

1 Q. Reference: ESRA Nov. 2016, Appendix D, page 1 – IIS Generation Supply Table.

2 Question:

3 Please provide a footnotes referred to in the table.

4 Please provide similar IIS Generation Supply Table for the post-interconnection  
5 period, indicating the MW values used by Hydro for planning purposes with regard  
6 to the Power Purchase Agreement with the Muskrat Falls Corporation.

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9 A. Please see GRK-NLH-141 Attachment 1 which provides the footnotes referred to in  
10 Hydro's Energy Supply Risk Assessment Update, November 30, 2016, Appendix D,  
11 page 1 – IIS Generation Supply Table.

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13 Hydro's Energy Supply Risk Assessment is an evaluation of Hydro's supply risk prior  
14 to interconnection to the North American grid. As noted in Section 1.0 Executive  
15 Summary of Hydro's Energy Supply Risk Assessment:

16 *Newfoundland and Labrador Hydro (Hydro) has conducted a*  
17 *comprehensive risk assessment of its ability to meet Island*  
18 *Interconnected System (IIS) energy and demand requirements until*  
19 *the expected interconnection with the North American grid.*

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21 As such, the post-interconnection period is out-of-scope for this analysis.

## Island Interconnected System Generation Supply Notes

### Notes:

1. Unless otherwise noted, this is the minimum of the turbine rating or the generator rating at rated power factor.
2. Units at Cat Arm are adjusted as a plant generation of 134 MW is the maximum that can be sustained based on experience.
3. Ratings of the Holyrood units based on long standing published values. To determine net generation subtract station service of 24.5 MW (when all units are operating).
4. The units were permanently de-rated to 50 MW at the end of 2012.
5. This unit was released for service on February 27, 2015, available to the Island system and included in the overall generation capacity and reserves.
6. No peaking capability assumed for the Rattle Brook Unit (only the current day's generation). Generation output will fluctuate depending on available inflows.
7. Generation output will fluctuate when Capacity Assistance arrangements are in place, depending on mill steam requirements. (see note 15 below). Generation can be reduced significantly when a large amount of load is curtailed. Otherwise, 8 MW is assumed on peak except for the current day when current day generation is used.
8. Nalcor Grand Falls, Bishop's Falls and Buchans nameplate data taken from Statistics Canada survey data.
9. No peaking capability assumed for the wind generation (only the current day's generation). Generation output will fluctuate based on the wind levels.
10. There are capacity assistance arrangements in place with Vale for the 2015/2016 winter peak demand period for up to 10.8 MW of standby diesel generation.
11. These are the generation capacities indicated by Newfoundland Power in "Maximum Load Rating" column of their daily generation status reports.
12. Overall Newfoundland Power generation adjusted to the current cost of service credit amount (117.9 MW). Water adjustments are done separately on an operational basis.
13. Includes 60 Hz generation (DLP G1-7) and the 60 cycle output of the CBPP frequency converter.
14. The 16 MW peak black start diesel plant at Holyrood of which, 10 MW can be made available to the grid for peaking power.
15. Reserves are calculated in consideration of generation supply capability and the load forecast which is adjusted for the load reduction strategies. Load reduction is through the capacity assistance with Corner Brook Pulp and Paper for up to 90 MW of load curtailment at the Corner Brook mill (winter period only) and system voltage reduction (up to 20 MW).