

1 Q. Provide a list of all consultants used by Hydro with a description of the
2 associated projects and total project consultant costs for all consultancy
3 engagements in excess of \$10,000 for the period 1992 to 2001.

4

5 A. Hydro does not record consulting costs by project or by consultant but by
6 each invoice paid. It would be extremely onerous to require Hydro to analyze
7 10 years of hundreds of transactions to provide the information as requested.
8 This demand is too broad and unfocused. Provision of the information as
9 requested is not necessary to understand the matters to be considered in this
10 proceeding.

1 Q. Provide copies of all benchmarking studies performed since 1992 relating to
2 electrical system or generating station performance.

3

4

5 A. The only benchmarking study performed was performed by Haddon Jackson
6 Associates, Inc. (HJA). Hydro engaged HJA in 2000 to do a benchmarking
7 study of all of Hydro's hydroelectric generation (referred to Bay d'Espoir in
8 the report). This study entailed collecting a large range of data and
9 submitting it to HJA. This data was compiled and analyzed by HJA along
10 with the data from 244 other stations or groups participating in the study.

11

12 Hydro is unable to provide the full text of the study results summary due to
13 confidentiality agreements with HJA and the other participants. However,
14 HJA has authorized the release of the study summary in a modified format to
15 exclude the confidential information. The report as modified is attached.

- 1 Q. Provide the Rate Stabilization Plan Summaries for May and June 2001 (DWO,
2 page 2, lines 8-9).
3
4
5 A. Please see response to IC-73.

1 Q. Provide the total levelized cost to the system in \$/kW-Yr and cents/kWh for
2 the Granite Canal project (HGB, page 10, lines 20-23).

3

4

5 A. The estimated levelized cost of the Granite Canal project is:

6 \$303.5/kW-Yr, or 5.42 cents/kWh.

1 Q. Provide the calculation used to derive the 5.9% RSP adjustment forecast for
2 2002 (DWO, page 2, line 31).

3

4 A. The calculation used to derive the 5.9% RSP adjustment forecast for 2002 is
5 as follows:

6

7 • Newfoundland Power:

8

9 ○ revenue based on projected rates for 2002:

10 $4,454,800 \text{ MWh} \times 48.00 \text{ mills/kWh} = \$213,830,400$

11

12 ○ Existing July 1, 2001 RSP adjustment 1.77 mills/kWh

13 ○ Projected July 1, 2002 RSP adjustment 4.64 mills/kWh

14 ○ Difference 2.87 mills/kWh

15

16 ○ RSP revenue based on projected rates

17 $4,454,800 \text{ MWh} \times 2.87 \text{ mills/kWh} = \$12,785,276$

18

19 ○ RSP percentage increase July 1, 2002 =

20 $\$12,785,276 \div \$213,830,400 = 5.9\%$

- 1 Q. Provide hydroelectric production, thermal production, and energy purchases
2 by year from 1992 to 2000 and forecast for 2001 and 2002 in the format set
3 forth in RJH, Schedule V.
4
5 A. See attached tables:

**NEWFOUNDLAND AND LABRADOR HYDRO
ISLAND INTERCONNECTED SYSTEM
ENERGY SUPPLY
1992 - 1995**

	Filed PUB 1991	1992 Actual	Variance from 1992 Forecast	1993 Actual	Variance from 1992 Actual	1994 Actual	Variance from 1993 Actual	1995 Actual	Variance from 1994 Actual
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh
Hydro-electric	4,211.91	4,221.58	9.67	4,439.03	217.45	5,043.58	604.55	4,392.54	(651.05)
Thermal Generation	1,844.19	1,704.79	(139.40)	1,559.19	(145.60)	778.19	(781.00)	1,533.87	755.68
Energy Purchased	0.00	4.71	4.71	6.42	1.71	2.80	(3.61)	1.84	(0.96)
Less Synchronous Condenser Use	0.00	2.24	2.24	4.66	2.42	6.40	1.74	1.00	(5.40)
Total Energy Supply	6,056.10	5,928.84	(127.26)	5,999.98	71.14	5,818.18	(181.80)	5,927.25	109.08

NEWFOUNDLAND AND LABRADOR HYDRO ISLAND INTERCONNECTED SYSTEM ENERGY SUPPLY 1996- 1999								
	1996 Actual	Variance From 1995 Actual	1997 Actual	Variance From 1996 Actual	1998 Actual	Variance From 1997 Actual	1999 Actual	Variance From 1998 Actual
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh
Hydro-electric	4,573.58	181.04	4,629.50	55.92	4,262.53	(366.97)	4,802.55	540.55
Thermal Generation	1,406.49	(127.38)	1,530.85	124.36	1,262.59	(268.27)	919.15	(343.43)
Energy Purchased	10.41	8.57	6.14	(4.27)	199.98	193.84	161.52	(38.46)
Less Synchronous Condenser Use	1.94	0.95	2.10	0.16	7.36	5.25	6.31	(1.04)
Total Energy Supply	5,988.54	61.28	6,164.39	175.86	5,717.73	(446.66)	5,876.91	159.18

NEWFOUNDLAND AND LABRADOR HYDRO ISLAND INTERCONNECTED SYSTEM ENERGY SUPPLY 2000-2002						
	2000 Actual	Variance From 1999 Actual	2001 Forecast	Variance From 2000 Actual	2002 Forecast	Variance From 2001 Forecast
	GWh	GWh	GWh	GWh	GWh	GWh
Hydro-electric	5,016.71	214.16	4,271.67	(745.04)	4,271.67	0.00
Thermal Generation	968.30	49.15	1,974.93	1,006.63	2,162.43	187.50
Energy Purchased	161.18	(0.34)	145.90	(15.28)	145.90	0.00
Less Synchronous Condenser Use	4.75	(1.57)	0.00	(4.75)	0.00	0.00
Total Energy Supply	6,141.45	264.53	6,392.50	251.05	6,580.00	187.50

- 1 Q. Provide the basis for the calculation of cost of debt applied to the RSP
 2 balance from 1992 to present (JCR, page 8, lines 12-14).
 3
 4
 5 A. See schedule below.

Summary Embedded Cost of Debt

<u>Yr. End</u>	<u>Total debt</u>	<u>Interest</u>	Percent <u>Semi</u>	Published Annual <u>Rate</u>
1989	1,072,910	114,321	10.66%	10.70%
1990	1,137,366	123,886	10.89%	11.00%
1991	1,121,242	119,496	10.66%	11.00%
1992	1,095,761	116,008	10.59%	10.90%
1993	1,081,005	108,998	10.08%	10.30%
1994	1,047,890	109,041	10.41%	10.70%
1995	1,081,181	102,193	9.45%	9.70%
1996	1,113,368	104,347	9.37%	9.60%
1997	1,146,954	100,566	8.77%	8.95%
1998	1,107,616	95,240	8.60%	8.80%
1999	1,071,523	89,676	8.37%	8.55%
2000	1,121,288	92,457	8.25%	8.40%

Notes:

1. Long term debt figures are net of sinking funds
2. Rates as determined above are applied to balances in the following
3. The published annual rate is derived from the semi-annual which is lower due to the benefit of mid year compounding.

1 Q. From HGB, Schedule V, explain the reason for the increase in losses for
 2 2002 (see below):

		<i>Increased Losses</i>		
<i>Year</i>	<i>Increase in Sales over previous year</i>	<i>Increase in Losses over previous year</i>	<i>as a % of Change in Sales</i>	
8 2001	244.6 GWh	6.4 GWh	2.62%	
10 2002	171.1 GWh	16.5 GWh	9.64%	

11
 12 A. As explained on page 6 of the direct evidence of H.G. Budgell, starting in
 13 2002, the forecast for bulk deliveries to Hydro Rural Interconnected in
 14 Schedule V reflects changes in bulk metering. This modification results from
 15 a change in assignment of plant relating to the 1995 PUB recommendation
 16 arising from the Inquiry on Rural Electrical Service “that both generation
 17 assets and the 138 kV transmission line on the Great Northern Peninsula be
 18 assigned, on a provisional basis, as being of common benefit to all
 19 Interconnected Customers and that sub-transmission costs (for lines whose
 20 voltage is below 138 kV) be specifically assigned” (H.G. Budgell Direct
 21 Evidence, page 15).

22
 23 The assignment of the GNP 138 kV transmission losses to common starting
 24 in 2002 increases common losses.

1 Q. Explain the 77 MW reduction in demand forecast for 2007 (HGB, Schedule
2 VIII).

3

4 A. The demand forecast for 2007 in HGB, Schedule VIII of 1596 MW contains a
5 typographical error. The correct demand number should be 1696 MW.

1 Q. McShane states on pages 13 and 14 of her evidence “Hydro elected to
2 charge retained earnings for the entire amount of the transitional obligation,
3 thus creating a liability for future employee benefits. By comparison, many
4 Canadian utilities are amortizing the transitional obligation over the remaining
5 employee service life, as permitted under the CICA guidelines, and seeking
6 to recover the transitional obligation from rate payers over the amortization
7 period.”

8

9 (a) Why has Hydro chosen this approach in accounting for future
10 employee benefits?

11

12 (b) Provide a projection of the impact on revenue requirement for each
13 year from 2002 to 2006 if Hydro had elected to amortize the
14 transitional obligation over the remaining employee service life.

15

16 (c) Provide a projection of the impact on revenue requirement for each
17 year from 2002 to 2006 if Hydro had elected to account for employee
18 future benefits on a cash basis rather than an accrual basis of
19 accounting.

20

21 A. (a) In 2000 Hydro complied with the Canadian Institute of Chartered
22 Accountants (CICA) recommendation to account for Employee Future
23 Benefits (EFB) on an accrual rather than a cash basis. The accrual
24 method provided for two options to account for EFBs, namely the
25 Retroactive Application approach or the Prospective Application
26 approach. Hydro has chosen the Retroactive Application approach
27 and has charged retained earnings for the entire amount of the
28 transitional obligation for future employee benefits in 2000. It was felt

1 that an adjustment to retained earnings achieves the best matching of
2 costs and revenues, since the transitional balance has arisen from
3 employee service in prior periods and is not related to the activity of
4 current or future periods. In addition adoption of the prospective
5 approach would have resulted in a higher revenue requirement as
6 outlined in (b) below.

7

8 (b) If Hydro had elected to amortize the transitional obligation over the
9 remaining employee service life the revenue requirement in each of
10 the years 2002 to 2006 would have to increase by approximately \$1.8
11 million.

12

13 (c) Based on a projection of future retirements, the amount that would be
14 included in revenue requirement on a cash basis is estimated to be as
15 follows:

16	2002	1,199,000
17	2003	1,074,000
18	2004	1,174,000
19	2005	1,215,000
20	2006	1,648,000

- 1 Q. Provide details of the following charges as provided in the Projected
 2 Statement of Cash Flows (JCR, Schedule XIII):
 3 (a) amortization of deferred charges;
 4 (b) changes in working capital balances;
 5 (c) reductions (additions) to deferred charges; and
 6 (d) other.

7
 8 A. (a) Details of the amortization of deferred charges is as follows:

	2001	2002
10 Debt discount and		
11 issue expenses	\$ 1,143,000	\$ 1,175,000
12 Foreign exchange loss		
13 amortization		2,157,000
14	<u>\$ 1,143,000</u>	<u>\$ 3,332,000</u>

15
 16 (b) Details of changes in working capital balances are as follows:

	2001	2002
19 Decrease (increase) in		
20 account receivable	\$ (1,055,000)	\$ (1,342,000)
21 Decrease in		
22 fuels and supplies	2,180,000	223,000
23 Decrease (increase) in		
24 prepaids	(337,000)	321,000
25 Decrease in accounts		
26 payable	(3,216,000)	(3,770,000)
27 Increase (decrease) in		
28 accrued interest payable	(761,000)	2,228,000
29 Increase in employee		
30 future benefits	703,000	1,569,000
31 Decrease in bank		
32 indebtedness	(3,988,000)	
33	<u>\$ (6,474,000)</u>	<u>\$ (771,000)</u>

34

1 (c) The additions to deferred charges are for debt discount and issue
 2 expenses related to new debt issues and the details are as follows:

3			
4	<u>Issue</u>	<u>2001</u>	<u>2002</u>
5	5.3% due 2006	\$ 530,000	
6	6.25% due 2031	1,252,000	
7	5.50% due 2007		\$ 530,000
8	6.10% due 2012		<u>1,991,000</u>
9		<u>\$ 1,782,000</u>	<u>\$ 2,521,000</u>

10
 11 (d) Details of other is as follows:

12			
13		<u>2001</u>	<u>2002</u>
14	Foreign exchange loss provision	\$ 1,000,000	
15	Proceeds from disposal of		
16	capital assets	156,000	\$ 164,000
17	Loss on disposal of		
18	capital assets	<u>1,175,000</u>	<u>791,000</u>
19	Other, revised	2,331,000	955,000
20	Capital asset classification error	<u>(230,000)</u>	<u>376,000</u>
21	Other, JCR, Schedule XIII	<u>\$ 2,101,000</u>	<u>\$ 1,331,000</u>

1 Q. Provide a statement of income for 2001 and 2002 on the same basis as
2 provided in JCR, Schedules XI to XIII.

3

4 A. The statement of income as requested is as follows:

5

6 Newfoundland and Labrador Hydro

7 Projected Statement of Income

8 (Excluding CF(L)Co, LCDC and Contributed Capital - Muskrat Falls)

9

10 As at December 31 (thousands of dollars)

11

12

13

14

Revenue

15

Energy sales

2002

2001

321,228

294,912

16

Other

1,072

1,099

17

322,300

296,011

18

19

Expenses

20

Net operating

89,762

90,204

21

Fuels

82,288

51,451

22

Power purchased

15,266

15,333

23

Depreciation

31,790

32,738

24

Interest

93,584

92,558

25

312,690

282,284

26

Net income

9,610

13,727

1 Q. Provide a comparison of budget and actual capital expenditures for the
2 period 1992 to 2000 by class of assets.

3

4

5 A. See attached schedules, which provide a comparison of budget and actual
6 capital expenditures.

1 Q. For the budget items below, answer the following questions or provide the
2 information as appropriate.

3

<u>Budget item</u>	<u>Amount</u>	<u>Description</u>
B – 10	\$1,555, 000	Install 25 kV Distribution Line - Ebbegunbaeg

7

8 (a) Provide the cost benefit study that supports this expenditure.

9 (b) Will construction of the line result in the removal of all local diesel
10 generation?

11 (c) Provide a detailed cost estimate of the project, including a breakdown
12 by line and termination equipment and further by material and labor
13 identifying internal labor and contract labor separately.

14 (d) Identify the portions of construction that are forecast to be contracted
15 out.

16

17 A (a) Analysis was undertaken to determine the most economical source of
18 electrical supply for the control/intake structures at Ebbegunbeag (see
19 analysis and graph attached). The 20-year analysis compared the cost
20 of continuing to supply service through the use of onsite generation
21 against the cost of constructing a 20 km tap from an existing
22 distribution line at the Upper Salmon facility. The continued diesel
23 system option takes into account the capital costs for building, fuel
24 system and fire system protection replacement in 2002, and the
25 replacement of generation in 2010, along with associated O&M costs.
26 The distribution line option considers capital and maintenance costs
27 for the line, O&M costs for a standby diesel, along with the cost of grid
28 energy. The analysis concludes the net cumulative present worth

1 savings for the line extension to be approximately \$440,000 (\$2001),
2 with a payback period of 9 years, and a benefits-to-costs ratio of 1.25.

3

4 (b) No, one of the existing diesel units will remain to provide backup.

5

6 (c) The project requires only a distribution line extension, no terminal
7 station work is involved. The cost breakdown is as follows;

8

9	Material Supply	\$400,000
---	-----------------	-----------

10	Labor	\$570,000
----	-------	-----------

11	Engineering	\$ 75,000
----	-------------	-----------

12	Project Management	\$ 20,000
----	--------------------	-----------

13	Inspection & Commissioning	\$ 70,000
----	----------------------------	-----------

14	Corporate O/H, IDEC, Esc., Contingency	\$420,000
----	--	-----------

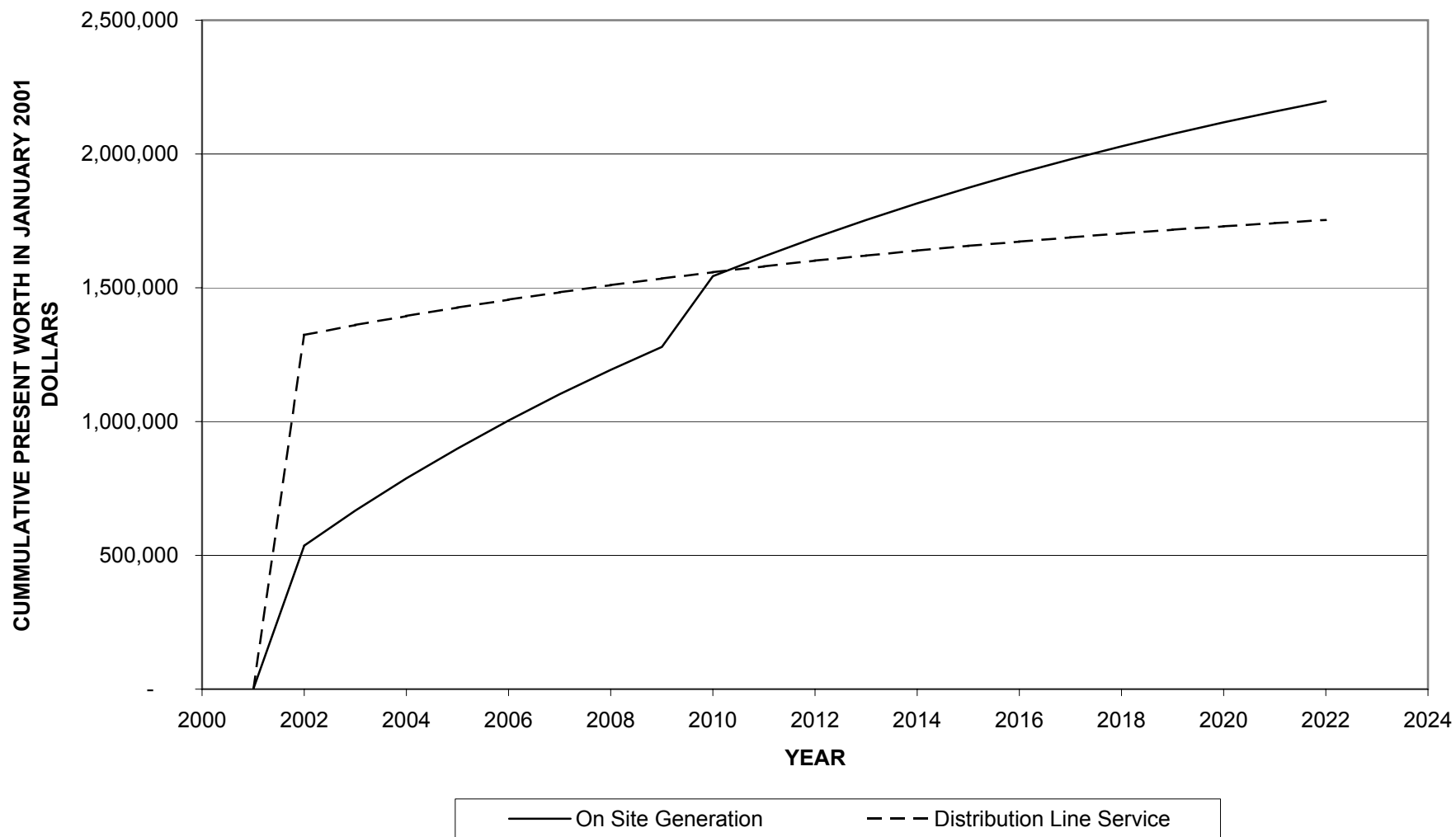
15

16	TOTAL	\$1,555,000
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17

18 (d) All portions of construction are forecasted to be contracted out.

**EBBE ENERGY REQUIREMENTS
ON SITE GENERATION VERSES DISTRIBUTION LINE SERVICE
CPW OF CAPITAL COST AND YEARLY EXPENSES FOR EACH OPTION**



1 Q. For the budget item identified below, provide the following information:

2

3	Budget Item	Amount	Description
4	B-9	\$697,000	Replace Halon 1301 Fire Protection
5			Systems for Generation System

6

7 Provide a copy of Hydro's Strategic Plan for Phase-Out and Replacement of
8 Halons.

9

10

11 A. Copy attached.

- 1 Q. Complete the following table for each of the following customers:
- 2 (a) Newfoundland Power;
- 3 (b) Rural-Island Interconnected;
- 4 (c) Rural-Labrador Interconnected (Excluding CFB Goose Bay);
- 5 (d) Rural-Isolated;
- 6 (e) Each of Hydro's industrial customers; and
- 7 (f) CFB Goose Bay.

		Customer												
Year	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Sales
1996	Sales (MWh)													
	CP (kW)													
	NCP (kW)													
1997	Sales (MWh)													
	CP (kW)													
	NCP (kW)													
1998	Sales (MWh)													
	CP (kW)													
	NCP (kW)													
1999	Sales (MWh)													
	CP (kW)													
	NCP (kW)													
2000	Sales (MWh)													
	CP (kW)													
	NCP (kW)													
2001 Forecast	Sales (MWh)													
	CP (kW)													
	NCP (kW)													
2002 Forecast	Sales (MWh)													
	CP (kW)													
	NCP (kW)													

- 1 A. Please note, there is no NCP or CP applicable to the isolated systems on the
2 Island and Labrador. Only an annual forecast of NCP is prepared for the
3 L'Anse au Loup system.

Newfoundland & Labrador Hydro

NF Power

Year	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Sales
1996	Sales (MWh)(Firm)	512,005	426,075	444,660	362,613	317,881	258,975	235,682	230,794	258,130	326,443	384,641	428,009	4,185,908
	CP (kW)	1,034,731	871,055	852,518	686,258	622,625	552,089	453,002	419,785	524,351	656,648	788,331	947,177	
	NCP (kW)	1,034,731	885,885	852,518	689,939	622,625	552,089	453,002	422,235	527,266	656,648	788,331	947,177	
1997	Sales (MWh)(Firm)	496,036	461,590	486,390	394,080	316,711	253,959	233,200	238,821	247,290	327,267	384,736	465,430	4,305,511
	CP (kW)	985,027	925,794	921,556	757,493	693,969	595,145	451,526	439,937	481,214	683,799	795,700	888,611	
	NCP (kW)	985,027	925,794	921,556	757,493	693,969	595,145	451,526	445,264	484,093	684,137	795,700	952,100	
1998	Sales (MWh)(Firm)	519,870	434,113	430,001	350,510	281,986	250,572	237,486	224,347	245,111	317,228	369,688	494,654	4,155,567
	CP (kW)	995,838	928,664	809,882	730,235	584,098	522,628	450,424	440,467	483,900	664,099	740,939	996,425	
	NCP (kW)	995,838	930,207	809,882	734,252	584,687	536,829	450,424	444,542	489,648	664,099	745,149	997,363	
1999	Sales (MWh)(Firm)	492,448	404,335	393,566	348,590	265,457	244,242	251,877	245,101	252,298	337,623	381,031	466,771	4,083,341
	CP (kW)	947,061	880,700	763,663	741,185	641,646	499,934	465,277	438,424	494,175	710,777	776,385	961,857	
	NCP (kW)	947,061	880,700	764,063	741,185	641,646	499,934	481,538	471,285	505,953	710,938	776,385	963,142	
2000	Sales (MWh)(Firm)	478,521	455,607	423,053	351,948	323,010	265,025	253,832	253,946	256,527	323,695	381,365	496,553	4,263,084
	CP (kW)	942,444	891,376	819,614	677,407	690,084	566,375	466,314	458,387	521,305	645,411	782,546	956,546	
	NCP (kW)	942,444	914,195	830,205	679,056	691,738	566,375	477,283	473,460	526,286	648,018	782,955	957,161	
2001 Forecast	Sales (MWh)(Firm)	528,500	466,900	471,900	379,200	325,800	270,200	249,400	243,800	262,200	325,600	389,500	486,400	4,399,400
	CP (kW)	1,014,449	961,697	873,440	760,836	663,449	560,990	481,186	471,719	509,253	669,536	788,800	1,014,449	
	NCP (kW)	1,014,449	961,697	873,440	760,836	663,449	560,990	481,186	471,719	509,253	669,536	788,800	1,014,449	
2002 Forecast	Sales (MWh)(Firm)	533,100	471,700	476,800	383,000	329,900	273,100	253,400	247,700	267,000	331,000	395,100	493,000	4,454,800
	CP (kW)	1,026,791	973,398	884,067	770,093	671,521	567,815	487,041	477,458	515,449	677,682	798,397	1,026,791	
	NCP (kW)	1,026,791	973,398	884,067	770,093	671,521	567,815	487,041	477,458	515,449	677,682	798,397	1,026,791	

Newfoundland & Labrador Hydro

North Atlantic Refining

Year	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Sales	
1996	Sales (MWh)(Firm)		21,066	18,626	20,624	19,768	19,277	19,604	8,960	19,043	18,767	20,205	20,954	21,882	228,775
	CP (kW)		29,292	26,389	26,813	28,002	26,974	27,115	8,407	21,813	26,450	30,684	30,200	29,756	
	NCP (kW)		30,784	29,151	29,051	28,990	28,869	29,071	27,700	29,131	29,212	30,724	30,663	30,966	
1997	Sales (MWh)(Firm)		21,119	19,671	21,904	19,884	22,055	20,521	21,151	20,535	14,088	21,724	20,894	21,263	244,808
	CP (kW)		29,514	28,748	29,534	29,454	29,978	29,373	27,458	26,672	18,487	29,837	28,748	29,313	
	NCP (kW)		30,381	30,704	30,381	30,563	30,502	29,958	29,716	30,079	30,240	30,845	30,764	30,663	
1998	Sales (MWh)(Firm)		22,407	18,870	18,600	4,107	8,665	19,242	20,222	20,968	20,339	13,476	6,394	20,457	193,747
	CP (kW)		30,220	27,397	28,909	6,068	13,205	26,349	29,212	28,264	28,305	5,463	14,172	29,796	
	NCP (kW)		31,329	29,756	30,764	12,036	25,885	30,240	29,837	29,595	29,252	29,514	16,007	30,059	
1999	Sales (MWh)(Firm)		21,723	18,614	21,178	20,653	18,504	16,984	19,532	19,517	19,646	15,854	11,317	21,306	224,826
	CP (kW)		29,534	28,002	29,071	28,567	27,639	18,971	28,083	22,499	27,397	5,342	22,922	28,748	
	NCP (kW)		30,180	30,240	30,260	30,200	29,655	28,809	28,607	27,639	28,526	28,385	29,373	29,595	
2000	Sales (MWh)(Firm)		20,697	19,234	21,386	20,038	9,181	20,438	21,326	20,890	20,825	7,179	18,709	19,758	219,661
	CP (kW)		21,732	29,272	28,849	28,204	4,596	28,627	28,264	28,829	29,131	9,324	29,904	24,242	
	NCP (kW)		29,877	29,958	30,159	29,676	28,627	29,958	29,877	29,514	29,837	29,098	30,257	29,988	
2001 Forecast	Sales (MWh)(Firm)		20,500	20,400	20,200	19,900	12,500	19,900	19,700	19,700	19,900	20,300	20,200	20,400	233,600
	CP (kW)		27,690	27,690	27,690	27,229	26,767	26,767	26,767	26,767	26,767	27,229	27,229	27,690	
	NCP (kW)		30,000	30,000	30,000	29,500	29,000	29,000	29,000	29,000	29,000	29,500	29,500	30,000	
2002 Forecast	Sales (MWh)(Firm)		20,500	20,400	20,200	19,900	12,500	19,900	19,700	19,700	19,900	20,300	20,200	20,400	233,600
	CP (kW)		27,690	27,690	27,690	27,229	26,767	26,767	26,767	26,767	26,767	27,229	27,229	27,690	
	NCP (kW)		30,000	30,000	30,000	29,500	29,000	29,000	29,000	29,000	29,000	29,500	29,500	30,000	

Newfoundland & Labrador Hydro

Rural Island Interconnected

Year	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Sales	
1996	Sales (MWh)		33,715	29,434	29,566	24,240	22,888	19,951	19,153	17,309	19,949	28,048	29,816	34,684	308,753
	CP (kW)		66,914	55,181	51,676	41,910	46,543	42,011	36,952	32,069	43,327	50,103	62,305	75,895	
	NCP (kW)		68,469	62,648	57,829	50,313	46,707	42,066	39,403	34,479	49,602	53,349	62,324	75,895	
1997	Sales (MWh)		37,791	35,305	36,073	30,382	28,408	24,801	23,591	23,671	24,059	28,199	30,549	36,411	359,241
	CP (kW)		80,773	62,784	64,818	59,383	50,800	54,396	49,729	46,423	49,545	56,307	61,712	75,827	
	NCP (kW)		81,244	74,773	71,820	62,654	57,719	54,396	49,846	48,466	50,370	57,847	64,652	76,859	
1998	Sales (MWh)		38,841	32,962	33,717	30,278	27,680	24,937	24,128	23,336	26,059	28,815	31,706	38,858	361,316
	CP (kW)		72,308	68,678	66,651	60,519	49,781	48,950	44,302	49,080	45,082	56,466	59,954	80,248	
	NCP (kW)		75,538	73,351	67,759	62,352	54,527	54,822	49,083	49,365	53,335	58,211	64,331	80,248	
1999	Sales (MWh)		39,874	35,133	33,786	30,683	28,073	23,562	26,464	25,602	24,892	30,835	33,365	38,252	370,520
	CP (kW)		77,041	57,730	65,027	63,419	55,833	52,301	48,249	50,679	44,674	62,655	66,624	81,713	
	NCP (kW)		77,041	65,517	67,083	63,419	56,360	52,301	50,448	51,476	52,669	63,756	68,418	84,758	
2000	Sales (MWh)		39,501	36,894	36,122	32,470	32,474	28,542	28,320	26,860	24,829	30,218	32,380	40,146	388,756
	CP (kW)		77,434	71,900	69,573	61,615	65,660	55,856	50,760	46,463	44,406	62,374	65,256	79,755	
	NCP (kW)		82,861	76,330	72,099	65,986	65,660	56,365	55,350	52,491	52,177	64,284	65,256	80,121	
2001 Forecast	Sales (MWh)		41,230	39,340	36,260	33,340	30,580	27,930	25,820	25,080	26,360	29,580	33,700	38,900	388,120
	CP (kW)		88,900	88,894	77,769	68,961	64,064	58,311	53,563	49,194	52,832	62,535	71,179	84,971	
	NCP (kW)		90,900	90,894	79,518	70,512	65,505	59,623	54,768	50,300	54,020	63,942	72,780	86,882	
2002 Forecast	Sales (MWh)		41,330	39,380	36,360	33,440	30,610	27,980	25,830	25,150	26,420	29,640	33,730	38,990	388,860
	CP (kW)		87,619	86,856	75,991	67,306	62,543	56,920	52,343	48,049	51,580	61,115	69,506	82,944	
	NCP (kW)		89,590	88,810	77,700	68,820	63,950	58,200	53,520	49,130	52,740	62,490	71,070	84,810	

Newfoundland & Labrador Hydro

Rural Labrador Interconnected (Wabush, Lab City, HV-GB)

Year	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Sales	
1996	Sales (MWh)		60,173	50,714	49,110	33,651	30,042	19,834	18,328	16,958	21,341	32,785	40,142	51,275	424,353
	CP (kW)		94,934	86,103	73,880	57,563	48,173	36,171	33,860	28,810	43,582	51,638	67,114	78,086	
	NCP (kW)		102,779	99,100	89,971	62,094	58,151	38,794	36,548	33,833	45,264	63,530	75,391	100,134	
1997	Sales (MWh)		58,884	54,963	53,058	39,095	32,499	23,385	19,400	19,090	22,218	32,813	43,378	54,939	453,722
	CP (kW)		96,618	87,548	82,754	64,962	51,846	45,398	27,033	32,586	49,686	53,550	79,698	80,294	
	NCP (kW)		103,454	99,994	93,350	75,138	58,122	50,928	35,682	38,384	49,686	62,539	85,277	99,592	
1998	Sales (MWh)		61,578	49,404	49,828	36,835	28,166	21,090	18,051	18,212	22,953	34,684	43,497	56,028	440,326
	CP (kW)		95,845	94,375	104,303	71,010	49,228	48,397	27,453	29,222	40,580	59,274	79,718	75,849	
	NCP (kW)		107,351	95,749	104,642	71,271	50,179	50,407	33,439	33,642	43,261	67,297	81,432	97,298	
1999	Sales (MWh)		62,081	50,268	45,643	37,082	26,412	20,271	17,538	17,727	20,819	36,132	44,358	55,571	433,902
	CP (kW)		97,812	89,922	84,184	59,401	60,206	47,170	30,764	29,240	39,103	63,514	77,666	93,722	
	NCP (kW)		106,821	97,850	91,612	69,766	60,206	47,210	34,736	35,672	43,606	63,971	81,178	102,793	
2000	Sales (MWh)		63,174	56,042	47,536	38,440	32,535	23,700	18,738	17,611	23,594	36,000	41,403	58,867	457,640
	CP (kW)		87,502	95,814	86,542	74,475	52,366	50,541	36,203	25,556	48,490	60,181	72,202	91,444	
	NCP (kW)		106,115	102,762	87,989	74,777	62,695	55,120	37,939	31,030	54,126	70,608	82,738	102,122	
2001 Forecast	Sales (MWh)		66,000	57,100	53,006	40,200	32,400	23,300	19,900	20,200	24,900	36,900	46,500	59,500	479,906
	CP (kW)		104,400	97,650	89,910	71,640	57,780	48,420	33,280	34,075	48,870	63,810	81,540	102,220	
	NCP (kW)		116,000	108,500	99,900	79,600	64,200	55,300	41,600	42,900	54,300	70,900	90,600	116,500	
2002 Forecast	Sales (MWh)		66,300	57,400	54,000	40,500	32,600	23,400	20,000	20,300	25,000	37,100	46,800	60,000	483,400
	CP (kW)		105,210	98,280	90,450	72,000	58,230	48,675	33,440	34,390	49,140	64,260	81,990	102,915	
	NCP (kW)		116,900	109,200	100,500	80,000	64,700	55,600	41,800	43,300	54,600	71,400	91,100	117,300	

Newfoundland & Labrador Hydro

CFB Goose Bay

Year	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Sales	
1996	Sales (MWh)		12,180	11,998	14,489	12,488	9,766	5,339	5,134	3,604	7,293	12,124	13,232	13,758	121,405
	CP (kW)		13,162	18,701	18,864	19,997	12,691	9,821	8,160	5,798	13,862	19,286	22,426	20,438	
	NCP (kW)		22,905	22,464	22,656	22,982	19,142	11,174	9,370	8,717	16,915	21,369	22,963	22,810	
1997	Sales (MWh)		12,114	10,483	11,090	10,456	11,011	6,197	4,414	4,421	6,088	10,534	12,748	11,838	111,394
	CP (kW)		12,010	17,280	17,338	20,266	16,982	14,102	6,499	7,882	15,994	18,614	19,382	18,490	
	NCP (kW)		22,406	21,216	22,080	22,714	20,198	17,146	8,294	9,254	16,070	19,085	22,886	21,446	
1998	Sales (MWh)		10,304	10,610	12,399	12,742	8,997	5,079	3,818	3,521	6,553	10,836	11,530	11,013	107,400
	CP (kW)		9,043	11,309	14,093	18,778	17,904	16,339	5,347	4,934	11,328	16,570	16,646	15,859	
	NCP (kW)		20,026	22,982	21,254	21,734	19,757	17,328	8,707	7,382	14,102	19,133	21,062	20,045	
1999	Sales (MWh)		8,435	9,495	11,050	9,596	7,169	1,241	-	1,997	3,609	7,609	11,490	9,636	81,328
	CP (kW)		12,480	11,290	16,128	19,363	12,490	13,114	-	-	9,485	19,018	19,258	12,854	
	NCP (kW)		17,318	18,758	19,776	19,382	18,173	13,114	-	7,939	9,677	19,018	21,389	21,226	
2000	Sales (MWh)		6,346	6,907	10,681	11,446	10,560	5,795	1,689	2,555	4,078	9,076	9,664	7,570	86,367
	CP (kW)		14,534	12,336	16,838	21,437	15,350	9,571	7,997	5,472	13,238	17,779	14,986	9,024	
	NCP (kW)		16,934	15,581	18,336	22,042	20,064	14,381	8,813	8,621	14,678	18,230	18,653	15,331	
2001 Forecast	Sales (MWh)		5,800	5,100	8,900	9,500	8,700	4,600	3,100	2,600	4,600	7,900	8,700	6,500	76,000
	CP (kW)		-	-	-	-	-	-	-	-	-	-	-	-	
	NCP (kW)		11,100	11,400	17,100	18,800	16,700	9,100	6,000	5,000	9,100	15,200	17,300	12,500	
2002 Forecast	Sales (MWh)		5,500	5,800	8,300	8,900	8,100	4,300	2,900	2,600	4,600	7,900	8,700	6,100	73,700
	CP (kW)		-	-	-	-	-	-	-	-	-	-	-	-	
	NCP (kW)		10,600	12,300	15,900	17,700	15,600	8,500	5,600	5,000	9,100	15,200	17,300	11,700	