

IESO Engagement

From: Lattanzio, Adrian
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To: IESO Engagement
Cc: CURRIE J. Brent; BRODIE Mark; Ismail Sheikh; Jac Vanderbaan
Subject: Central-West Bulk Study Engagement Session - London Hydro Feedback
Attachments: cwbp-20230816-presentation.pdf

Following up to August 16th public webinar #1, “*Central-West Bulk Planning Engagement Launch*”, on behalf of London Hydro (LH) we wanted to thank you for the insight and provide some feedback for consideration into the provincial/regional planning activities.

In particular to the total capacity plan for the “London area”, where slide 17 (attached for convenience) indicated 200-500 MW of potential development in each of the respective planning regions. We wanted to flag that this may be light for our region, if trends observed in 2022-23 continue and/or materialize.

As you know LH is situated in the “London area” planning region, and recent economic developments such as the Volkswagen plant to the south, which is anticipated to draw energy intensive ancillary/prospective business to the area, decarbonization initiatives, which will have a substantial influence to customer’s demands, and EV growth/adoption. Albeit many inquiries have only been early stages, and may be influenced considerably by energy policies, however, 2023 has shown an influx of businesses being more proactive to develop plans that extend beyond the typical 10 years, with outlooks up to 2050, as large capital investments (approvals) are required for such initiatives.

To summarize here are some high-level points to project/estimate the prospective demand in LH’s distribution **by 2050**:

- City of London municipal growth, based on 2023's draft development plan issued by the City -> Total demand 340MW
- Recently received two (2) prospective large business inquiries that had estimated demand projections of 40MW each -> Total demand of 80MW
- Three (3) existing large business expansions and/or decarbonization plans, had estimated demand projections of 30MW, 20-60MW (depends on plans) and 10MW, respectively -> Total demand of 100MW
- Decarbonization by 2050, based on the assumption larger customers average demand could grow by 50% -> Total demand of 120MW
- EV propagation by 2050, based on the assumptions: 20% of London’s population adopting a Level 2 charger, applying a 10% coincident factor and average EV charge demand of 10kW -> Total demand of 100MW
- Considering extreme weather correction, this could add another 40-60 MW into the planning forecast
- Therefore, the above aggregates to an estimated total prospective demand of 800 MW in LH’s distribution alone

Recognizing these are high-level, based on many assumptions, and have a dependency on energy policies, but hopefully this provides the value and insight that you seek.

Feel free to reach out to discuss further.

Kind regards,



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