

## **Responses to Technical Conference Undertakings by Dr. Heather McDiarmid re Exhibit L.ED.1**

**Undertaking No. JT3.8:** On a best efforts basis, to provide some examples of units with above a 10 HSPF, and whether those are ducted, and the tonnage

### **Response:**

Enbridge requested a list of centrally ducted ccASHP systems with HSPF of 10 or more (region V), and approximately 3 t capacity.

This list was generated from Natural Resources Canada's list of heat pumps that are eligible for the Greener Homes Grant<sup>1</sup>.

A new column was added to the list to convert the posted HSPF region IV values to region V values using a conversion factor of 1.15<sup>2</sup>. The majority of Ontario's population is located in region V according to NRCan<sup>3</sup>.

The following filters were applied to the Natural Resources Canada list:

- HSPF region IV 11.5 or better (equivalent to HSPF region V 10 or better)
- Rated heating capacity of 30,000-40,000 BTU/hr
- Grant amount \$5,000
  - this excludes split systems that are listed as
    - \$2,500: 2 indoor heads; \$4,000: >=3 indoor heads
    - \$2,500: 2 indoor heads; \$5,000: >=3 indoor heads

There are 153 heat pump systems that meet these criteria on this list.

Note that this list does not include all units available in the Canadian market. Natural Resources Canada has a broader list of units available in the Canadian market online that appears to contain additional units meeting the criteria in Enbridge's undertaking request. However, I was unable to determine in the time available which units and how many units in that broader list are compatible with an air handler attached to a central ducting system.

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<sup>1</sup> [https://oee.nrcan.gc.ca/pml-lmp/index.cfm?language\\_lange=en&action=app.search-recherche&appliance=ASHP1\\_GH](https://oee.nrcan.gc.ca/pml-lmp/index.cfm?language_lange=en&action=app.search-recherche&appliance=ASHP1_GH)

<sup>2</sup> Government of Canada. (2020). *Split system central air conditioners and heat pumps*. Retrieved <https://www.nrcan.gc.ca/energy-efficiency/energy-efficiency-regulations/guide-canadas-energy-efficiency-regulations/split-system-central-air-conditioners-and-heat-pumps/6895>

<sup>3</sup> Natural Resources Canada. (2021). *Assessing residential air conditioners/heat pumps energy performance in Canada*. Retrieved from <https://www.hrai.ca/uploads/userfiles/files/final%20-%20ahri%20unitary%20regulatory%20committee%20-%20nrcan%20presentation%20-%202021-01.pdf>