

# ESAG Update

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# Context

- The Energy Storage Advisory Group (ESAG) was formed in April, 2018
- There are approximately fifty member organizations
- Membership is open, but limited to one person per organization
- ESAG carries out these activities:
  - Support the IESO's work as part of the 2017 LTEP Implementation Plan
  - Provide input into IESO's work plan and/or list of priorities to address storage related issues and opportunities
  - Advise, consult and coordinate discussions on issues which may affect storage participation in existing IESO markets

# September ESAG Meeting and the LTEP IP Work page one

Identify Potential Storage Obstacles

- *1<sup>st</sup> Meeting*
- Seeking ESAG Member input on the inventory of potential storage obstacles and issues

Develop Criteria and Principles

- *2<sup>nd</sup> Meeting*
- Criteria will help guide the determination of obstacles to fair competition of energy storage; principles will help guide the development of mitigating strategies

Develop Mitigating Strategies

- *3<sup>rd</sup> and 4<sup>th</sup> Meetings*
- Review application of criteria to the inventory of potential obstacles vis-à-vis the scope of the LTEP (*today's focus*);
- Present the applicable mitigating strategies (September meeting)

IESO to report-back on the work by the end of September

# September ESAG Meeting and the LTEP IP Work page two

- The September ESAG meeting will mark the end of the ESAG discussions on the IESO's LTEP IP energy storage deliverable
- The IESO will report back on its findings and on the recommended mitigating strategies for the obstacles that are within the scope of the LTEP work (previous agenda item) at the end of September
- While this marks the end of the IESO's LTEP IP energy storage deliverable, the discussions on energy storage will continue through the ESAG forum

# September ESAG Meeting and the LTEP IP Work page three

- At the September ESAG meeting, the IESO will present the following items for the LTEP IP work:
  - The results of the assessment that is currently underway for the inventory items classified as “under consideration”, i.e., the charge analysis
  - A summary of the recommended mitigating strategies that will be provided in the report back of this work
- The report back on this work will indicate that the discussions will be continuing through the ESAG and note that while recommended mitigating strategies will be provided, the sector should remain flexible and open to adapt to new developments, learnings and concepts related to energy storage resources
  - There are many moving parts within the sector; and
  - The IESO is just beginning to gain experience operating some of the storage pilots from the Phase 1 program

# Potential next steps for ESAG (post LTEP)

- A primer on U.S. efforts
- Review recent research from the academic community
- Advise and inform IESO efforts to address barriers to storage within IESO's purview (as identified through LTEP work)
  - Examine potential design trade-offs and issue clusters that may be affected
  - Cataloguing design options and cross-referencing them to the storage issues list