Feedback Form

Local Achievable Potential Study Webinar – August 21, 2025

Feedback Provided by:

Name: Katherine Sparkes

Title: VP, Grid Solutions

Organization: Enwave Energy Corporation

Email: [redacted]

Date: September 18, 2025

To promote transparency, feedback submitted will be posted on this engagement webpage unless otherwise requested by the sender.

Following the Toronto Local Achievable Potential Study (L-APS) webinar held on August 21, 2025, the Independent Electricity System Operator (IESO) is seeking feedback on the draft findings. A copy of the presentations as well as a recording of the session can be accessed from the engagement web page.

Please submit feedback to engagement@ieso.ca by September 18, 2025.

Topic	Feedback
What feedback do you have on the L-APS draft findings?	Click or tap here to enter text.

Topic	Feedback
Is there additional information that should be considered before L-APS findings are finalized?	As per information Enwave previously shared with the IESO there is potential for large-scale peak electricity demand reductions vs the IESO's reference forecast through the deployment of electrified, peak-shaving electric boilers or heat pumps to electrify/decarbonize Toronto's existing downtown district energy system (DES). The reference /base case demand forecast for the Toronto IRRP is understood to assume that most building heat electrification happens via stand-alone in building electrified heating systems which Enwave's experience and data indicate are unlikely to be peak-shaving (given that these buildings are generally Class B and not incented to shift demand at peaks) and will result in greater overall electricity consumption than electrification via peak-shaving electric boilers or heat pumps for district energy. Per the examples shared by Enwave, there is a near-term opportunity for the deployment of a large-scale electric boiler/electric heat pump with waste heat recovery capability that could provide >50MW of peak demand reduction vs. status quo in-building heating electrification in the downtown – supporting electricity system reliability, cost-effectiveness (through sharing of costs and benefits between electricity and thermal energy ratepayers), decarbonizing a significant portion of downtown Toronto's building heating and providing certainty to the IESO regarding the pace/location of electrification. There is also significant potential to reduce peak demand through the deployment of large-scale thermal energy storage in the Port Lands as housing and employment space is built in that area The peak-reducing solutions for downtown and the Port lands would be distribution connected and Enwave recommends the IESO include them in the next iteration of its DER local achievable potential study for Toronto
Are there specific modelling methodology or assumption topics that you would like to see discussed in the final public report?	See above re: modelling distribution connected electrified, peak-shaving district energy resources. Enwave is happy to support with any additional information required by the IESO for modelling purposes.
How can the IESO best communicate with communities and stakeholders on actioning the additional electricity	Click or tap here to enter text.

Topic	Feedback
demand-side management opportunities identified in the study?	

General Comments/Feedback

Enwave expresses its gratitude to the IESO for the continued opportunity to provide input on the IRRP and the DER Local Achievable Potential Study for Toronto. As discussed with IESO staff and per Enwave's previous submissions to the IRRP process, there is potential for large-scale peak-demand reductions via electrified peak-shaving district energy leveraging large-scale electric boilers, large-scale electrified heat pumps with waste heat-recovery, large-scale thermal storage, and existing district energy back-up systems to provide a more reliable, cost-effective approach to electrification (and decarbonization) than stand-alone in-building electrification (which is understood to be the generally assumed approach in the IESO's reference /baseline demand forecast for Toronto). These district energy-based solutions for electrification would also provide the IESO with certainty regarding where, when and how much electrification will occur. These district energy solutions for downtown Toronto and the Port Lands would be distribution connected (as Enwave's existing district energy system is) and Enwave recommends that the IESO integrate these solutions into the local achievable potential study.