

1 Q. **Wind power**

2 **Re: Amended Application, p.2.10, lines 8-28**

3 Please provide a copy of the most recent report concerning the Ramea project, as
4 well as any other document that assesses the technical and financial suitability of
5 the Wind-Hydrogen-Diesel System for future developments.

6

7

8 A. As indicated in Section 2.2.4 of the Regulated Activities Evidence to Hydro's
9 Amended Application: "[t]he Ramea Wind-Hydrogen-Diesel facility is a Research
10 and Development (R&D) project, the capital cost for which were not incurred by the
11 ratepayer." As the costs are not borne by the ratepayer, reports regarding the
12 Ramea project are not relevant to the current proceeding.

13

14 In accordance with Order No. P.U. 31(2007), an update on the Ramea Wind-
15 Hydrogen-Diesel Project is included in Newfoundland and Labrador Hydro's
16 Quarterly Regulatory Report. The portion of the quarterly report for the period
17 ending December 31, 2014 relating to the Ramea project is attached as IN-NLH-266
18 Attachment 1.

5 OTHER ITEMS

5.1 Ramea Wind-Hydrogen-Diesel Project Update



Overview of Ramea WHD site with the town in the background

In accordance with Order No. P.U. 31(2007), the following update is provided on the Wind-Hydrogen-Diesel Project for Ramea.

Implementation and Operation

Preliminary engineering and design work for Phase II of the project continued during the reporting period. Detailed engineering design and construction for Phase II will begin in 2015. The Operational Phase will follow the successful installation and integration of the fuel cell.

Capital Costs

(\$000)

Actual Cost to December 2013	Actual Cost Recoveries to December 2013	Net Cost to December 2013	Budget to December 2008	Budget Reforecast to September 2010
11,869	11,869	0	8,794	2,486

Operating Costs

The Operational Phase of the project is planned to start after the installation and integration of the fuel cell in Phase II.

During Phase I of the project, technical challenges associated with the Hydrogen Genset delayed the start of the Operations Phase. In order to perform and track preventative and corrective maintenance on project equipment, an operating business unit was created. Costs associated with this business unit will be reported. Costs associated with the Operational Phase will be reported once that phase has begun.

Work this year included preventative and corrective maintenance on the three wind turbines.

(\$000)		
Approved Budget 2014	Actual Amount to December 31, 2014	Total Commitments to December 31, 2014
203.0	176.9	176.9

Reliability and Safety Issues

There is nothing to report for this period.