a question or comment at any time during the meeting and the facilitator will call on you
  - Please start by stating your name and affiliation
- Meetings are recorded and video files posted on corresponding working group webpages
- Stakeholders are welcome to present perspectives at these meetings
  - Please submit a request to present using the link located on the EDAM Resources slide at the end of this presentation

# Today's Objectives

- Continue discussion on relevant RSE Scope topics
  - What are the types and characteristics of resources that will qualify for showing resource sufficiency

# Discussion – Resource Sufficiency Scope topics

- Qualification and counting of resources that are modeled and within EDAM BAA
  - Ex; Conventional resources, Hydro, Energy Storage, Variable Energy Resources, Multi-Stage Generator
  - 3<sup>rd</sup> party non-contracted supply
  - Demand Response

# Hydro Qualification & Counting

- Hydro Resource W
  - 25 mw pmax
  - 200 mw/h daily energy limit
- Given the above resource can only operate at pmax for a total of 8 hours, what makes sense from a counting standpoint to credit this resource towards the RSE?
  - 25 MW for all hours?
  - Require the scheduling coordinator to respect the daily energy limit through bids?

# Energy Storage Qualification & Counting

- Battery Resource B
  - 50 mw pmax
  - 200 mw/h Max Storage Capability (4 hour battery)
- Given the above resource can only operate at pmax for a total of 4 hours, what makes sense from a counting standpoint to credit this resource towards the RSE?
  - 50MW for all hours?
  - Should a EDAM entities requirements be increased to reflect expected charging?

# Variable Energy Resources – Solar & Wind Qualification & Counting

- Solar Resource S
  - 100 mw pmax
  - DA Forecast shows resource is; ramping up HE6 – 10, full capacity HE11 – 16, ramping down HE17 – 19
- Wind Resource W
  - 50 mw pmax
  - DA Forecast shows resource is; ramping up HE3 – 4, full capacity 50mw HE4 – 6, variable outputs HE16 – 18
- Does the full forecast qualify to be counted towards RSE?
- What if only a fraction of the forecast is actually bid in?



# MSG Resource Qualification & Counting

- Gas Resource M
  - 3 configurations
    - Config 1 = 10 – 100mw
    - Config 2 = 105 – 200mw
    - Config 3 = 175 – 300mw
  - Transition time 30minutes
  - Forbidden regions
  - Overlapping configurations
- Given the above resource has a forbidden region, overlapping configurations, and transition times, what makes sense from a counting standpoint to credit this resource towards the RSE?

# Hybrid - Qualification & Counting

- Hybrid Resource H
  - Pmin 0
  - Pmax 100
  - Solar Resource
    - 100 mw pmax
    - DA Forecast shows resource is; ramping up HE6 – 10, full capacity HE11 – 16, ramping down HE17 – 19
  - Battery Resource
    - +/- 25mw charging/discharging capability
    - 100mw/h MAX SOC

# Conventional Resource Qualification & Counting

- Gas Resource G
  - 100 mw pmax
  - 1 daily start
- Given the above resource can only operate at pmax for the full day, what makes sense from a counting standpoint to credit this resource towards the RSE?
  - Does the single daily start characteristic limit how this resource is counted?

# Additional Considerations

- Demand Response programs
  - Many entities have demand response programs that do not qualify to be modeled as a resource under existing rules; how should this supply be accounted for
- Uncontracted 3<sup>rd</sup> party supply
  - How should uncontracted 3<sup>rd</sup> party supply offered into the market be considered for purposes of RSE?

# Check In

- Continue discussion on relevant RSE Scope topics
  - What are the types and characteristics of resources that will qualify for showing resource sufficiency
- Next Steps

# Questions?

# EDAM Resources

- List of [\*Common EDAM design principles and concepts\*](#)
- Initiative and working webpages:
  - EDAM initiative webpage:  
<https://stakeholdercenter.caiso.com/StakeholderInitiatives/Extended-day-ahead-market>
  - Working Group 1 webpage:  
<https://stakeholdercenter.caiso.com/StakeholderInitiatives/Extended-Day-Ahead-Market-Working-Group-1-Supply-Commitment-Resource-Sufficiency-Evaluation>
    - The working group webpages include meeting materials, initial scope items, and weekly summary reports
- Please submit EDAM WG inquiries and/or requests to present at <https://www.surveymonkey.com/r/EDAMWG-Inquiries>
  - Presentations due 5 business days prior to the meeting where they are scheduled to present, if time allows
- [Register](#) for working groups to help the ISO gauge interest and facilitate communication throughout process.
- Nov 30, 2021 Day-Ahead Market Overview Training: <https://youtu.be/lbXRsfVbCg>