

Lori Wanamaker

Board Chair

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Via email: EMLI.Minister@gov.bc.ca

January 15, 2024

Hon. Josie Osborne
Minister of Energy, Mines and
Low Carbon Innovation
PO Box 9060 Stn Prov Govt
Victoria BC V8W 9E3

Dear Minister Osborne:

**RE: British Columbia Hydro and Power Authority (BC Hydro)
Electricity Rate Comparison Annual Report No. 16**

BC Hydro writes to file its Electricity Rate Comparison Annual Report (**Report**) which provides a comparison of BC Hydro's monthly bills and average prices for residential, commercial, and industrial customers with other North American utilities as of April 1, 2023 (**Attachment A**). The Report is prepared in response to *Clean Energy Act* section 8(4), which states that:

"The authority must provide to the minister, in accordance with the regulations, an annual report comparing the electricity rates charged by the authority with electricity rates charged by public utilities in other jurisdictions in North America, including an assessment of the extent to which the authority's electricity rates continue to be competitive with those other rates."

This Report adheres to the Province of British Columbia's Rate Comparison Regulation (Ministerial Order No. M167) (**Attachment B**). The Rate Comparison Regulation requires that the Report provide a comparison of BC Hydro's monthly electricity bills with at least one public utility in each of at least 15 other North American jurisdictions, including all of the following: the provinces of Alberta, Quebec, Ontario, and Manitoba; and the states of Washington, Oregon, and California. The comparison is based on rates (in Canadian funds) in effect April 1, 2023, for residential, commercial, and industrial customers. In addition, it provides the current and previous five years of applicable rates for BC Hydro.

The Report consists of information taken from the Hydro-Quebec rate survey report titled "*Comparison of Electricity Prices in Major North American Cities*". The Hydro-Quebec report is prepared each year. Monthly bills and average prices are calculated and submitted to Hydro-Quebec by the participating utilities, including BC Hydro, using the rates that are in place as of April 1 of that current year. Accordingly,

some of the rates used may be interim rates that are approved and in effect at that time.¹

BC Hydro continues to be in the first (i.e., best) quartile for all three customer categories used to inform BC Hydro's Affordable Bills Service Plan performance measure. BC Hydro ranked second in the residential category (median consumption of 625 kWh), third in the commercial category (median consumption level of 750 kWh; equivalent to the Small Power category in the Hydro-Quebec rate survey report) and third in the industrial category (largest consumption level of 30,600,000 kWh).

For further information, please contact Shiau-Ching Chou at bchydroregulatorygroup@bchydro.com.

Yours sincerely,



Lori Wanamaker
Board Chair

tc/rh

Enclosure

Copy to: **British Columbia Utilities
Commission**
Attention: Patrick Wruck
Commission Secretary and Manager
Commission.secretary@bcuc.com

**Ministry of Energy, Mines and Low
Carbon Innovation**
Deputy Minister's Office
Attention: Shannon Baskerville
Deputy Minister
Shannon.Baskerville@gov.bc.ca

**Ministry of Energy, Mines and Low
Carbon Innovation**
Electricity & Alternative Energy Division
Attention: Les MacLaren
Assistant Deputy Minister
Les.MacLaren@gov.bc.ca

¹ The interim rate decrease of 1.0% is the product of an interim rate increase of 1.0% less the Deferral Account Rate Rider of (2.0)%.

**BC Hydro Electricity Rate Comparison
Annual Report**

Report No. 16

Attachment A

Rates as at April 1, 2023

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Monthly Bills and Average Prices as at April 1, 2023

This is the sixteenth Electricity Rate Comparison Annual Report (**Report**) prepared by BC Hydro in response to the *Clean Energy Act* section 8(4) and adheres to the Province of British Columbia's Rate Comparison Regulation, issued by Ministerial Order No. M167¹. The Report provides a comparison of BC Hydro's monthly bills and average prices for residential, commercial and industrial customers with other North American utilities, including those in Alberta, Quebec, Ontario, Manitoba, Washington, Oregon, and California in Canadian funds.²

Each year BC Hydro participates in the Hydro-Quebec rate comparison survey, submitting bill calculations based on electricity prices that are in place as of April 1 of the current year, and which may reflect approved interim rate increases.

Hydro-Quebec compiles the information and provides the monthly bills and average prices for 12 Canadian utilities and 10 American utilities in an annual report. The Report provides survey information taken from the Hydro-Quebec report titled *Comparison of Electricity Prices in Major North American Cities*.³

The Hydro-Quebec report provides the monthly bills, excluding taxes and non-utility levies, calculated for specific consumption points for four different customer segments: residential, small power, medium power and large power. The average price is also calculated for each customer segment and consumption point, by dividing the monthly bill against the amount of monthly energy consumption. For example, if an electric bill for 1,000 kWh was calculated to be a monthly amount of \$100, the average price would be \$100 divided by 1,000 kWh, or 10 cents/kWh.

¹ The first Electricity Rate Comparison Annual Report was issued on June 10, 2009 in response to Ministerial Order No. M114, which was subsequently replaced by Ministerial Order No. M167.

² Monthly bills and average prices for American utilities have been converted to Canadian dollars using the exchange rate of \$0.7442 (C\$1 = US\$0.7442), which is the rate in effect at 12 p.m. Eastern on April 3, 2023. The Canadian dollar had depreciated by 6.88% relative to the U.S. dollar on April 1, 2022.

³ [Hydro Quebec Comparison of Electricity Prices in Major North American Cities Report](#).

The monthly bills for customers are presented in [Table 1](#), [Table 2](#), [Table 3](#), and [Table 4](#). The average prices for customers are presented in [Table 5](#), [Table 6](#), [Table 7](#), and [Table 8](#). BC Hydro's monthly bills and average prices over the past five years are summarized in [Table 9](#) and [Table 10](#).

The Hydro-Quebec residential segment includes calculations for BC Hydro's residential customers. The Hydro-Quebec small power segment includes calculations for BC Hydro's general service customers who are under 100 kW, while the medium power segment includes calculations for BC Hydro's general service customers between 100 kW and 5,000 kW. Lastly, the Hydro-Quebec large power segment includes calculations for BC Hydro's general service and transmission service customers who are 5,000 kW and over. [Table 11](#) shows the specific BC Hydro rate schedules that have been included in each Hydro-Quebec segment. [Table 12](#) summarizes BC Hydro's relative rankings in each rate class in the current and the last five years of participation in the survey.

Based on the data from the Hydro-Quebec survey, BC Hydro's monthly bills and average prices for the residential, small, medium and large power categories are in the first (i.e., lowest rate) quartile of the public utilities surveyed. These low rates provide a competitive advantage to these customer segments in BC Hydro's service area. The rankings of BC Hydro in comparison to the top five participating utilities with the lowest monthly bills and average prices are noted in Tables 1 to 8. Of the 22 utilities that provided data, BC Hydro's monthly bills and average price rankings against the other utilities are as follows:

Rate Class & Usage	Ranking as of April 1, 2023
Residential	
Residential - 625 kWh	2
Residential - 750 kWh	3
Residential - 1,000 kWh	3
Residential - 2,000 kWh	5
Residential - 3,000 kWh	7
Small Power	
Small Power - 750 kWh/6 kW	3
Small Power - 2,000 kWh/14 kW	3
Small Power - 10,000 kWh/40 kW	3
Small Power - 14,000 kWh/100 kW	1
Small Power - 25,000 kWh/100 kW	2
Medium Power	
Medium Power - 100,000 kWh/500 kW	2
Medium Power - 200,000 kWh/500 kW	2
Medium Power - 200,000 kWh/1,000 kW	2
Medium Power - 400,000 kWh/1,000 kW	3
Medium Power - 1,170,000 kWh/2,500 kW	3
Large Power	
Large Power - 2,340 MWh/5,000 kW/25 kV	3
Large Power - 3,060 MWh/5,000 kW/25 kV	3
Large Power - 5,760 MWh/10,000 kW/120 kV	3
Large Power - 17,520 MWh/30,000 kW/120 kV	3
Large Power - 23,400 MWh/50,000 kW/120 kV	4
Large Power - 30,600 MWh/50,000 kW/120 kV	3

Table 1 Residential Monthly Bills

Hydro-Quebec Electricity Prices Comparison Report – Residential						
Monthly Bills as of April 1, 2023						
CDN \$/Month						
Utility	City	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
Hydro-Quebec	Montreal, QC	(1st) 54	(1st) 62	(1st) 78	(1st) 171	(1st) 272
Manitoba Hydro	Winnipeg, MB	(3rd) 67	(2nd) 79	(2nd) 102	(2nd) 196	(2nd) 289
BC Hydro	Vancouver, BC	(2nd) 66	(3rd) 81	(3rd) 116	(5th) 257	(7th) 398
Hydro Ottawa	Ottawa, ON	(5th) 95	(5th) 108	(4th) 135	(3rd) 240	(4th) 346
Newfoundland Power	St. John's, NL	(4th) 92	(4th) 107	(5th) 137	259	(5th) 380
Toronto Hydro	Toronto, ON	100	113	139	(4th) 242	(3rd) 345
NB Power	Moncton, NB	101	116	146	268	389
CenterPoint Energy	Houston, TX	112	130	154	302	450
PacifiCorp	Portland, OR	111	129	167	318	481
Florida Power and Light	Miami, FL	107	126	164	342	521
Nashville Electric Service	Nashville, TN	119	136	171	310	460
Seattle City Light	Seattle, WA	110	132	176	351	527
Maritime Electric	Charlottetown, PE	120	139	178	331	454
SaskPower	Regina, SK	123	142	179	328	477
Nova Scotia Power	Halifax, NS	121	142	183	346	510
Commonwealth Edison	Chicago, IL	150	176	229	438	647
DTE Electric	Detroit, MI	165	198	265	530	795
EPCOR	Edmonton, AB	183	215	278	529	781
ENMAX	Calgary, AB	197	231	298	567	836
Consolidated Edison	New York, NY	242	286	374	725	1,077
Pacific Gas and Electric	San Francisco, CA	281	352	482	1,053	1,624
Eversource Energy	Boston, MA	353	421	556	1,099	1,642

Note: Bill calculations exclude taxes and non-utility levies.

Table 2 Small Power Monthly Bills

Hydro-Quebec Electricity Prices Comparison Report – Small Power						
Monthly Bills as of April 1, 2023						
CDN \$/Month						
Utility	City	6 kW 750 kWh 17% load factor	14 kW 2,000 kWh 20% load factor	40 kW 10,000 kWh 35% load factor	100 kW 14,000 kWh 19% load factor	100 kW 25,000 kWh 35% load factor
Manitoba Hydro	Winnipeg, MB	(1st) 92	(1st) 210	(1st) 969	(2nd) 1,985	(1st) 2,632
Hydro-Quebec	Montreal, QC	(2nd) 96	(2nd) 233	(2nd) 1,110	(3rd) 2,030	(3rd) 3,006
BC Hydro	Vancouver, BC	(3rd) 105	(3rd) 262	(3rd) 1,192	(1st) 1,903	(2nd) 2,967
Newfoundland Power	St. John’s, NL	(5th) 112	(5th) 294	(4th) 1,272	(4th) 2,195	(4th) 3,164
Seattle City Light	Seattle, WA	120	305	1,491	(5th) 2,236	(5th) 3,464
Hydro Ottawa	Ottawa, ON	118	(4th) 281	(5th) 1,324	2,491	3,914
PacifiCorp	Portland, OR	144	343	1,452	2,440	3,582
Toronto Hydro	Toronto, ON	137	303	1,369	2,640	4,207
NB Power	Moncton, NB	135	318	1,511	2,632	3,770
CenterPoint Energy	Houston, TX	(4th) 112	402	1,563	2,761	3,885
Florida Power and Light	Miami, FL	136	335	1,566	2,843	3,853
SaskPower	Regina, SK	154	342	1,543	2,955	3,868
Nova Scotia Power	Halifax, NS	138	328	1,738	2,990	4,345
DTE Electric	Detroit, MI	159	411	1,926	2,683	4,765
Maritime Electric	Charlottetown, PE	165	399	1,849	3,151	4,516
Nashville Electric Service	Nashville, TN	197	424	1,701	3,991	4,870
Commonwealth Edison	Chicago, IL	222	514	2,079	3,430	5,150
EPCOR	Edmonton, AB	223	555	2,678	4,827	7,070
ENMAX	Calgary, AB	243	556	3,055	4,823	7,225
Consolidated Edison	New York, NY	318	1,014	3,561	6,705	8,785
Pacific Gas and Electric	San Francisco, CA	351	915	4,433	7,199	10,668
Eversource Energy	Boston, MA	334	1,039	5,567	10,098	14,601

Note: Bill calculations exclude taxes and non-utility levies.

Table 3 Medium Power Monthly Bills

Hydro-Quebec Electricity Prices Comparison Report – Medium Power						
Monthly Bills as of April 1, 2023						
CDN \$/Month						
Utility	City	500 kW 100,000 kWh 28% load factor	500 kW 200,000 kWh 56% load factor	1000 kW 200,000 kWh 28% load factor	1000 kW 400,000 kWh 56% load factor	2500 kW ¹ 1,170,000 kWh 65% load factor
Manitoba Hydro	Winnipeg, MB	(1st) 11,141	(1st) 15,633	(1st) 22,026	(1st) 31,010	(1st) 76,448
BC Hydro	Vancouver, BC	(2nd) 12,235	(2nd) 18,293	(2nd) 24,461	(3rd) 36,579	(3rd) 99,590
Hydro-Quebec	Montreal, QC	(4th) 13,498	(3rd) 19,204	(4th) 26,996	(2nd) 35,673	(2nd) 88,573
Newfoundland Power	St. John's, NL	(3rd) 12,905	(5th) 21,248	(3rd) 24,594	(4th) 41,122	(5th) 113,776
Commonwealth Edison	Chicago, IL	(5th) 14,260	(4th) 20,790	(5th) 28,342	(5th) 41,401	(4th) 110,815
PacifiCorp	Portland, OR	16,471	23,805	31,664	48,107	120,954
Seattle City Light	Seattle, WA	14,386	25,553	28,803	51,008	143,713
Hydro Ottawa	Ottawa, ON	16,286	26,215	32,371	52,229	152,766
NB Power	Moncton, NB	16,245	26,585	32,485	53,165	150,483
Florida Power and Light	Miami, FL	17,636	26,058	35,155	51,997	138,184
SaskPower	Regina, SK	18,549	25,771	37,326	51,770	129,918
CenterPoint Energy	Houston, TX	16,923	27,146	37,832	58,278	148,830
DTE Electric	Detroit, MI	18,962	28,273	37,892	56,287	138,753
Toronto Hydro	Toronto, ON	18,056	29,122	35,689	57,600	158,158
Nova Scotia Power	Halifax, NS	19,094	29,615	38,188	59,230	159,732
Nashville Electric Service	Nashville, TN	21,324	28,740	42,356	57,187	158,218
Maritime Electric	Charlottetown, PE	19,196	31,606	38,321	63,141	178,843
ENMAX	Calgary, AB	32,240	53,768	63,722	106,778	288,786
EPCOR	Edmonton, AB	32,891	55,856	63,722	109,651	310,078
Consolidated Edison	New York, NY	38,884	57,789	77,690	115,500	229,558
Eversource Energy	Boston, MA	40,547	62,564	80,879	124,913	327,681
Pacific Gas and Electric	San Francisco, CA	50,723	70,500	101,978	140,030	299,259

Note: Bill calculations exclude taxes and non-utility levies.

Table 4 Large Power Monthly Bills

Hydro-Quebec Electricity Prices Comparison Report – Large Power							
Monthly Bills as of April 1, 2023							
CDN \$000/Month							
Utility	City	5,000 kW 2,340,000 kWh 25 kV 65% load factor	5,000 kW 3,060,000 kWh 25 kV 85% load factor	10,000 kW 5,760,000 kWh 120 kV 80% load factor	30,000 kW 17,520,000 kWh 120 kV 81% load factor	50,000 kW 23,400,000 kWh 120 kV 65% load factor	50,000 kW 30,600,000 kWh 120 kV 85% load factor
Manitoba Hydro	Winnipeg, MB	(2nd) 150.0	(2nd) 180.4	(1st) 294.4	(1st) 892.2	(1st) 1,268.6	(1st) 1,539.8
Hydro-Quebec	Montreal, QC	(1st) 144.7	(1st) 169.9	(2nd) 309.0	(2nd) 935.6	(2nd) 1,356.1	(2nd) 1,608.3
BC Hydro	Vancouver, BC	(3rd) 199.2	(3rd) 242.1	(3rd) 384.9	(3rd) 1,166.9	(4th) 1,649.4	(3rd) 2,016.1
Commonwealth Edison	Chicago, IL	(4th) 220.6	(4th) 265.3	(4th) 389.0	(4th) 1,175.1	(3rd) 1,597.8	(4th) 2,044.7
Newfoundland Power	St. John's, NL	(5th) 224.6	284.1	532.3	1,358.9	(5th) 1,921.5	(5th) 2,347.7
SaskPower	Regina, SK	247.8	292.8	477.4	1,429.9	2,028.0	2,461.8
NB Power	Moncton, NB	227.3	(5th) 269.7	493.5	1,494.4	2,154.2	2,571.8
PacifiCorp	Portland, OR	236.7	290.6	530.8	1,603.4	2,252.0	2,771.2
Nashville Electric Service	Nashville, TN	312.2	366.6	(5th) 461.4	(5th) 1,352.2	2,030.7	2,510.3
Toronto Hydro	Toronto, ON	254.1	271.7	530.1	1,586.9	2,499.5	2,676.1
Florida Power and Light	Miami, FL	276.0	333.5	555.2	1,676.8	2,373.2	2,893.9
Hydro Ottawa	Ottawa, ON	262.0	318.0	592.7	1,766.4	2,482.7	3,042.7
Maritime Electric	Charlottetown, PE	255.0	311.2	594.3	1,801.6	2,550.2	3,111.8
DTE Electric	Detroit, MI	276.8	327.1	601.0	1,818.3	2,630.7	3,126.3
CenterPoint Energy	Houston, TX	294.4	367.6	634.1	1,923.8	2,620.1	3,346.7
Seattle City Light	Seattle, WA	287.1	366.7	640.8	1,941.0	2,645.8	3,372.9
Nova Scotia Power	Halifax, NS	299.5	371.2	706.6	2,143.6	2,994.8	3,712.2
Consolidated Edison	New York, NY	458.9	553.0	1,058.8	3,207.3	4,587.5	5,528.4
Pacific Gas and Electric	San Francisco, CA	589.7	709.5	1,351.1	4,077.2	5,825.5	7,022.8
Eversource Energy	Boston, MA	654.9	805.4	1,299.9	3,946.4	5,420.5	6,856.2
ENMAX	Calgary, AB	572.8	727.3	1,376.5	4,179.2	5,720.5	7,265.0
EPCOR	Edmonton, AB	617.1	784.0	1,349.7	4,083.5	5,586.7	7,086.8

Note: Bill calculations exclude taxes and non-utility levies.

Table 5 Residential Average Prices

Hydro-Quebec Electricity Prices Comparison Report – Residential						
Average Prices as of April 1, 2023						
CDN ¢/kWh						
Utility	City	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
Hydro-Quebec	Montreal, QC	(1st) 8.60	(1st) 8.25	(1st) 7.81	(1st) 8.57	(1st) 9.06
Manitoba Hydro	Winnipeg, MB	(3rd) 10.80	(2nd) 10.55	(2nd) 10.24	(2nd) 9.78	(2nd) 9.63
BC Hydro	Vancouver, BC	(2nd) 10.51	(3rd) 10.80	(3rd) 11.62	(5th) 12.85	(7th) 13.26
Hydro Ottawa	Ottawa, ON	(5th) 15.23	(5th) 14.45	(4th) 13.48	(3rd) 12.02	(4th) 11.53
Newfoundland Power	St. John's, NL	(4th) 14.67	(4th) 14.25	(5th) 13.73	12.94	(5th) 12.68
Toronto Hydro	Toronto, ON	16.03	15.07	13.88	(4th) 12.08	(3rd) 11.49
NB Power	Moncton, NB	16.08	15.43	14.61	13.38	12.97
CenterPoint Energy	Houston, TX	17.89	17.38	15.40	15.10	15.00
PacifiCorp	Portland, OR	17.69	17.25	16.70	15.88	16.05
Florida Power and Light	Miami, FL	17.18	16.84	16.42	17.12	17.35
Nashville Electric Service	Nashville, TN	19.00	18.15	17.10	15.52	15.35
Seattle City Light	Seattle, WA	17.58	17.58	17.57	17.57	17.57
Maritime Electric	Charlottetown, PE	19.25	18.60	17.78	16.55	15.13
SaskPower	Regina, SK	19.69	18.89	17.89	16.39	15.89
Nova Scotia Power	Halifax, NS	19.42	18.91	18.27	17.31	16.99
Commonwealth Edison	Chicago, IL	24.04	23.52	22.86	21.88	21.56
DTE Electric	Detroit, MI	26.42	26.43	26.46	26.49	26.50
EPCOR	Edmonton, AB	29.36	28.66	27.78	26.47	26.03
ENMAX	Calgary, AB	31.55	30.78	29.80	28.34	27.86
Consolidated Edison	New York, NY	38.74	38.14	37.39	36.27	35.90
Pacific Gas and Electric	San Francisco, CA	44.91	46.95	48.18	52.66	54.15
Eversource Energy	Boston, MA	56.43	56.08	55.63	54.96	54.73

Note: Bill calculations exclude taxes and non-utility levies.

Table 6 Small Power Average Prices

Hydro-Quebec Electricity Prices Comparison Report – Small Power									
Average Prices as of April 1, 2023									
CDN ¢/kWh									
Utility	City	6 kW 750 kWh 17% load factor	14 kW 2,000 kWh 20% load factor	40 kW 10,000 kWh 35% load factor	100 kW 14,000 kWh 19% load factor	100 kW 25,000 kWh 35% load factor			
Manitoba Hydro	Winnipeg, MB	(1st) 12.25	(1st) 10.52	(1st) 9.69	(2nd) 14.18	(1st) 10.53			
Hydro-Quebec	Montreal, QC	(2nd) 12.78	(2nd) 11.64	(2nd) 11.10	(3rd) 14.50	(3rd) 12.02			
BC Hydro	Vancouver, BC	(3rd) 14.00	(3rd) 13.08	(3rd) 11.92	(1st) 13.59	(2nd) 11.87			
Newfoundland Power	St. John’s, NL	(5th) 14.93	(5th) 14.70	(4th) 12.72	(4th) 15.68	(4th) 12.66			
Seattle City Light	Seattle, WA	16.00	15.26	14.91	(5th) 15.97	(5th) 13.86			
Hydro Ottawa	Ottawa, ON	15.69	(4th) 14.03	(5th) 13.24	17.80	15.66			
PacifiCorp	Portland, OR	19.14	17.17	14.52	17.43	14.33			
Toronto Hydro	Toronto, ON	18.21	15.16	13.69	18.86	16.83			
NB Power	Moncton, NB	18.06	15.92	15.11	18.80	15.08			
CenterPoint Energy	Houston, TX	(4th) 14.92	20.11	15.63	19.72	15.54			
Florida Power and Light	Miami, FL	18.16	16.74	15.66	20.30	15.41			
SaskPower	Regina, SK	20.51	17.08	15.43	21.11	15.47			
Nova Scotia Power	Halifax, NS	18.46	16.39	17.38	21.36	17.38			
DTE Electric	Detroit, MI	21.19	20.57	19.26	19.16	19.06			
Maritime Electric	Charlottetown, PE	21.99	19.94	18.49	22.51	18.07			
Nashville Electric Service	Nashville, TN	26.29	21.22	17.01	28.51	19.48			
Commonwealth Edison	Chicago, IL	29.60	25.71	20.79	24.50	20.60			
EPCOR	Edmonton, AB	29.72	27.73	26.78	34.48	28.28			
ENMAX	Calgary, AB	32.46	27.80	30.55	34.45	28.90			
Consolidated Edison	New York, NY	42.35	50.68	35.61	47.89	35.14			
Pacific Gas and Electric	San Francisco, CA	46.84	45.74	44.33	51.42	42.67			
Eversource Energy	Boston, MA	44.52	51.93	55.67	72.13	58.40			

Note: Bill calculations exclude taxes and non-utility levies.

Table 7 Medium Power Average Prices

Hydro-Quebec Electricity Prices Comparison Report – Medium Power						
Average Prices as of April 1, 2023						
CDN ¢/kWh						
Utility	City	500 kW 100,000 kWh 28% load factor	500 kW 200,000 kWh 56% load factor	1000 kW 200,000 kWh 28% load factor	1000 kW 400,000 kWh 56% load factor	2500 kW ¹ 1,170,000 kWh 65% load factor
Manitoba Hydro	Winnipeg, MB	(1st) 11.14	(1st) 7.82	(1st) 11.01	(1st) 7.75	(1st) 6.53
BC Hydro	Vancouver, BC	(2nd) 12.23	(2nd) 9.15	(2nd) 12.23	(3rd) 9.14	(3rd) 8.51
Hydro-Quebec	Montreal, QC	(4th) 13.50	(3rd) 9.60	(4th) 13.50	(2nd) 8.92	(2nd) 7.57
Newfoundland Power	St. John's, NL	(3rd) 12.91	(5th) 10.62	(3rd) 12.30	(4th) 10.28	(5th) 9.72
Commonwealth Edison	Chicago, IL	(5th) 14.26	(4th) 10.39	(5th) 14.17	(5th) 10.35	(4th) 9.47
PacifiCorp	Portland, OR	16.47	11.90	15.83	12.03	10.34
Seattle City Light	Seattle, WA	14.39	12.78	14.40	12.75	12.28
Hydro Ottawa	Ottawa, ON	16.29	13.11	16.19	13.06	13.06
NB Power	Moncton, NB	16.24	13.29	16.24	13.29	12.86
Florida Power and Light	Miami, FL	17.64	13.03	17.58	13.00	11.81
SaskPower	Regina, SK	18.55	12.89	18.66	12.94	11.10
CenterPoint Energy	Houston, TX	16.92	13.57	18.92	14.57	12.72
DTE Electric	Detroit, MI	18.96	14.14	18.95	14.07	11.86
Toronto Hydro	Toronto, ON	18.06	14.56	17.84	14.40	13.52
Nova Scotia Power	Halifax, NS	19.09	14.81	19.09	14.81	13.65
Nashville Electric Service	Nashville, TN	21.32	14.37	21.18	14.30	13.52
Maritime Electric	Charlottetown, PE	19.20	15.80	19.16	15.79	15.29
ENMAX	Calgary, AB	32.24	26.88	31.86	26.69	24.68
EPCOR	Edmonton, AB	32.89	27.93	31.86	27.41	26.50
Consolidated Edison	New York, NY	38.88	28.89	38.84	28.87	19.62
Eversource Energy	Boston, MA	40.55	31.28	40.44	31.23	28.01
Pacific Gas and Electric	San Francisco, CA	50.72	35.25	50.99	35.01	25.58

Note: Bill calculations exclude taxes and non-utility levies.

Table 8 Large Power Average Prices

Hydro-Quebec Electricity Prices Comparison Report – Large Power												
Average Prices as of April 1, 2023												
CDN ¢/kWh												
Utility	City	5,000 kW 2,340,000 kWh 25 kV 65% load factor	5,000 kW 3,060,000 kWh 25 kV 85% load factor	10,000 kW 5,760,000 kWh 120 kV 80% load factor	30,000 kW 17,520,000 kWh 120 kV 81% load factor	50,000 kW 23,400,000 kWh 120 kV 65% load factor	50,000 kW 30,600,000 kWh 120 kV 85% load factor					
Manitoba Hydro	Winnipeg, MB	(2nd) 6.41	(2nd) 5.90	(1st) 5.11	(1st) 5.09	(1st) 5.42	(1st) 5.03					
Hydro-Quebec	Montreal, QC	(1st) 6.18	(1st) 5.55	(2nd) 5.37	(2nd) 5.34	(2nd) 5.80	(2nd) 5.26					
BC Hydro	Vancouver, BC	(3rd) 8.51	(3rd) 7.91	(3rd) 6.68	(3rd) 6.66	(4th) 7.05	(3rd) 6.59					
Commonwealth Edison	Chicago, IL	(4th) 9.43	(4th) 8.67	(4th) 6.75	(4th) 6.71	(3rd) 6.83	(4th) 6.68					
Newfoundland Power	St. John's, NL	(5th) 9.60	9.28	9.24	7.76	(5th) 8.21	(5th) 7.67					
SaskPower	Regina, SK	10.59	9.57	8.29	8.16	8.67	8.05					
NB Power	Moncton, NB	9.72	(5th) 8.81	8.57	8.53	9.21	8.40					
PacifiCorp	Portland, OR	10.12	9.50	9.22	9.15	9.62	9.06					
Nashville Electric Service	Nashville, TN	13.34	11.98	(5th) 8.01	(5th) 7.72	8.68	8.20					
Toronto Hydro	Toronto, ON	10.86	8.88	9.20	9.06	10.68	8.75					
Florida Power and Light	Miami, FL	11.80	10.90	9.64	9.57	10.14	9.46					
Hydro Ottawa	Ottawa, ON	11.20	10.39	10.29	10.08	10.61	9.94					
Maritime Electric	Charlottetown, PE	10.90	10.17	10.32	10.28	10.90	10.17					
DTE Electric	Detroit, MI	11.83	10.69	10.43	10.38	11.24	10.22					
CenterPoint Energy	Houston, TX	12.58	12.01	11.01	10.98	11.20	10.94					
Seattle City Light	Seattle, WA	12.27	11.98	11.12	11.08	11.31	11.02					
Nova Scotia Power	Halifax, NS	12.80	12.13	12.27	12.24	12.80	12.13					
Consolidated Edison	New York, NY	19.61	18.07	18.38	18.31	19.60	18.07					
Pacific Gas and Electric	San Francisco, CA	25.20	23.19	23.46	23.27	24.90	22.95					
Eversource Energy	Boston, MA	27.99	26.32	22.57	22.53	23.16	22.41					
ENMAX	Calgary, AB	24.48	23.77	23.90	23.85	24.45	23.74					
EPCOR	Edmonton, AB	26.37	25.62	23.43	23.31	23.87	23.16					

Note: Bill calculations exclude taxes and non-utility levies.

Table 9 BC Hydro Monthly Bills Summary

BC Hydro Monthly Bills Summary for the Current and Past Five Years						
CDN\$/Month						
Vancouver, BC	April 1, 2018 ¹	April 1, 2019 ²	April 1, 2020 ³	April 1, 2021 ⁴	April 1, 2022 ⁵	April 1, 2023 ⁶
Residential						
625 kWh	64	65	65	65	64	66
750 kWh	79	81	80	81	79	81
1,000 kWh	114	116	115	116	114	116
2,000 kWh	253	258	255	257	252	257
3,000 kWh	393	400	396	398	390	398
Small Power						
750 kWh/6 kW	103	105	104	105	103	105
2,000 kWh/14 kW	257	262	259	260	256	262
10,000 kWh/40 kW	1,172	1,193	1,181	1,187	1,169	1,192
14,000 kWh/100 kW	1,872	1,905	1,886	1,895	1,866	1,903
25,000 kWh/100 kW	2,919	2,970	2,940	2,955	2,910	2,967
Medium Power						
100,000 kWh/500 kW	12,025	12,238	12,118	12,178	11,993	12,235
200,000 kWh/500 kW	17,979	18,298	18,118	18,208	17,932	18,293
200,000 kWh/1,000 kW	24,042	24,468	24,228	24,348	23,979	24,461
400,000 kWh/1,000 kW	35,949	36,588	36,228	36,408	35,856	36,579
1,170,000 kWh/2,500 kW	97,827	99,609	98,622	99,115	97,617	99,590
Large Power						
2,340 MWh/5,000 kW/25 kV	195,646	199,209	197,235	198,222	195,225	199,172
3,060 MWh/5,000 kW/25 kV	237,877	242,187	239,787	240,987	237,343	242,141
5,760 MWh/10,000 kW/120 kV	378,505	385,189	381,325	383,307	377,362	384,883
17,520 MWh/30,000 kW/120 kV	1,147,546	1,167,812	1,156,098	1,162,100	1,144,082	1,166,881
23,400 MWh/50,000 kW/120 kV	1,622,025	1,650,673	1,634,106	1,642,612	1,617,149	1,649,379
30,600 MWh/50,000 kW/120 kV	1,982,713	2,017,729	1,997,490	2,007,868	1,976,723	2,016,114

- 1) Rates used reflect a 3.00 per cent approved increase effective April 1, 2018.
- 2) Rates used reflect a 1.76 per cent approved net bill increase effective April 1, 2019.
- 3) Rates used reflect a 1.01 per cent interim net bill decrease effective April 1, 2020 (Compliance filing net bill decrease was 1.62 per cent).
- 4) Rates used reflect a 1.16 per cent interim net bill increase effective April 1, 2021 (Compliance filing net bill increase was 1.00 per cent).
- 5) Rates used reflect a 1.40 per cent interim net bill decrease effective April 1, 2022.
- 6) Rates used reflect a 1.03 per cent interim net bill decrease effective April 1, 2023.

Note: Bill calculations exclude taxes and non-utility levies and include the Deferral Account Rate Rider. For rates starting April 1, 2019 (fiscal 2020), April 1, 2020 (fiscal 2021) and April 1, 2021 (fiscal 2022), the Deferral Account Rate Rider was 0%. For April 1, 2022 (fiscal 2023) and April 1, 2023 (fiscal 2024), the Deferral Account Rate Rider was (2.0)%.

Table 10 BC Hydro Average Prices Summary

BC Hydro Average Prices Summary for the Current and Past Five Years						
CDNC/kWh						
Vancouver, BC	April 1, 2018 ¹	April 1, 2019 ²	April 1, 2020 ³	April 1, 2021 ⁴	April 1, 2022 ⁵	April 1, 2023 ⁶
Residential						
625 kWh	10.28	10.47	10.38	10.44	10.31	10.51
750 kWh	10.58	10.77	10.67	10.74	10.59	10.80
1,000 kWh	11.42	11.62	11.51	11.58	11.39	11.62
2,000 kWh	12.67	12.90	12.77	12.84	12.60	12.85
3,000 kWh	13.09	13.32	13.19	13.26	13.00	13.26
Small Power						
750 kWh/6 kW	13.77	14.01	13.86	13.94	13.73	14.00
2,000 kWh/14 kW	12.86	13.08	12.95	13.02	12.82	13.08
10,000 kWh/40 kW	11.72	11.93	11.81	11.87	11.69	11.92
14,000 kWh/100 kW	13.37	13.61	13.47	13.54	13.33	13.59
25,000 kWh/100 kW	11.67	11.88	11.76	11.82	11.64	11.87
Medium Power						
100,000 kWh/500 kW	12.03	12.24	12.12	12.18	11.99	12.23
200,000 kWh/500 kW	8.99	9.15	9.06	9.10	8.97	9.15
200,000 kWh/1,000 kW	12.02	12.23	12.11	12.17	11.99	12.23
400,000 kWh/1,000 kW	8.99	9.15	9.06	9.10	8.96	9.14
1,170,000 kWh/2,500 kW	8.36	8.51	8.43	8.47	8.34	8.51
Large Power						
2,340 MWh/5,000 kW/25 kV	8.36	8.51	8.43	8.47	8.34	8.51
3,060 MWh/5,000 kW/25 kV	7.77	7.91	7.84	7.88	7.76	7.91
5,760 MWh/10,000 kW/120 kV	6.57	6.69	6.62	6.65	6.55	6.68
17,520 MWh/30,000 kW/120 kV	6.55	6.67	6.60	6.63	6.53	6.66
23,400 MWh/50,000 kW/120 kV	6.93	7.05	6.98	7.02	6.91	7.05
30,600 MWh/50,000 kW/120 kV	6.48	6.59	6.53	6.56	6.46	6.59

- 1) Rates used reflect a 3.00 per cent approved increase effective April 1, 2018.
- 2) Rates used reflect a 1.76 per cent approved net bill increase effective April 1, 2019.
- 3) Rates used reflect a 1.01 per cent interim net bill decrease effective April 1, 2020 (Compliance filing net bill decrease was 1.62 per cent).
- 4) Rates used reflect a 1.16 per cent interim net bill increase effective April 1, 2021 (Compliance filing net bill increase was 1.00 per cent).
- 5) Rates used reflect a 1.40 per cent interim net bill decrease effective April 1, 2022.
- 6) Rates used reflect a 1.03 per cent interim net bill decrease effective April 1, 2023.

Note: Bill calculations exclude taxes and non-utility levies and include the Deferral Account Rate Rider. For rates starting April 1, 2019 (fiscal 2020), April 1, 2020 (fiscal 2021) and April 1, 2021 (fiscal 2022), the Deferral Account Rate Rider was 0%. For April 1, 2022 (fiscal 2023) and April 1, 2023 (fiscal 2024), the Deferral Account Rate Rider was (2.0)%.

Table 11 Corresponding BC Hydro Rate Schedules included in each Segment of the Hydro-Quebec Rate Survey

Hydro-Quebec Segment	Corresponding BC Hydro Rate Schedule
Residential	
625 kWh	RS 1101
750 kWh	RS 1101
1,000 kWh	RS 1101
2,000 kWh	RS 1101
3,000 kWh	RS 1101
Small Power	
750 kWh/6 kW	RS 1300
2,000 kWh/14 kW	RS 1300
10,000 kWh/40 kW	RS 1500
14,000 kWh/100 kW	RS 1500
25,000 kWh/100 kW	RS 1500
Medium Power	
100,000 kWh/500 kW	RS 1600
200,000 kWh/500 kW	RS 1600
200,000 kWh/1,000 kW	RS 1600
400,000 kWh/1,000 kW	RS 1600
1,170,000 kWh/2,500 kW	RS 1611
Large Power	
2,340,000 kWh/5,000 kW/25 kV	RS 1611
3,060,000 kWh/5,000 kW/25 kV	RS 1611
5,760,000 kWh/10,000 kW/120 kV	RS 1823
17,520,000 kWh/30,000 kW/120 kV	RS 1823
23,400,000 kWh/50,000 kW/120 kV	RS 1823
30,600,000 kWh/50,000 kW/120 kV	RS 1823

Table 12 BC Hydro Rankings Summary in Hydro-Quebec Rate Surveys, Out of 22 Utilities Surveyed

BC Hydro Rates Comparisons Ranking Summary for the Current and Past Five Years

Vancouver, BC	April 1, 2018	April 1, 2019	April 1, 2020	April 1, 2021	April 1, 2022	April 1, 2023
Residential						
625 kWh	3	3	3	3	2	2
750 kWh	3	3	3	3	3	3
1,000 kWh	3	3	5	3	3	3
2,000 kWh	7	7	6	7	5	5
3,000 kWh	8	8	8	8	7	7
Small Power						
750 kWh/6 kW	8	6	5	6	4	3
2,000 kWh/14 kW	6	5	5	5	3	3
10,000 kWh/40 kW	5	5	5	3	3	3
14,000 kWh/100 kW	5	3	3	2	1	1
25,000 kWh/100 kW	6	4	3	3	3	2
Medium Power						
100,000 kWh/500 kW	4	4	2	2	2	2
200,000 kWh/500 kW	3	4	3	3	2	2
200,000 kWh/1,000 kW	4	4	2	3	2	2
400,000 kWh/1,000 kW	4	4	3	3	3	3
1,170,000 kWh/2,500 kW	4	3	3	4	4	3
Large Power						
2,340 MWh/5,000 kW/25 kV	4	3	3	4	4	3
3,060 MWh/5,000 kW/25 kV	3	3	3	4	4	3
5,760 MWh/10,000 kW/120 kV	4	3	5	4	3	3
17,520 MWh/30,000 kW/120 kV	5	4	5	5	3	3
23,400 MWh/50,000 kW/120 kV	5	4	5	5	3	4
30,600 MWh/50,000 kW/120 kV	5	4	5	5	3	3

**BC Hydro Electricity Rate Comparison
Annual Report**

Report No. 16

Attachment B

Ministerial Order No. M 167

PROVINCE OF BRITISH COLUMBIA
REGULATION OF THE MINISTER OF ENERGY AND MINES
AND MINISTER RESPONSIBLE FOR HOUSING

Clean Energy Act

Ministerial Order No. M 167

I, Rich Coleman, Minister of Energy and Mines and Minister Responsible for Housing, order that the Rate Comparison Regulation, B.C. Reg. 140/2009, is repealed, and the following Rate Comparison Regulation is made.

RATE COMPARISON REGULATION

Definition

1 In this regulation:

"Act" means the *Clean Energy Act*;

"applicable rates" means, with respect to a public utility's electricity rates, the average monthly bill for electricity, but not any other terms and conditions of those rates.

Report requirements

2 In a report to be provided to the minister under section 8 (4) of the Act, the authority must do all of the following:

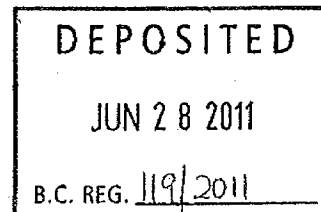
(a) include a comparison with at least one public utility in each of at least fifteen other jurisdictions in North America, including all of the following:

- (i) the provinces of Alberta, Quebec, Ontario and Manitoba;
- (ii) the states of Washington, Oregon and California;

(b) compare the previous year's applicable rates for residential, commercial and industrial customers with similar rates of the public utilities referred to in paragraph (a);

(c) express the monetary comparisons in Canadian currency;

(d) provide the authority's previous 5 years of applicable rates.



JUN 28 2011

Date

A handwritten signature in black ink, appearing to be "Rich Coleman".

Minister of Energy and Mines and Minister
Responsible for Housing

(This part is for administrative purposes only and is not part of the Order.)

Authority under which Order is made:

Act and section: *Clean Energy Act*, S.B.C. 2010, c. 22, s. 37 (f)

Other: *Utilities Commission Act*, R.S.B.C. 1996, c. 473, s. 125.1 (4) (c); M114/2009

June 9, 2011

Resub R/77/2011/27