

**Hydro One Networks Inc.**  
**EB-2023-0197**  
**Leave to Construct Application: K4 Reconductoring Project**

**Interrogatories of Environmental Defence**

**Interrogatory 2.0-ED-1**

Reference: Exhibit B, Tab 5, Schedule 1

Questions:

- (a) Please redo the analysis of the conductor sizing alternatives based on the line loss valuation methodology used by the IESO.
- (b) Please redo the analysis of the conductor sizing alternatives based on the line loss valuation methodology used by the IESO and on the assumption that electricity demand is 10% higher than planned.
- (c) Please file the latest line loss valuation methodology used by the IESO.
- (d) Please provide the latest copy of Hydro One's transmission losses guideline.
- (e) The settlement in Hydro One's recent rates case included the following term regarding the transmission losses guideline:

“Hydro One Transmission will continue participating in the IESO's transmission losses engagement process. Within six months of the final IESO guideline being published as part of the IESO stakeholder process, Hydro One will review and, if necessary, update its transmission line loss guideline.”<sup>1</sup>

Please confirm whether this has taken place. If it has, please describe the outcome and the reasons therefore. If it has not, please explain when it will.

- (f) Please provide a table comparing Hydro One's methodology for valuing line losses and those used by the IESO, with a column to justify why Hydro One uses a different value.

**Interrogatory 2.0-ED-2**

Reference: Exhibit B, Tab 5, Schedule 1, Table 1

Questions:

- (a) Please provide a table with annual figures comparing the forecast peak and annual electricity demand underlying the conductor sizing alternatives analysis with the forecast peak and annual demand that is consistent with the IESO latest overall demand forecasts.
- (b) Please provide a table with annual figures comparing the forecast peak and annual electricity demand underlying the conductor sizing alternatives analysis with the forecast peak and annual demand that would arise if all buildings served by the line were to have

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<sup>1</sup> Settlement Proposal for EB-2021-0110 at page 62.

electrified heating and transportation (i.e. heat pumps and electric vehicles). Please provide all calculations and a live spreadsheet. Please make and state assumptions and caveats as necessary. A high-level analysis with high-level assumptions is sufficient.

- (c) Assuming Hydro One's proposed solution is implemented, would the conductor need to be replaced in the future if all of the buildings served by the line were to switch to electrified heating and transportation (i.e. heat pumps and electric vehicles)? Please make and state assumptions and caveats as necessary. A high-level analysis with high-level assumptions is sufficient.