

1 Q. **Reference: Regulated Activities**

2 Please extend Regulated Activities Schedules I, II, III, IV, V, VI, VII, VIII to include  
3 2016 forecasts.

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6 A. Please refer to NP-NLH-011 Attachment 1 for the 2016 forecast for Regulated  
7 Activities Schedule I. Please see NP-NLH-011 Attachment 2, which contains the  
8 Regulated Activities Schedules II, III, IV, V, VI, VII, VIII - extended to include the 2016  
9 and 2017 forecasts.

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11 The financial forecast information for 2017 was prepared using Hydro's long-term  
12 financial planning model. The long-term financial planning model used to prepare  
13 this forecast provides a directional, high-level view over the period 2017 and does  
14 not provide the level of detail necessary to complete Regulated Activities Schedule I  
15 for 2017.

Newfoundland and Labrador Hydro Operating Expenses by Functional Area (\$000's)								Regulated Activities Schedule I Page 1 of 1
	2007 Actual	2013 Actual	2014 Test Year	2014TY - 2007 Actual Change	2015 Test Year	2015TY - 2007 Actual Change	2016 Forecast	2016F - 2015TY Actual Change
<b>Operations</b>								
Thermal Generation	20,870	21,220	22,644	1,774	23,984	3,114	24,583	599
Deferred Major Extraordinary Repairs	2,109	-	-	(2,109)	-	(2,109)	-	-
Deferred Regulatory Costs	-	-	-	-	1,044	1,044	1,044	-
Hydro Generation	9,112	10,959	11,871	2,759	12,438	3,326	12,749	311
<b>Generation</b>	32,091	32,179	34,515	2,424	37,466	5,375	38,376	910
System Operations and Planning <sup>1</sup>	2,920	3,753	3,604	684	5,765	2,845	4,833	-
Deferred Regulatory Costs	50	-	-	- 50	-	- 50	-	-
<b>System Operations and Planning</b>	2,970	3,753	3,604	634	5,765	2,795	4,833	(932)
Transmission & Rural Operations	34,541	48,210	51,756	17,215	56,660	22,119	58,352	1,692
Deferred Major Extraordinary Repairs	-	-	-	-	249	249	249	-
<b>Transmission &amp; Rural Operations</b>	34,541	48,210	51,756	17,215	56,909	22,368	58,601	1,692
<b>Total Operations</b>	69,602	84,142	89,875	20,273	100,140	30,538	101,810	1,670
<b>Corporate Services</b>								
Project Execution and Technical Services <sup>1</sup>	4,186	2,949	3,661	(525)	4,176	(10)	4,280	104
Deferred Regulatory Costs	61	-	-	(61)	-	(61)	-	-
Finance	11,908	11,753	17,561	5,653	15,997	4,089	15,843	-
Deferred Regulatory Costs	223	-	-	(223)	333	110	333	-
Allocation to non-regulated customer	(2,679)	(2,021)	(1,926)	753	(1,387)	1,292	(1,359)	28
Human Resources & Organizational Effectiveness	6,608	7,346	8,153	1,545	9,398	2,790	9,610	212
Leadership & Associates	2,762	1,534	2,031	(731)	1,986	(776)	2,559	573
Corporate Relations	5,022	6,109	6,713	1,691	7,536	2,514	7,725	189
<b>Total Corporate Services</b>	28,091	27,670	36,193	8,102	38,039	9,948	38,990	951
<b>Operating Expenses</b>	<b>97,693</b>	<b>111,812</b>	<b>126,068</b>	<b>28,375</b>	<b>138,179</b>	<b>40,486</b>	<b>140,800</b>	<b>2,621</b>

<sup>1</sup> Tables and certain numbers have been restated to reflect the transfer of Systems Planning Group formerly in Project Execution and Technical Services to Systems Planning.

**Newfoundland and Labrador Hydro**  
**Forecast Electricity Requirements for 2016 and 2017**  
**Island Interconnected System**

**Regulated Activities**  
**Schedule II - Extension**  
**Page 1 of 1**

	2016 Forecast		2017 Forecast	
	<u>MW</u>	<u>GWh</u>	<u>MW</u>	<u>GWh</u>
Newfoundland Power	1,324.4	5,954.5	1,337.0	5,989.3
Hydro Rural Interconnected	95.0	462.2	93.8	446.9
Industrial Customers	93.5	777.9	111.0	873.5
Total Deliveries	1,488.3	7,194.6	1,515.4	7,309.7
Transmission Losses	52.1	236.0	53.0	239.6
<b>Hydro Island Requirement</b>	<b>1,540.4</b>	<b>7,430.6</b>	<b>1,568.4</b>	<b>7,549.3</b>

## Notes:

1. Required NLH Net Generation MW's are NLH system coincident MW's and include customer firm demand requirements only.
2. Demands for Total Deliveries and Transmission Losses are coincident with system peak.
3. The 2016 and 2017 Forecasts are sourced to the November 2014 Island Interconnected Operating Load Forecast.

**Newfoundland and Labrador Hydro**  
**Forecast Electricity Requirements for 2016 and 2017**  
**Labrador Interconnected System**

**Regulated Activities**  
**Schedule III - Extension**  
**Page 1 of 1**

	2016 Forecast		2017 Forecast	
	<u>MW</u>	<u>GWh</u>	<u>MW</u>	<u>GWh</u>
Hydro Rural Interconnected				
Happy Valley - Goose Bay	79.5	327.3	79.3	311.6
Churchill Falls	0.3	1.5	0.3	1.5
Wabush	25.2	96.6	22.7	91.1
Labrador City	62.7	253.9	57.9	240.0
Total	167.7	679.3	160.2	644.2
Department of National Defence	-	10.2	-	10.2
Iron Ore Company of Canada	57.0	148.2	57.0	148.2
Wabush Mines	4.0	6.0	4.0	6.0
Total Deliveries	202.1	843.8	195.6	808.7
Transmission Losses	25.4	52.6	24.6	50.0
<b>Hydro Labrador Requirement</b>	<b>227.5</b>	<b>896.4</b>	<b>220.2</b>	<b>858.7</b>

## Notes:

1. Demands for Total Deliveries and Transmission Losses are coincident with system peak.
2. Sales to the Department of National Defence and Wabush Mines are secondary sales.
3. Sales to Iron Ore Company of Canada include both firm and non-firm sales. The forecast assumes 62 MW firm power requirement.
4. The 2016 and 2017 Forecasts are sourced to the November Labrador Operating Load Forecast.

**Newfoundland and Labrador Hydro**  
**Forecast Electricity Requirements for 2016 and 2017**  
**Isolated Systems**

**Regulated Activities**  
**Schedule IV - Extension**  
**Page 1 of 1**

	2016 Forecast		2017 Forecast	
	<u>kW</u>	<u>MWh</u>	<u>kW</u>	<u>MWh</u>
<b>Labrador Isolated</b>				
Davis Inlet	-	-	-	-
L'Anse au Loup	5,736	25,212	5,796	25,438
Others	10,558	45,384	10,703	46,007
<b>Total (excluding Davis Inlet)</b>	16,294	70,596	16,499	71,445
<b>Island Isolated</b>	2,253	<u>7,611</u>	2,243	<u>7,577</u>
<b>Total Isolated</b>		<u><u>78,207</u></u>		<u><u>79,022</u></u>

## Notes:

1. Peaks are non-coincident net annual maximums.
2. Net production excludes station services.
3. Operations ceased at Davis Inlet in early 2006, when the community moved to Natuashish.
4. Natuashish is operated by Hydro for the Mushuau Innu First Nation (MIFN) with full cost recovery.
5. The 2016 and 2017 forecast is sourced to the Spring 2013 Rural Operating Load Forecast.

**Newfoundland and Labrador Hydro  
Forecast Energy Supply and Fuel Expense for 2016 and 2017  
Island Interconnected System**

**Regulated Activities  
Schedule V - Extension  
Page 1 of 1**

	<b>2016 Forecast</b>	<b>2017 Forecast</b>
Total Energy Requirement (GWh)	7,430.6	7,549.3
Hydraulic Production (GWh)	4,730.9	4,981.9
Energy Receipts and Purchases (GWh)	1,031.1	1,031.1
Gas Turbine/Diesels Production (GWh)	17.9	27.3
Holyrood Production (GWh)	1,650.7	1,508.9
Holyrood No. 6 Fuel Conversion Factor (kWh/bbl)	606	599
Holyrood No. 6 Fuel Consumption (bbl)	2,723,894	2,519,097
Average No. 6 Fuel Purchase Price (\$/bbl)	\$90.20	\$89.60
No. 6 Fuel Production Cost (\$000)	\$246,714	\$226,881
Gas Turbine/Diesel Production Cost (\$000)	\$5,391	\$8,067

Notes:

**Newfoundland and Labrador Hydro  
Forecast Energy Purchases by Suppliers for 2016 and 2017  
Island Interconnected System**

**Regulated Activities  
Schedule VI - Extension  
Page 1 of 1**

Supplier	2016 Forecast		2017 Forecast	
	<u>GWh</u>	<u>000's</u>	<u>GWh</u>	<u>000's</u>
NP at Hydro Request	-	\$ -	-	\$ -
CBPP Secondary	-	\$ -	-	\$ -
ACI-GF Secondary <sup>(1)</sup>	-	\$ -	-	\$ -
Star Lake <sup>(3)</sup>	142.18	\$ 5,687	142.18	\$ 5,687
Rattle Brook	15.00	\$ 1,270	15.00	\$ 1,287
Corner Brook Cogen	51.07	\$ 10,295	51.70	\$ 10,308
Exploits River Project	-	\$ -	-	\$ -
St. Lawrence Wind	104.80	\$ 7,546	104.80	\$ 7,577
St. Lawrence Wind Ecoenergy Incentive Credit <sup>(2)</sup>		\$ (621)		\$ (621)
Fermeuse Wind	84.41	\$ 6,522	84.41	\$ 6,548
Fermeuse Wind Ecoenergy Incentive Credit <sup>(2)</sup>		\$ (621)		\$ (621)
Nalcor Grand Falls, Bishops Falls and Buchans <sup>(3)</sup>	633.63	\$ 25,345	633.64	\$ 25,346
CBPP Capacity Assistance	-	1,680	-	2,100
Vale Capacity Assistance	-	442	-	553
<b>Total Power Purchases</b>	<u>1,031.09</u>	<u>\$ 57,546</u>	<u>1,031.73</u>	<u>\$ 58,164</u>

## Notes:

1. ACI-GF secondary ceased on February 12, 2009
2. Ecoenergy Incentive Credits are paid to Hydro quarterly at \$0.0075/kwh on the eligible production (up to a maximum of 82.78 GWh annually)
3. Energy purchased from Nalcor generation at Grand Falls, Bishop's Falls, Buchans and Star Lake in 2016 and 2017 assumed at \$0.04/kWh.

**Newfoundland and Labrador Hydro**  
**Monthly No. 6 Fuel Purchase Prices for 2016 and 2017**  
**(\$/bbl)**

**Regulated Activities**  
**Schedule VII - Extension**  
**Page 1 of 1**

	<b>2016 Forecast<sup>(1)</sup></b>	<b>2017 Forecast<sup>(2)</sup></b>
January	\$90.20	\$89.60
February	\$90.20	\$89.60
March	\$90.20	\$89.60
April	\$90.20	\$89.60
May	\$90.20	\$89.60
June	\$90.20	\$89.60
July	\$90.20	\$89.60
August	\$90.20	\$89.60
September	\$90.20	\$89.60
October	\$90.20	\$89.60
November	\$90.20	\$89.60
December	\$90.20	\$89.60
Weighted Purchase Price	\$90.20	\$89.60

## Notes:

1. 2014 Pricing is as per the PIRA Energy Group, World Oil Market Forecast, Sept 26, 2014
2. 2015 Pricing is as per the PIRA Energy Group, World Oil Market Forecast, Sept 26, 2014



**Newfoundland and Labrador Hydro**  
**Forecast Isolated Fuel and Purchased Power Costs for 2016 and 2017**  
**(000's)**

**Regulated Activities**  
**Schedule VIII - Extension**  
**Page 1 of 1**

	2016	2017
	Forecast	Forecast
<b>Diesel Fuel</b>		
Davis Inlet		
Other Hydro Diesel	\$ 18,355	\$ 18,336
Total (excluding Davis Inlet)	\$ 18,355	\$ 18,336
<b>Purchased Power</b>		
L'Anse au Loup	\$ 2,969	\$ 3,017
Ramea	\$ 225	\$ 225
Mary's Harbour	\$ -	\$ -
Total	\$ 3,194	\$ 3,241
<b>Total</b>	<b>\$ 21,550</b>	<b>\$ 21,577</b>

## Notes:

1. L'Anse Au Loup fuel purchases include deferred fuel savings.
2. 2016 and 2017 Forecast sourced to August 2013 Isolated Fuel and Power Purchase budget forecast.