

Q. Reference: 2026 GRA – Volume 1, Section 1.3.1 The Electricity System

Citation #1:

2026 GRA – Volume 1, Figure 1-1: Electricity System, p. 39 pdf



Figure 1-1: Electricity System

Citation #2:

2026 GRA – Volume 1, Section 1.3.1 The Electricity System, page 40 pdf

“On the Labrador Interconnected System, Hydro supplies customers in Labrador East and Labrador West with Recapture Energy and TwinCo Block Energy purchased from Churchill Falls. When Recapture Energy can be exported for the benefit of customers, domestic electricity demand is instead met using generation from Muskrat Falls. This approach enables additional Recapture Energy exports to external markets and maximizes the value of Hydro’s hydrological resources for customers. Hydro also relies on the Happy Valley-Goose Bay GT, which is typically dispatched only when electricity demand or reserve requirements cannot be met.”

1 Citation #3:

2 Rate Mitigation Options and Impacts, PUB-Nalcor-129, Attachment 1

3 (<http://www.pub.nf.ca/applications/2018/2018ratemitigation/responses/PUB-Nalcor-129.pdf>)

4 Preamble

5 Figure 1-1 is not consistent with the system maps typically filed by NLH in regulatory
6 proceedings (e.g., in response to PUB-Nalcor-129 Rate Mitigation Options and Impacts
7 Reference). It lacks important details respecting the LIS and IIS that are relevant to this
8 proceeding and that have changed substantially since the previous 2017 GRA. The description in
9 section 1.3.1 also lacks important details concerning changes to the LIS since the last GRA, and
10 updated descriptions of the interconnectivity of the LIS for the purposes of understanding
11 options for reliably serving the existing and future needs of the LIS and the IIS in a least-cost
12 manner.

13 **a)** Please provide detailed, up-to-date and separate maps of the LIS and IIS networks,
14 similar to those found in Citation 3, including the following:

- 15 **i.** Geographical details, including municipalities, First Nations, waterbodies, etc.;
- 16 **ii.** Transmission control regions (e.g., NLSO, NLH, NP, etc.);
- 17 **iii.** All transmission lines, including voltages, type (AC/DC), asset identifications (e.g.
18 L2304, etc.), ownership (NLH, LTC, NP, other) and operational status (e.g., if
19 decommissioned or inoperable);
- 20 **iv.** Interconnections with other provinces;
- 21 **v.** Substations, including type (e.g., terminal, switching, electrodes, etc.),
22 ownership and operational status; and
- 23 **vi.** All remote and interconnected generating stations, including type, installed
24 capacity, ownership

25 **b)** Please confirm that power from Churchill Falls is available at the Normand substation in
26 Quebec.

1 **c)** Please describe the potential for power purchases from Hydro-Québec to meet
2 Labrador West load growth.

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4
5 A. **a)** Newfoundland and Labrador Hydro's ("Hydro") most recent detailed system maps are
6 available on its website at the following links:

- 7 • Newfoundland Grid: [Provincial Generation and Transmission Grid](#); and
- 8 • Labrador Grid: [Provincial Generation and Transmission Grid](#).

9 **b)** Hydro cannot confirm that power from Churchill Falls is available at the Normand Substation
10 in Québec at this time.

11 **c)** Please refer to Hydro's response to part f) of LAB-NLH-006 of this proceeding.