

Feedback Form

Hybrid Integration Project – June 23, 2021

Feedback Provided by:

Name: Leonard Olien

Title: Director, Energy Storage

Organization: CanREA

Email: [REDACTED]

Date: July 14, 2021

Following the June 23, 2021 webinar on the Hybrid Integration Project, the IESO is seeking feedback from participants on the types of Hybrid pairings most likely to be developed in Ontario, as well as on the appropriateness of the proposed Vision questions. The IESO will work to consider feedback and incorporate comments as appropriate and post responses on the engagement webpage.

The referenced presentation can be found under the June 23, 2021 entry on the [Hybrid Integration Project webpage](#).

Please provide feedback by July 14, 2021 to engagement@ieso.ca. Please use subject: *Feedback: Hybrid Integration Project*. To promote transparency, this feedback, if provided in an AODA-compliant format (e.g. using this form) will be posted on the [Hybrid Integration Project webpage](#) unless otherwise requested by the sender.

Thank you for your time.

Hybrid Pairings

Topic	Feedback
What types of Hybrid pairings (technology and storage-to-generation ratios) are most likely to be developed in Ontario? Why?	Developers will be considering all manner of hybrid pairings because of the wide range of services that energy storage can provide. Storage-to-generation ratios will also span the range from very small to 1-to-1. The decision to build a particular configuration will depend on the revenue models that the IESO makes available to the various projects. Price arbitrage may become of interest for those projects with expired contracts and are exposed to the HEOP. Participation in the capacity auction and the ancillary services markets are other obvious revenue sources. Increasingly, hybrid projects should be considered for the supply of transmission and distribution deferral and congestion management services and revenue models will need to be developed to compensate for those services.

Draft questions for Hybrid Vision Phase

Topic	Feedback
Are the Vision questions appropriate given IESO's intent to pursue a foundational participation model?	The Vision questions are sufficiently thorough and provide a solid basis for the development of the Vision document.

General Comments/Feedback

CanREA members are already involved in the development of hybrid projects in other jurisdictions and are interested in bringing their experience and expertise to hybrid projects in Ontario. In developing the Foundational model and the Vision document, the IESO should keep in mind that the most efficient solutions will be delivered when the IESO can clearly describe the need, identify the relevant revenue model and remove barriers to participation to allow market participants to supply low cost solutions while managing the relevant risks.