

Feedback Form

2024 Grid Innovation Fund – April 23, 2024

Feedback Provided by:

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Date: May 7, 2024

To promote transparency, feedback submitted will be posted on the [2024 Grid Innovation Fund Engagement](#) web page unless otherwise requested by the sender. If you wish to provide confidential feedback, please mark as "confidential".

Following the April 23, 2024, engagement webinar, the Independent Electricity System Operator (IESO) is seeking feedback on items discussed. The webinar presentation and recording can be accessed from the [engagement webpage](#).

Please submit feedback to engagement@ieso.ca by May 7, 2024.

Specific Comments/Feedback

Topic	Response
Do you have any comments or feedback on Stream 1 objectives including the minimum project size targets for sub-streams 1A and 1B?	No
Do you have any comments or feedback on Stream 2 objectives including the minimum project size targets for sub-streams 2 and 2B?	<p>Yes.</p> <ol style="list-style-type: none"> 1. What is the minimum amount of funding that must be requested from the IESO for Stream 2 projects? 2. "Supplementary generation assets" are listed under "Ineligible Expenses" in Appendix B of the "Draft Proposal Guideline". HVAC systems can benefit greatly from intelligently controlled power-generating distributed energy resources that provide resilience and grid flexibility and should be considered. Such power generating resources could include solar PV and small-scale combined heat and power (CHP) units that can simultaneously produce both electricity and hot water. The use of a hybrid system for heating and power generation has many benefits for the grid and emissions reduction goals. Using some combination of onsite CHP, solar PV, heat pump, thermal storage, and smart controls has the ability to intelligently switch between systems based on signals from the grid (e.g. grid emission factors, fuel costs, and grid demands). A particular strength of CHP is its flexibility as a dispatchable resource and it can complement a system with solar PV by producing power even during time periods of low/no solar power generation. We recommend that the IESO clarify, in the proposal guideline and other materials related to the GIF, that although "Supplementary generation assets" cannot be purchased using IESO funding, they can still be included in an IESO funded project, and counted as part of the <i>total project value</i>, if they are purchased by the project applicant or a partner.

Topic	Response
	<p>3. Regarding the requirement that IESO funding must not exceed 50% of <i>total project value</i>, does the calculation of this <i>total project value</i> include both:</p> <ul style="list-style-type: none"> i. expenses listed as “Eligible Expenses” in Appendix B of the “Draft Proposal Guideline”, such as heat pumps integrated with thermal storage, as well as ii. expenses listed as “Ineligible Expenses” in Appendix B of the “Draft Proposal Guideline”, such as power generating equipment that supports the project? <p>4. Can a project include a plan to install different types of equipment at several sites, such as</p> <ul style="list-style-type: none"> i. A system with a heat pump and thermal storage that also includes solar PV and gas CHP ii. Hybrid heating systems with various configurations and smart controls iii. A dual fuel water heating system. <p>5. Can a hybrid heating system with a heat pump with no storage be an “Eligible Expense”? We plan to propose a simultaneous hybrid heating (SHH) system which is composed of a heat pump and gas heating equipment. Unlike a traditional hybrid heating system, the SHH system allows for longer operating hours for the heat pump as the heat pump operates whenever the grid is clean and the electricity price is low. Gas equipment is operated only at very cold outdoor temperatures and when the grid emissions factors and electricity price are high, or when there is high grid demand.</p> <p>6. For Stream 2A, are single-family homes acceptable as project sites, with the sites being aggregated to be at least 100 kW?</p>
Are the Key Performance Indicators clear?	Yes

Topic	Response
Are the Evaluation Criteria clear?	Yes
Do you have any comments or feedback on the Proposal Template Part A or Part B?	No

General Comments/Feedback