

Q. Reference PUB-NLH-279: Please state whether or not Hydro expects to provide sufficient generation capacity within the IIS so that the peak demand could be met at all times in the absence of the LIL but with support from ML. If the answer is no, please provide an estimate of the additional cost that the provision of this level of generation would incur and estimate the extra annual cost that would have to be recovered from the average domestic consumer. In the response state what would the maximum power and energy delivered via the ML be and how often statistically would import via the ML be required.

A. Hydro has not yet completed its review of the generation capacity planning criteria to be applied following the interconnections via the ML and LIL which will lead to the identification of new generation capacity additions. In the absence of the LIL the existing generation plus support from the MIL would be sufficient to meet demand until 2024 (see Table 2). In order to continue to meet the peak demand under these conditions, additions as noted in Table 1 and Table 2 would be required. Additions are required due to both increases in the load forecast and to asset retirements such as the Stephenville CT in 2025 and the Hardwoods CT in 2028.

Generation Additions

Year	Addition
2024	1 x 100 MW CT
2027	1 x 100 MW CT
2030	1 x 50 MW CT
2033	1 x 50 MW CT

Table 1

- 1 The extra annual cost that would have to be recovered from the average domestic¹
 2 consumer is shown in Figure 1.

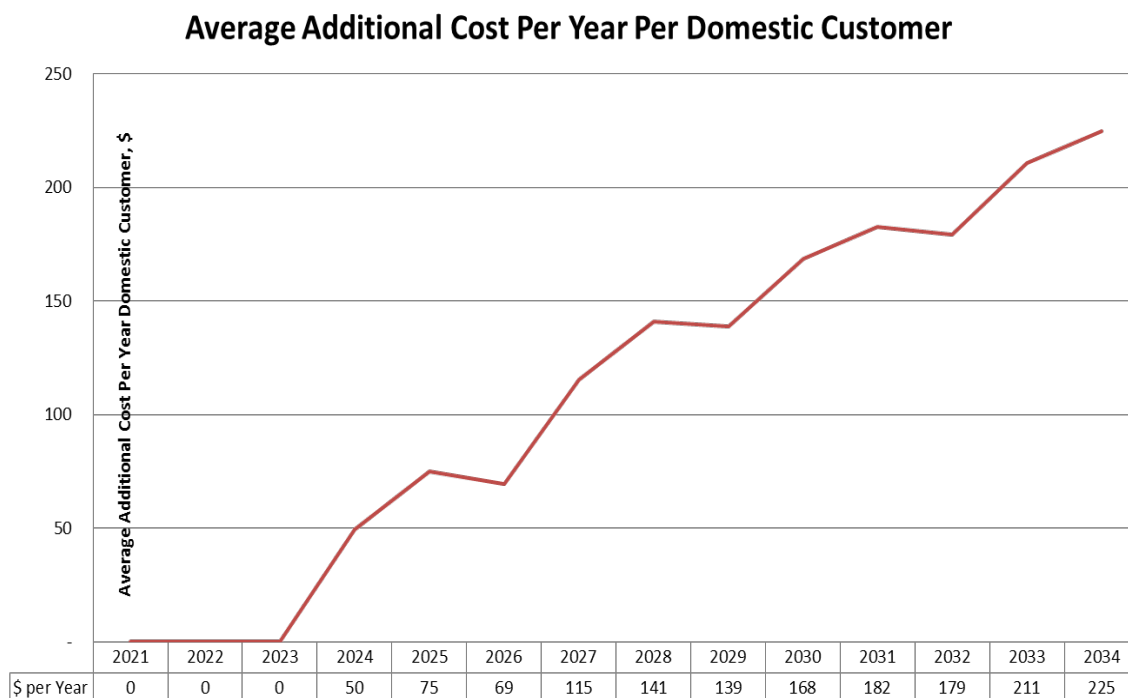


Figure 1

- 3
 4 Based on demand and unavailable generation at any given time, up to 300 MW (the
 5 capacity of the ML) could be required from the ML. The maximum energy required
 6 would depend on the requirements of the IIS. Table 3 gives the average annual
 7 energy expected over the ML during an emergency situation.

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 9 It is difficult to determine statistically how often imports would be required via the
 10 ML, but the results of Table 3 would indicate that on average full load over the ML
 11 would be required less than an hour or two per year.

¹ Domestic in this instance is interpreted as residential customers.

Year	Total MIL Energy
	GWH
2020	0.2
2021	0.2
2022	0.2
2023	0.2
2024	0.2
2025	0.2
2026	0.2
2027	0.2
2028	0.2
2029	0.3
2030	0.4
2031	0.4
2032	0.4
2033	0.5
2034	0.6
2035	0.6

Table 3