

Feedback Form

Hybrid Integration Project – June 23, 2021

Feedback Provided by:

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Date: July 8, 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?	<p>One of the potentially overlooked though with significant potential pairings in Ontario is waterpower/storage – at a wide range of scales. For example, two thirds of the province’s 224 waterpower facilities would be considered “small hydro” (less than 10MW in installed capacity) and almost one-third are less than 1MW. The vast majority of these facilities are connected at the distribution level. While often characterized as “run of river” operations, these assets generally have the ability to shape their production on a daily and/or weekly basis while being seasonally dependent on available flows. Moreover, the facilities are often operated in a “cascade” system, reusing the same block of water as it moves downstream. Many such facilities would be ideal candidates for a “Hybrid pairing” approach, with waterpower to storage generation ratios determined site and/or system specifically.</p> <p>Larger waterpower facilities with greater seasonal storage that operate now to help meet system peak requirements offer additional flexibility with respect to Hybrid pairing opportunities and, again, should be assessed on a site and or system specific basis.</p> <p>Our key message is that most, of not all, of the discussion and emphasis to date has been on the pairing of storage with other renewable technologies. Ontario’s waterpower fleet provides a unique opportunity and jurisdictional advantage that should be incorporated into this project.</p>

Draft questions for Hybrid Vision Phase

Topic	Feedback
Are the Vision questions appropriate given IESO's intent to pursue a foundational participation model?	Yes.

General Comments/Feedback