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### Transmission Rights Market Enhancement and Platform Refresh Project

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#### Agenda

- Purpose of Today's Discussion
- Background
- Project Scope/Purpose
- Overview of Changes
- Expected Impact to Stakeholders
- Upcoming Work and Stakeholder Involvement
- Next steps



#### Purpose of Today's Discussion

- Inform Transmission Rights (TR) auction participants of upcoming changes to the TR Auction platform, including:
  - Scope of changes
  - Impacts to Market Participants
  - Estimated timing of milestones and implementation



#### Background – TR Market Auction Design

- Operating largely based on its original design from 2002
- Ontario Energy Board's Market Surveillance Panel (MSP) has provided recommendations and feedback regarding potential inefficiencies of the TR market
- The IESO conducted a <u>TR Market Review</u> (completed June 2021) in response to MSP recommendations
- One of the outcomes of the TR Market Review was the identification of certain enhancements, or high-value opportunities, that will improve its efficiency, value and function of the TR market today and in the future



#### Background – The TR Auction Platform

- The Ontario TR market was established at market opening in 2002. TRs were introduced as a risk management tool to enable traders to hedge the financial risks associated with uncertain congestion at the interties
- To facilitate the sale of TRs the IESO and participants utilize the TR auction platform available on the IESO gateway
- The TR auction platform is based on 15+ year old technology that is due for a refresh



## Overview of Changes



#### Project Scope/Purpose

## 1. Updating TR auction platform to align with current IESO software

- Required change given the aging system/technology it was built upon
- Modern platform will improve functionality for TR auction participants
- Easier for the IESO to maintain

# 2. Enhance market by introducing multiple bid laminations

- A high-value opportunity that received unanimous stakeholder support from the TR Market Review that will improve flexibility for traders and encourage more active and competitive bidding
- This improvement was able to leverage the TR auction platform refresh without impacting MRP implementation

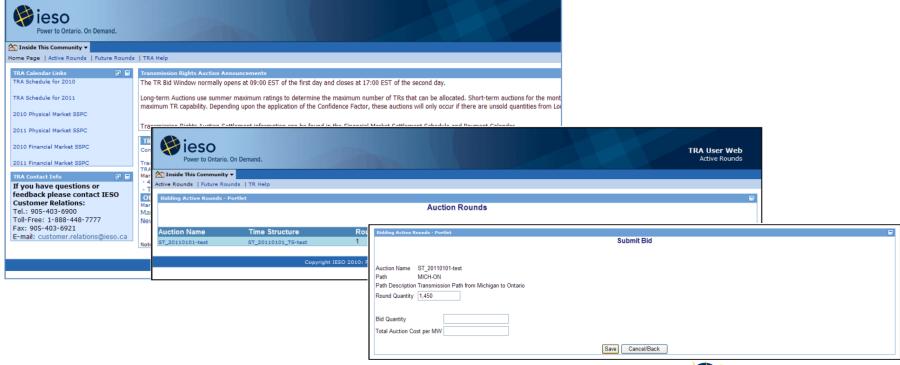


#### 1. Upgraded Platform – New User Interface

- Users can represent multiple organizations similar to other platforms Participants will have the opportunity to consolidate accounts
- Eliminates additional costs by leveraging existing investments such as infrastructure, security, databases, etc., this will be consistent with other IESO platforms
- Moving forward requires further development to finalize product, updating supporting documentation (i.e. participants guide, etc.) and optional participant training to prepare for implementation

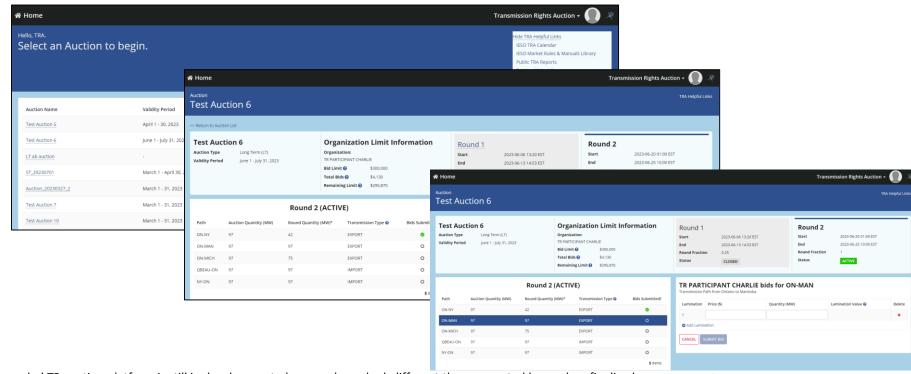


#### **Current TR Auction Platform**





#### Upgraded TR Auction Platform\*



<sup>\*</sup>Upgraded TR auction platform is still in development phase, and may look different than presented here when finalized

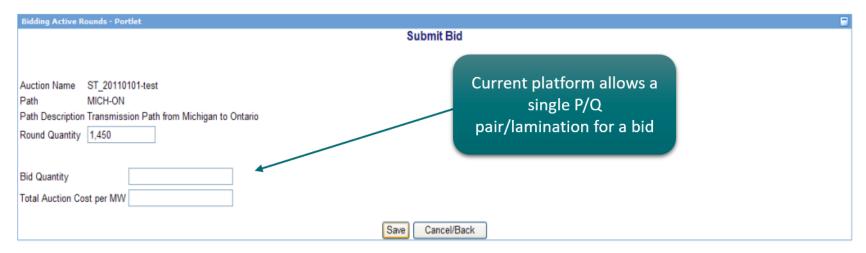


#### 2. Multiple Bid Laminations for TR Auctions

- Stakeholders have asked for the ability to submit multiple bid laminations (price-quantity pairs) into the TR auction. Multiple price-quantity pairs are enabled for all other IESO markets (energy, OR, capacity) because of its recognized market efficiency benefits, improving competition and liquidity.
- Allows traders to express different price sensitivities when bidding.
- This change is made possible by leveraging the planned platform refresh. As this feature
  exists in other IESO market tools, it is anticipated to be a relatively straight forward
  implementation.
- Moving forward requires Market Rule, Manual and other supporting document changes



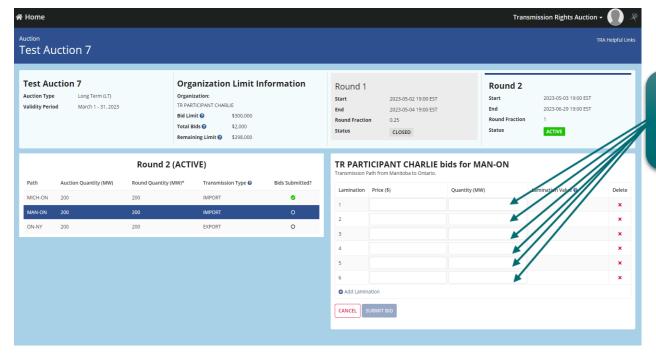
#### Single Bid Lamination vs. Multi Bid Lamination



**Current TR Auction Platform** 



#### Single Bid Lamination vs. Multi Bid Lamination (Cont'd)



Updated platform will allow for up to 20 P/Q pairs/laminations for a bid

#### Updated TR Auction Platform\*

\*Upgraded TR auction platform is still in development phase, and may look different than presented here when finalized



# Expected Impact, Upcoming Work and Stakeholder Involvement



#### **Expected Impact to Stakeholders**

#### 1. New TRA User Interface

- No software/hardware changes for participants
- Testing/learning by TR auction participants
- Easier/more efficient to navigate and use
- Minor Impact change to the look and feel of the platform is similar to other tools the IESO uses (i.e., capacity auction)

# 2. Enhancement to allow TR auction participants to submit multiple bid laminations

 Minor/Medium Impact - users will have the choice to continue to bid with same strategy or expand their bidding strategies to display different price sensitivities

Improved platform with additional choice and added value for participants



#### Upcoming Work and Stakeholder Involvement

The IESO is continuing development work to implement the upgraded platform, and welcome stakeholder involvement throughout the process:

- 1. Market Rule (MR), Market Manual (MM), and other document amendments to facilitate multiple bid laminations and transition to the new platform the IESO will need to amend documentation
- MR and MM changes are expected to primarily involve clarifying auction design, updates
  to bidding and lamination requirements, and adjustment of the objective function to
  award TRs considering multiple laminations
- Market Participants will be able to review and comment on draft MR and MM changes.



#### Upcoming Work and Stakeholder Involvement cont.

- 2. **Market Trials** training and testing of the application before implementation
- TR auction participants are encouraged to have resources available to participate in the new platform training and testing, so they can participate in the auction without issue when implementation occurs



#### **Project Components and Timeline**





### **Engagement Next Steps**

Timing	Engagement Activity
Oct-Nov	Feedback on Market Rules & Market Manuals
Nov-Dec (if required)	Follow-up engagement, pending feedback
TBC	Communicate training and seek input through Market Trials



#### Thank You

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