

# Subscriber Participating Transmission Owner Market Scheduling Options

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#### Housekeeping reminders

- This call is being recorded for informational and convenience purposes only. Any related transcriptions should not be reprinted without ISO's permission.
- The meeting is structured to stimulate dialogue and engage different perspectives.
- Please keep comments professional and respectful.
- Please try and be brief and refrain from repeating what has already been said so that we can manage the time efficiently.



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- If you need technical assistance during the meeting, please send a chat to the event producer.
- You may also send your question via chat to either Yelena Kopylov-Alford or to all panelists.



### Today's Agenda

Time	Topic	Presenter
9:00 – 9:05	Welcome and housekeeping	Yelena Kopylov-Alford
9:05 – 10:50	<ul> <li>Subscriber Participating Transmission Owner Model Overview</li> <li>Identified Implementation Complexities</li> <li>Merchant CRR Option</li> <li>Unbalanced ETC Option</li> <li>Request for stakeholder input</li> </ul>	Riddhi Ray
10:50 – 11:00	Schedule and next steps	Yelena Kopylov-Alford



#### CAISO Policy Initiative Stakeholder Process





# Subscriber Participating Transmission Owner Model Overview

- On March 12, 2024, the Federal Energy Regulatory Commission (FERC) accepted the CAISO tariff amendment for a new transmission development model, the Subscriber Participating Transmission Owner ("Subscriber PTO").
- This model establishes alternative opportunities for the construction of new transmission not addressed in the CAISO transmission plan in locations outside of the original CAISO balancing authority area.
- SunZia Transmission LLC and Transwest Express LLC are approved by the CAISO board as Subscriber PTO's.



## Subscriber Participating Transmission Owner Model Overview - continued

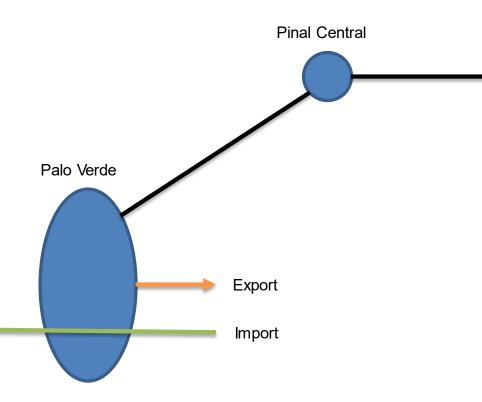
- The Subscriber PTO model allows subscribers to receive scheduling priority and a financial hedge against congestion and transmission access charges up to the point of interconnection between the Subscriber PTO transmission line and the original CAISO BAA, utilizing the Existing Transmission Contract (ETC)/Transmission Ownership Rights models (TOR).
- The ETC/TOR models use contract reference number (CRN) identifiers which require physical sink and physical source combinations.
- Subscriber PTOs will also be paid for non-subscriber usage of their transmission line.



#### Identified Implementation Complexities

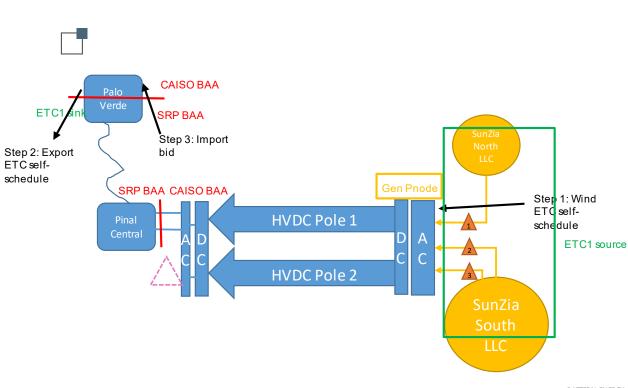
- Subscriber generator providing RA required to use import bids
- EDAM does not allow an import/export pair at an internal intertie or transfer point
- Two potential options







#### Balanced ETC Model Example



- Gen SC submits ETC1 Self-Schedule at Gen Pnode of X MWs.
- 2. Gen/Load SC submits ETC1 self schedule export at Palo Verde of X MWs.
- Gen SC submits import bid at Palo Verde of X MW to serve CAISO demand.
- 4. If wind gen with Pmax of 1000 MWs has 500 MWs of subscriber capacity, than non-subscriber usage is (market award 500 MWs).

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#### Merchant CRR Option

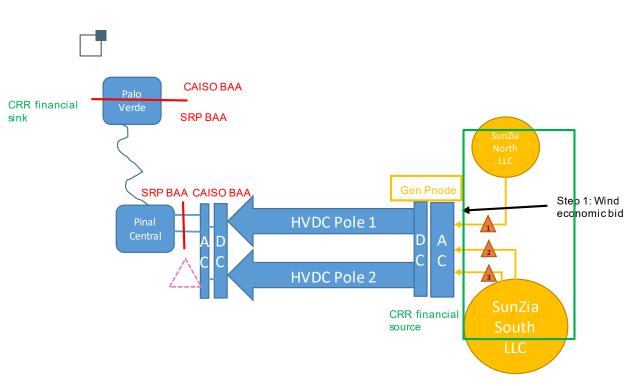
- The "Merchant CRR Option" combines two existing models, merchant CRRs and economic bidding.
- The merchant CRRs will provide congestion hedge between the start and end point of the Subscriber PTO transmission line.
- The subscribers can economically bid their generation removing the need to use balanced schedule CRNs, and consequently export/import at the transmission endpoint.
- Subscribers will register their subscriber capacity at scheduling points and subscriber generation, which will be used by the market to measure non-subscriber usage.



#### Merchant CRR Option -Non-Subscriber Usage

- Certain Subscriber PTO transmission rights are in the form of transmission entitlements on non-CAISO controlled transmission facilities.
- CAISO will implement these entitlements subject to any restrictions imposed by non-CAISO transmission owner/operator.
- CAISO may limit scheduling at certain Subscriber PTO transmission scheduling points to subscriber scheduling coordinators to manage these restrictions.

#### Economic Bid plus CRR Model Example



- Gen SC submits economic bid at Gen Pnode of X MWs.
- 2. Market provides congestion hedge from CRR financial source to CRR financial sink.
- If wind gen with Pmax of 1000 MWs has 500 MWs of subscriber capacity, than non-subscriber usage is (market award – 500 MWs).

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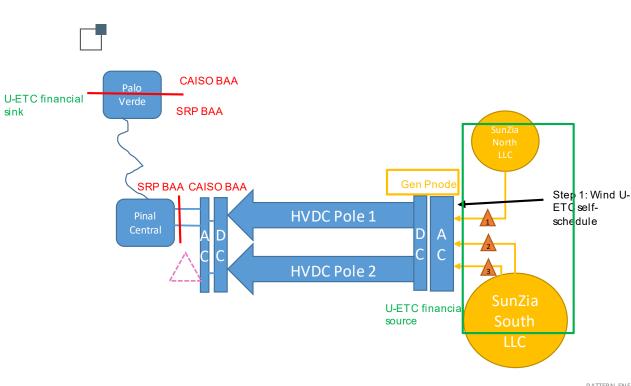


#### Unbalanced ETC CRN Option

- The "Unbalanced ETC CRN Option" is a new market model which proposes implementation of specific CRNs that do not require a balanced schedule.
- The unbalanced CRN will have a registered physical source but no registered physical sink. Subscribers can self-schedule at source without having to export/import at the transmission line end-point.
- The financial source and sink associated with the Subscriber PTO unbalanced CRN will provide the hedge against congestion charges, while scheduling priority is provided to physical source.
- The subscribers will pay transmission access charges for any demand or export served beyond the transmission line end-point.



#### Unbalanced ETC Model Example



- Gen SC submits U-ETC self schedule at Gen Pnode of X MWs.
- Market provides congestion hedge from U-ETC financial source to U-ETC financial sink.
- If wind gen with Pmax of 1000 MWs has 500 MWs of subscriber capacity, than non-subscriber usage is (market award – 500 MWs).

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#### CAISO Request for Stakeholder Input

- CAISO is proposing these options as alternatives to the current ETC model as an enhancement to the Subscriber PTO model.
- The Subscriber PTO model is currently being implemented using the ETC model as approved by the tariff amendment in 2024.
- These alternatives allow for more streamlined market participation in certain scenarios.
- CAISO believes this policy change is not subject to the joint authority of the WEIM Governing Body.



## **NEXT STEPS**



#### Stakeholder Process Schedule

DATE	EVENT
11/13/2024	Publish Issue Paper
11/20/2024	Stakeholder meeting on Issue Paper
12/4/2024	Comments due on Issue Paper
12/23/2024	Publish Straw Proposal
1/7/2025	Stakeholder meeting on Straw Proposal
1/21/2025	Comments due on Straw Proposal
2/4/2025	Publish Draft Final Proposal
2/10/2025	Stakeholder meeting on Draft Final Proposal
2/24/2025	Comments due on Draft Final Proposal
3/10/2025	Publish Final Proposal
3/27/2025	Board of Governors Meeting

#### Next Steps

- Please submit comments on the Issue paper and meeting discussion using the commenting tool on the initiative webpage.
  - **❖** Comments are due by end of day December 4, 2024.
- Visit initiative webpage for more information:
   <u>https://stakeholdercenter.caiso.com/StakeholderInitiatives/Subscriber-participating-transmission-owner-market-scheduling-options</u>
- If you have any questions, please contact <u>isostakeholderaffairs@caiso.com</u>





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