

1 Q. Please provide a list of alternative supply options for the current generation
2 requirement such as wind power.

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5 A. Many alternative supply options were considered for the current generation
6 requirement.

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8 As noted in *Nalcor's Submission to the Board of Commissioners of Public Utilities*
9 *with respect to the Reference from the Lieutenant-Governor in Council on the*
10 *Muskrat Falls Project – November 10, 2011* (the "Submission"), in the Phase 1
11 screening, the following options were considered for generation expansion (Section
12 4.0 Identification of Alternatives and Phase 1 Screening):

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14 ○ Nuclear;
15 ○ Natural Gas;
16 ○ Liquefied Natural Gas;
17 ○ Coal;
18 ○ Continued Oil-Fired Generation at the Holyrood Plant;
19 ○ Simple Cycle Combustion Turbine;
20 ○ Combined Cycle Combustion Turbine;
21 ○ Wind;
22 ○ Biomass;
23 ○ Solar;
24 ○ Wave and Tidal; and
25 ○ Island Hydroelectric.

In Phase 2, these alternatives were reduced to the following:

- Combined Cycle Combustion Turbine;
- Simple Cycle Combustion Turbine;
- Wind; and
- Island Hydroelectric.

These alternatives were studied and as reported in System Planning's *Generation Planning Issues - November 2012* report (Appendix C of the Report), the analysis indicated that, based on available generation options, the least cost long term option to meet the additional capacity requirement in 2015 was a combustion turbine.

As noted in the Report, customer demand side alternatives were also considered, including:

- Conservation and Demand Management (CDM)
- Interruptible Contracts