

1 Q. Consumer Question: Nalcor has indicated in PUB-Nalcor-158 that CTs and CCTs are
2 more expensive on a per MWh basis than Holyrood. Why then does Nalcor not
3 include within its Isolated Island option a fourth Holyrood turbine at Holyrood or at
4 a greenfield site rather than the 170MW CCCT scheduled for 2022? Would placing
5 such a turbine at a greenfield site near the Come-by-Chance refinery or the Vale
6 facility be advantageous?

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9 A. Nalcor did not include a fourth Holyrood unit in its Isolated Island option rather
10 than the 170MW CCCT scheduled for 2022 because overall, including capital costs
11 and operating costs, the 170 MW CCCT is the most cost-effective choice.

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13 In PUB-Nalcor-158, when Nalcor indicates that CTs and CCTs are more expensive on
14 a per MWh basis than Holyrood, this is only based on the cost of fuel required to
15 produce a MWh. However, the capital cost to construct a fourth Holyrood type unit,
16 including costs for pollution control equipment such as scrubbers and ESPs, is much
17 greater than the cost to construct the proposed 170 MW CCCT. The savings in fuel
18 costs if the fourth Holyrood unit was constructed would not outweigh the
19 additional capital costs, so the 170 MW CCCT is optimal choice overall.

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21 Many factors would come into play in determining whether placing such a facility at
22 a greenfield site near the Come-by-Chance refinery or the Vale facility would be
23 advantageous. These include various environmental, technical and economic
24 considerations. NL Hydro would not be able to determine the optimal site for this
25 facility without carrying out a siting study and therefore cannot provide an answer
26 to this question at this time.