

## **Key AESO Initiatives** Kevin Dawson Director, Forecasting & Analytics Ivey EPMC's 3<sup>rd</sup> Annual Workshop October 22, 2019













### **Longer-term Priorities**

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# **Transition**

- Energy-only market review
- Transmission planning
- Coal phase-out
- Tariffs & cost allocation

## Transformation

- How electricity is produced, consumed and exchanged
- Consumer expectations
- Industry disruptors & beyond
- Technology advancement

2023

# High level focus – Ensuring price signals are aligned and efficient

- Many different price signals
  - Energy and reserve prices
  - Tariff charges/credits
  - Loss charges/credits
  - Congestion
  - Fuel and environmental attribute costs
- Important for signals to align
  - Using competitive forces to ensure reliability and optionality at a reasonable cost
  - Promoting the efficient use of infrastructure
- Stakeholder confidence is key
  - Participants need clear price signals and a stable market and regulatory framework to make investment decisions

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- Advice to Energy Minister
  - Providing advice to the Government of Alberta on market power mitigation by Nov. 29, 2019
    - Seeking stakeholder input by Oct. 29, 2019
  - Providing advice to government on whether changes are needed to the energy-only market by July 31, 2020
    - Seeking stakeholder input in the coming months on potential changes to the price floor and ceiling and shortage pricing
- A Flexibility Roadmap has been developed:
  - Our plan to enhance and ensure sufficient system flexibility, and will consider dispatch tolerance, shorter settlement, and pricing
  - Ongoing monitoring of grid flexibility needs and capabilities

- AESO published the Dispatchable Renewables and Energy Storage report\* in Sept. 2018
  - Recommended flexibility and energy storage roadmaps
- The Energy Storage Roadmap is our plan to facilitate the integration of energy storage
  - AESO is impartial to technology type and considers energy storage a unique asset; neither a load nor a generator
  - Published in Aug. 2019\*\*

<sup>\* &</sup>lt;u>www.aeso.ca/assets/Uploads/AESO-Dispatchable-Renewables-Storage-Report-May2018.pdf</u>

<sup>\*\*</sup> https://www.aeso.ca/assets/Uploads/Energy-Storage-Roadmap-Report.pdf

- The DER Roadmap is under development to:
  - Ensure a safe, reliable, coordinated grid
  - Enable FEOC markets and competition across the value chain
  - Keep pace with distribution system technology advancements
  - Understand evolving consumer preferences
  - Deliver on our public interest mandate
- AESO is working with industry and stakeholders on scope of work, including:
  - Issues identification, market participation, connection process, cost allocation
- Implementation of the DER Roadmap is expected in 2021

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- On Sept. 22, 2019 the Alberta Utilities Commission (AUC) approved several elements of AESO's 2018 ISO tariff application, and directed us to file a compliance filing by Jan. 31, 2020
- For the next tariff application, AESO is engaging stakeholders on:
  - Bulk and regional cost tariff design, including review of the existing
    12 coincident peak rate design for bulk transmission cost recovery
    - Avoidance of transmission cost a stronger price signal than energy price
  - Demand transmission service (DTS) rate design
  - Cost allocation
  - Energy storage tariff treatment
  - Investment level determination including a review of standard facilities approach





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