



# Extended Day-Ahead Market Working Group 2: *Transmission Commitment and Congestion Rent Allocation*

Facilitator: Deb Le Vine

Scribe: Emily Hughes

February 15, 2022

Meeting Cadence: Tuesdays and Thursdays, 9 – 11 a.m.

## 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

# Agenda:

<b>Time:</b>	<b>Topic:</b>	<b>Presenter:</b>
9:00 - 9:05	Welcome/introductions	Kristina Osborne
9:05 - 9:10	Today's Objectives	Deb Le Vine
9:20 – 10:55	EDAM – Transfer Transmission Rights	Milos Bosanac
10:55 - 11:00	Upcoming topics	Deb Le Vine

# Today's Objectives

- Examples of transfer transmission rights for Bucket 1 and 3
  - EDAM to EDAM BAAs
- Examples of transmission transactions Bucket 1 and 3
  - Non-EDAM to EDAM BAAs imports and exports
- Bucket 2 compensation discussion



California ISO

# EDAM – Transfer Transmission Rights

ISO PUBLIC

COPYRIGHT © 2022 by California ISO. All Rights Reserved



California ISO

# Bucket 1 Transmission

ISO PUBLIC

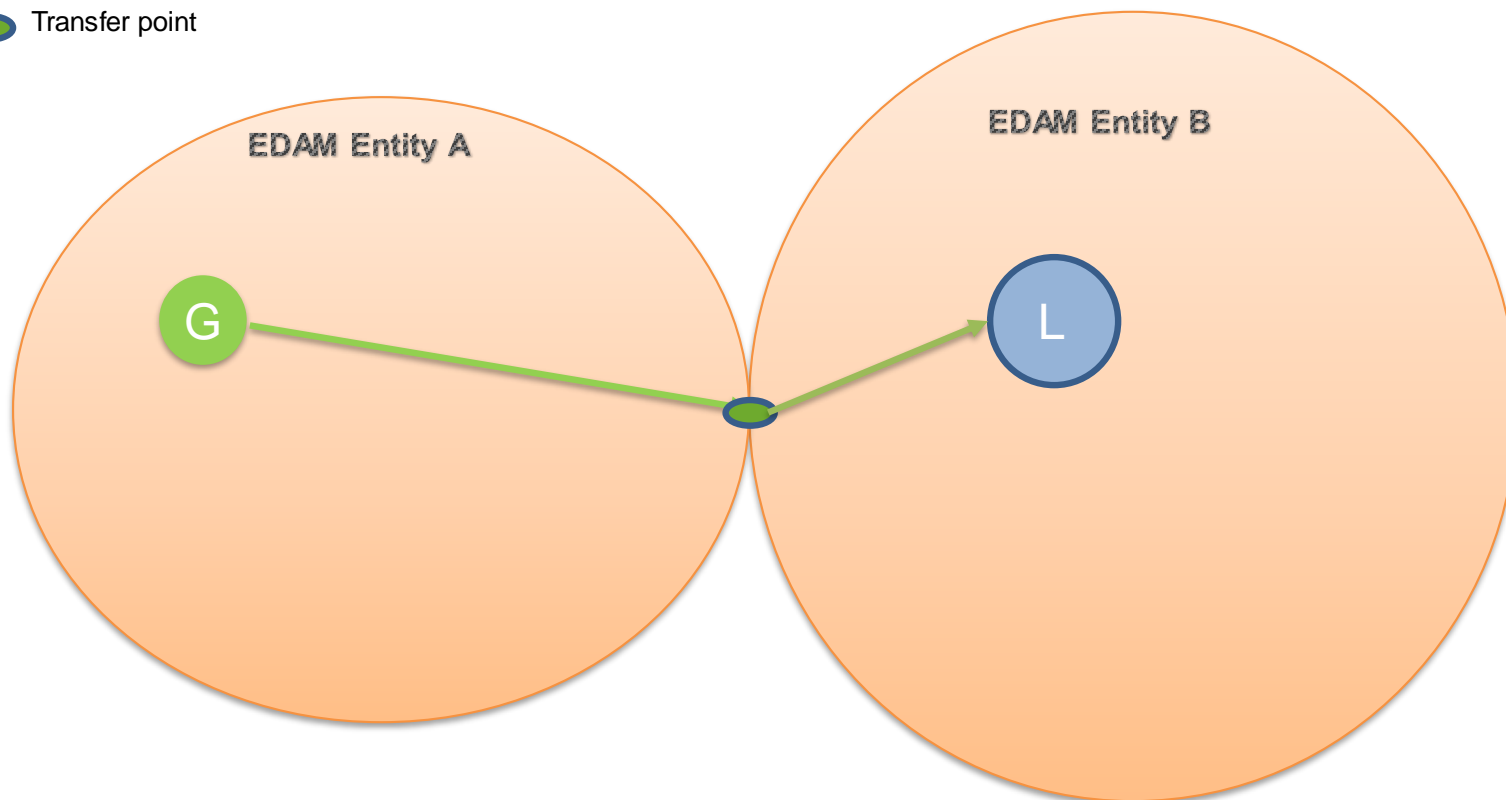
COPYRIGHT © 2022 by California ISO. All Rights Reserved

# Bucket 1 Transmission Characteristics

- Consists of transmission rights, at transfer points between EDAM BAAs, supporting capacity used to demonstrate resource sufficiency (RSE).
  - Can be OATT rights or legacy agreements.
- Consists of firm or conditional firm transmission rights.
  - Supports reliable, dependable, EDAM transfers.
- The amount of Bucket 1 transmission made available to EDAM is dependent upon the amount of capacity used for the RSE that is delivered across transfer points between EDAM BAAs.
- Bucket 1 transmission used to support EDAM transfers is not further compensated through EDAM as the transmission has already been paid for through the reservation. However, eligible for congestion revenue allocation.

# Bucket 1 – Transfers Between EDAM Entity Areas

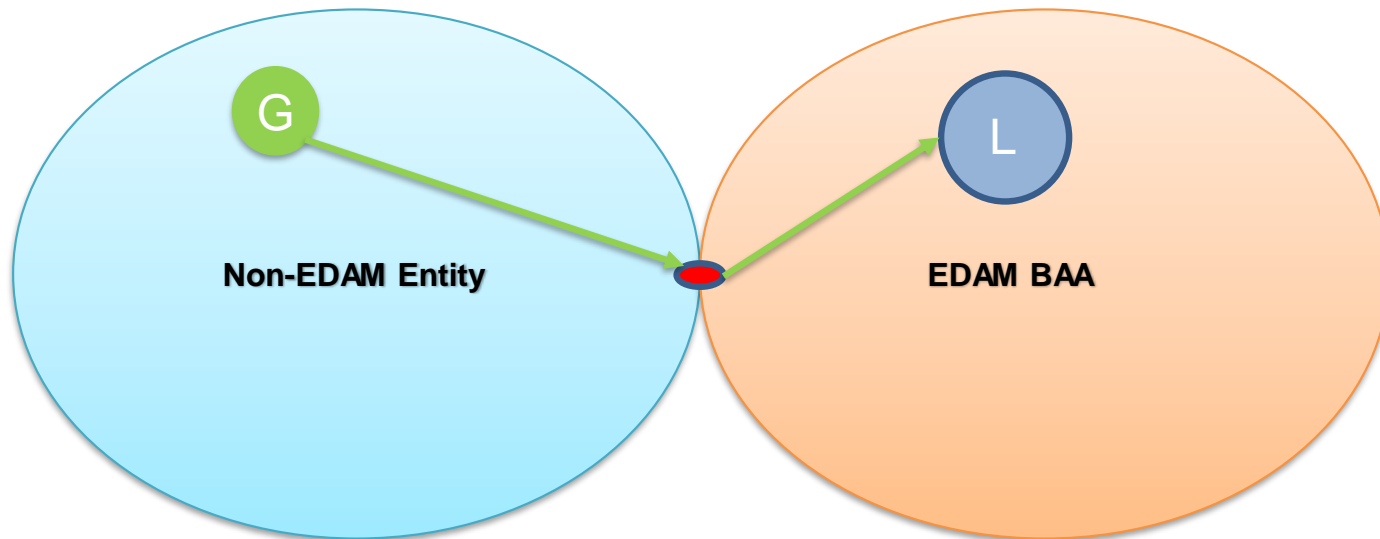
 Transfer point



- EDAM Entity B is relying on import from adjacent EDAM Entity A for demonstrating resource sufficiency.
- Transmission across transfer point between Entity A and B – 100 MW – is then Bucket 1 transmission demonstrating Entity B resource sufficiency.



# No Bucket 1 Transmission Between EDAM Entity and Non-EDAM Areas



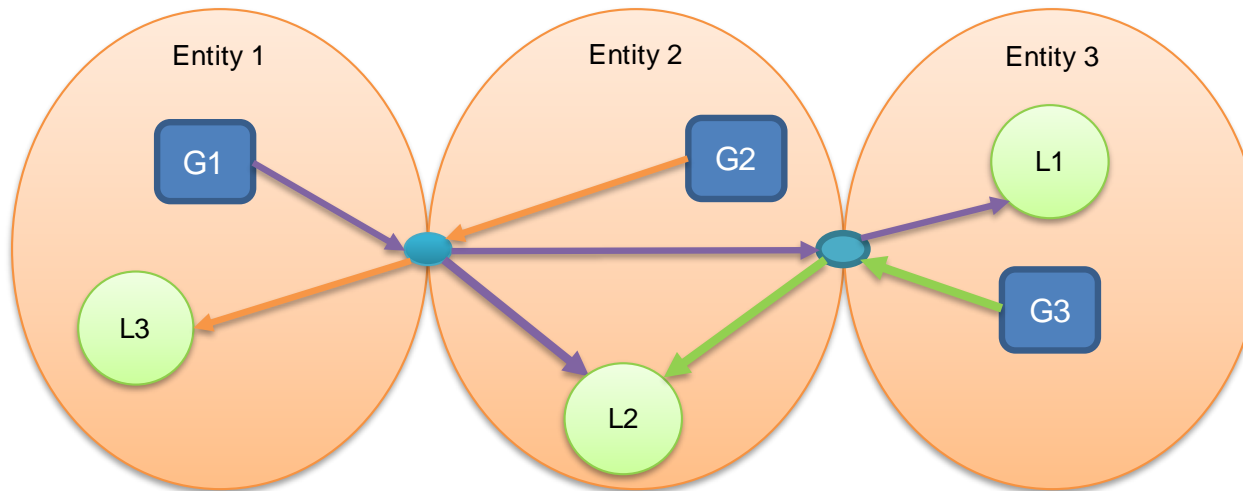
- EDAM BAA relies on import from adjacent non-EDAM BAA for resource sufficiency.
- Transmission at interties between non-EDAM BAA and EDAM BAA, for delivery of imports for RSE purposes, is **NOT** made available to EDAM for optimization under Bucket 1 transmission.

# Bucket 1 Transmission - Example

## EDAM Entity A

- RSE obligation in DA (for a particular hour) is 5000 MW
- Capacity demonstrated for meeting RSE:
  - 4500 MW of generation internal to the BAA.
  - 500 MW of import generation into the BAA.
    - 200 MW across transfer point with EDAM BAA
    - 300 MW across intertie with non-EDAM BAA
- Bucket 1 transmission consists of 200 MW of transmission rights across transfer points between EDAM areas supporting RSE.

# Bucket 1 Transmission – Comprehensive Example among EDAM Areas



## EDAM Entity 1

### Bucket 1 Transmission:

- At transfer point between Entity 1 and Entity 2. Results from import of G2, located in Entity 2 area, being shown for Entity 1 RSE.

## EDAM Entity 2

### Bucket 1 Transmission:

- At transfer point between Entity 2 and 3. Results from import of G3, located in Entity 3 area, shown for Entity 2 RSE.
- At transfer point between Entity 1 and 2. Results from import of G1, located in Entity 1 area, shown for Entity for Entity 2 RSE.

## EDAM Entity 3

### Bucket 1 Transmission:

- At transfer points between Entity 1 and 2, and between Entity 2 and 3.
- Results from import of G1, located in Entity 1, wheeled through Entity 2, and brought into Entity 3 area.



California ISO

# Bucket 3 Transmission

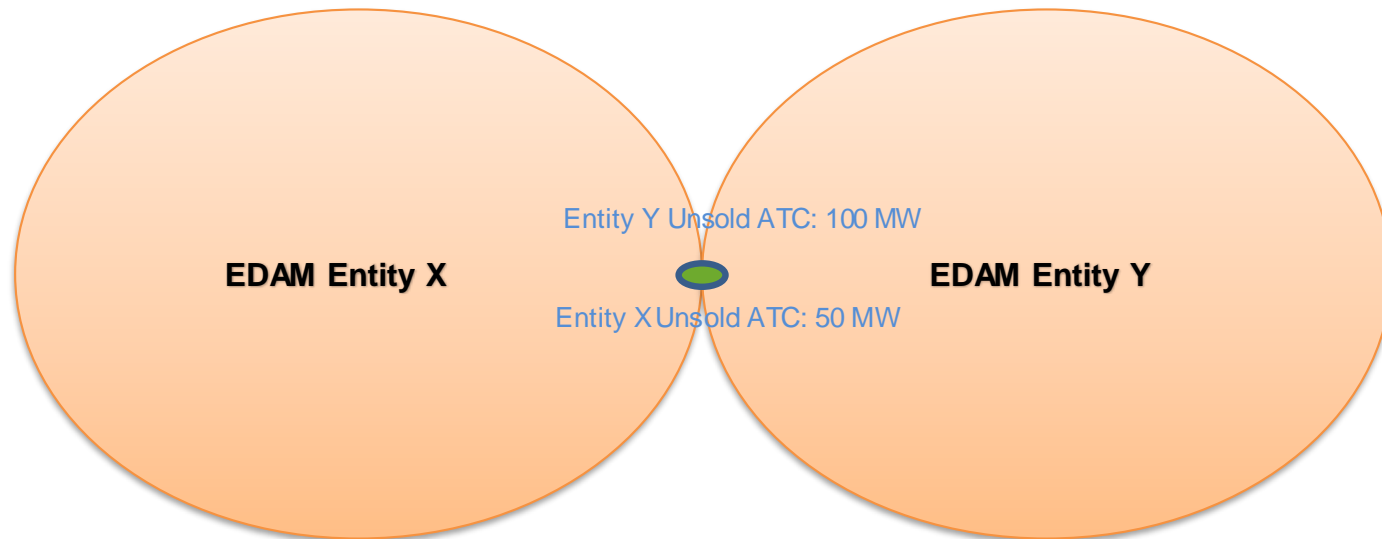
ISO PUBLIC

COPYRIGHT © 2022 by California ISO. All Rights Reserved

## Bucket 3 Transmission - Characteristics

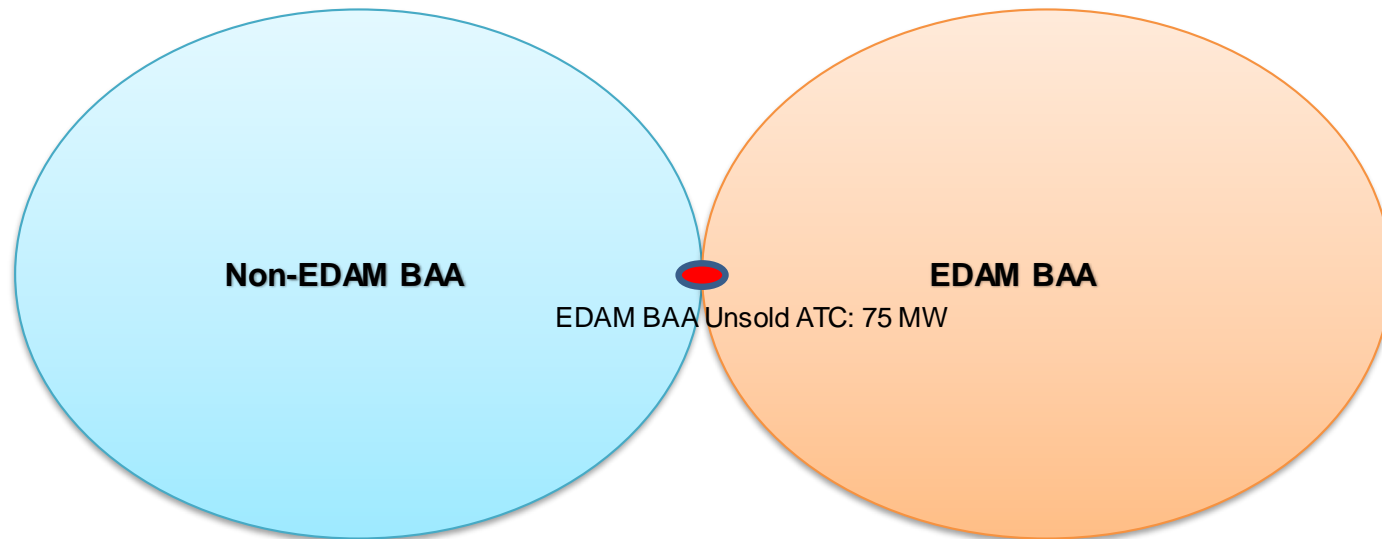
- Consists of unsold, unreserved, Available Transfer Capability (ATC) across transfer points between EDAM Areas that the Transmission Provider makes available to the market for optimization.
- Consists of Firm, Conditional Firm, or “Otherwise Highly Reliable” ATC that remains unsold or unreserved.
  - Made available to EDAM by 9 am in the day ahead.
- Bucket 3 transmission is subject to a hurdle rate and is thus utilized only after Bucket 1 and Bucket 2 transmission between two EDAM BAAs have been exhausted.
- Compensation for Bucket 3 transmission is up to the published Transmission Provider OATT rate.

# Bucket 3 Transmission – Between EDAM Areas



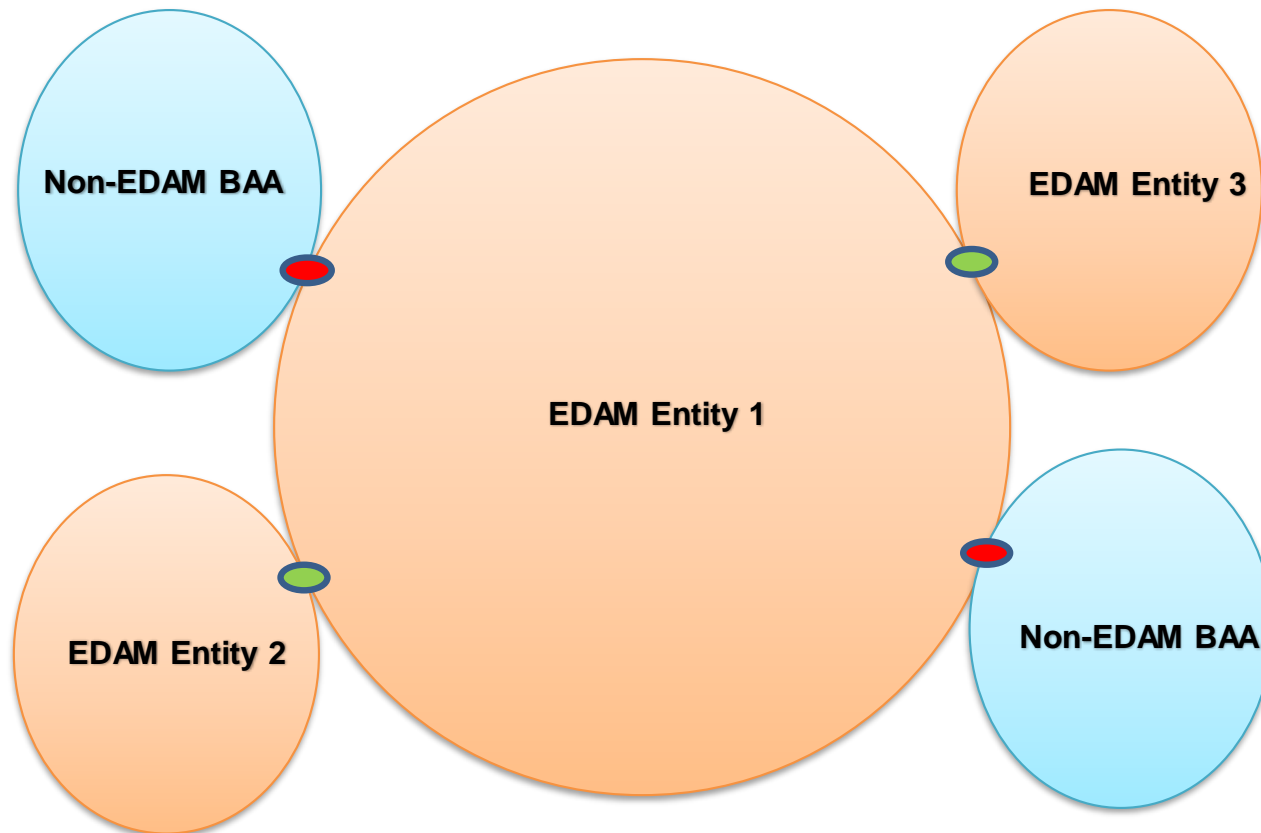
- Unsold ATC at transfer points between EDAM areas, can be made available to the market as Bucket 3 transmission.
- EDAM Entity X can make available 50 MW to the market for optimization.
- EDAM Entity Y can make available 100 MW to the market for optimization.

# No Bucket 3 Transmission – Between EDAM Areas and Non-EDAM Areas



- Unsold ATC at transfer points between EDAM BAA and non-EDAM BAA does not support EDAM transfers.
- While EDAM BAA may have 75 MW of unsold ATC, it is not available to the market as it does not support transfers between EDAM areas across the particular transfer point.

## Bucket 3 – Further Illustration



- EDAM Entity 1 can make unsold ATC available as Bucket 3 at tie points with EDAM Entities 2 and 3.
- EDAM Entity 2 and 3 can make ATC available as Bucket 3 at tie points with EDAM Entity 1.



# Making Bucket 3 Transmission Available to Market

- Transmission under Bucket 3 should be made available to the market by 9 am in the day ahead.
- Allowing for Bucket 3 transmission on an hourly basis, across 24-hour horizon.
- Ability to notify the EDAM Entity/Transmission Provider of the amount of optimized Bucket 3 transmission.

# 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 2 webpage:  
<https://stakeholdercenter.caiso.com/StakeholderInitiatives/Extended-Day-Ahead-Market-Working-Group-2-Transmission-Commitment-Congestion-Revenue-Allocation>
    - 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>