

Filed: 2021-11-29
EB-2021-0110
Exhibit I
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Witness: GILL Spencer

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Witness: REINMULLER Robert

1 **D - ONTARIO SUSTAINABLE ENERGY ASSOCIATION INTERROGATORY - 003**

2

3 **Reference:**

4 Exhibit D-4-1

5

6 **Preamble:**

7 Hydro One's transmission and distribution load forecasts include the impact of CDM activities.

8 OSEA is interested in understanding Hydro One's assumptions about CDM.

9

10 **Interrogatory:**

11 a) For Table 2 (Exhibit D-4-1, pg. 5), Load Impact of CDM on Ontario Demand (MW), please
12 provide the CDM impact on peak demand for winter peaks.

13

14 **Response:**

15 a) The requested information is provided below:

16

	Cumulative CDM impact on Winter Peak Demand (MW)
2006	184
2007	494
2008	567
2009	633
2010	740
2011	860
2012	974
2013	1,099
2014	1,216
2015	1,276
2016	1,492
2017	1,438
2018	1,705
2019	1,808
2020	1,811
2021	1,934
2022	2,065
2023	2,163
2024	2,153
2025	2,212
2026	2,269
2027	2,381

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Witness: ALAGHEBAND Bijan

1 **D - ONTARIO SUSTAINABLE ENERGY ASSOCIATION INTERROGATORY - 004**

2
3 **Reference:**

4 Exhibit D-5-1

5
6 **Preamble:**

7 Sub-Transmission customers (i.e., large commercial and industrial customers) have increased
8 their investment in behind-the-meter resources to reduce Global Adjustment charges. OSEA is
9 interested in understanding Hydro One's estimate of the impact of behind-the-meter resource
10 CDM activities on peak demand of large customers.

11
12 **Interrogatory:**

- 13 a) Does embedded generation include all behind-the-meter resources at customer sites?
- 14
- 15 b) Please provide Hydro One's estimate of behind-the-meter resource installed capacity broken
16 into the following categories
- 17
- 18 i. by Technology (e.g.. Cogeneration / Energy Storage / Gas-Fired Generation)
- 19
- 20 ii. by Geographic location, i.e., by the 21 planning regions (see list in Exhibit B-3-1, Section
21 3.4, Appendix B), and
- 22
- 23 iii. by Year from 2020 to 2027.
- 24
- 25 c) Please provide the estimated total impact of CDM activities from behind-the-meter resources
26 on Hydro One's summer and winter peak demand for Hydro One's distribution system.
- 27
- 28 d) Does Hydro One have any reliability contracts to use customer behind-the-meter resources
29 to meet distribution system needs? If so, please provide a summary of how Hydro One uses
30 behind-the-meter resources to reduce distribution system constraints.

1 **Response:**

2 a) Embedded generation does not include all behind-the-meter resources at customer sites.

3

4 b)

5 i. Please see response to OSEA-005.

6

7 ii. The requested information is not available.

8

9 iii. The behind-the-meter installed capacity for 2020 is provided in the response to OSEA-
10 005, however Hydro One does not have 2021-2027 information.

11

12 c) The requested information is not available.

13

14 d) No.

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Witness: FALTAOUS Peter

- 1 Battery energy storage systems are a form of DER that can be used to provide reliability
2 improvement to Hydro One's customers at a local level who are experiencing long
3 interruption durations. Within the 2023-2027 Distribution System Plan, Hydro One is targeting
4 installations of centralized grid-scale storage systems, as well as residential storage systems.
5 The estimated cost to deploy this solution for about 4100 customers is detailed in ISD D-SS-
6 04 Table 2-Total Investment Cost on page 8.
7
- 8 c) Hydro One aims to improve reliability for customers experiencing significant outages through
9 energy storage solutions within the 2023-2027 Distribution System Plan. The details of the
10 investment can be found in ISD D-SS-04.