

Doug Allen
Board Chair
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Via email: EMLI.Minister@gov.bc.ca

December 23, 2022

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. 15**

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, 2022 (**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, 2022, 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), fourth 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 Chris Sandve at 604-974-4641 or by email at bchydroregulatorygroup@bchydro.com.

Yours sincerely,



Doug Allen
Board Chair

ds/rh

Enclosure

Copy to: **British Columbia Utilities
Commission**
Attention: Sara Hardgrave
Acting 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
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**Ministry of Energy, Mines and Low
Carbon Innovation**
Electricity & Alternative Energy Division
Attention: Les MacLaren
Assistant Deputy Minister
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¹ The interim rate decrease of 1.4% is the product of an interim rate increase of 0.6% less the Deferral Account Rate Rider of (2.0) percent.

**BC Hydro Electricity Rate Comparison
Annual Report**

Report No. 15

Attachment A

Rates as at April 1, 2022

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Monthly Bills and Average Prices as at April 1, 2022

This is the fifteenth 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 entitled *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 specific consumption point, by dividing the monthly bill by 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 as at 12 p.m. Eastern on April 1, 2022 of \$0.7992 (C\$1 = US\$0.7992). The Canadian dollar had appreciated by 0.41 per cent relative to the U.S. dollar since April 1, 2021.

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 under 100 kW customers, while the medium power segment includes calculations for BC Hydro's general service 100 kW to 5,000 kW customers. 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 providing data, BC Hydro's monthly bills and average price rankings against the other utilities are as follows:

Rate Class & Usage	Ranking at April 1, 2022
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	4
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	3
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	4
Large Power	
Large Power - 2,340 MWh/5,000 kW/25 kV	4
Large Power - 3,060 MWh/5,000 kW/25 kV	4
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	3
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, 2022 CDN \$/Month						
Utility	City	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
Hydro-Quebec	Montreal, QC	(1st) 52	(1st) 60	(1st) 76	(1st) 166	(1st) 264
Manitoba Hydro	Winnipeg, MB	(3rd) 67	(2nd) 79	(2nd) 102	(2nd) 196	(2nd) 289
BC Hydro	Vancouver, BC	(2nd) 64	(3rd) 79	(3rd) 114	(5th) 252	(7th) 390
Hydro Ottawa	Ottawa, ON	(5th) 91	(5th) 104	(5th) 129	(3rd) 233	(3rd) 336
Pacific Power and Light	Portland, OR	(4th) 84	(4th) 98	(4th) 126	266	405
Newfoundland Power	St. John's, NL	92	107	138	260	381
Toronto Hydro	Toronto, ON	99	112	139	(4th) 245	(4th) 350
NB Power	Moncton, NB	96	110	139	255	(5th) 372
Florida Power and Light	Miami, FL	96	113	147	308	469
CenterPoint Energy	Houston, TX	106	124	147	289	430
Nashville Electric Service	Nashville, TN	108	124	156	285	419
Seattle City Light	Seattle, WA	97	118	159	322	486
SaskPower	Regina, SK	112	130	165	307	450
Nova Scotia Power	Halifax, NS	112	132	173	335	497
Maritime Electric	Charlottetown, PE	120	139	178	331	454
Commonwealth Edison	Chicago, IL	122	142	183	347	510
EPCOR Energy	Edmonton, AB	132	153	195	361	528
Enmax	Calgary, AB	135	157	199	371	542
DTE Electric	Detroit, MI	143	172	230	462	695
Consolidated Edison	New York, NY	233	275	360	700	1,039
NSTAR Electric & Gas	Boston, MA	239	285	377	746	1,114
Pacific Gas and Electric	San Francisco, CA	236	298	413	976	1,593

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, 2022						
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	(2nd) 92	(1st) 210	(1st) 969	(4th) 1,985	(1st) 2,632
Hydro-Quebec	Montreal, QC	(1st) 90	(2nd) 219	(2nd) 1,042	(2nd) 1,906	(2nd) 2,822
BC Hydro	Vancouver, BC	(4th) 103	(3rd) 256	(3rd) 1,169	(1st) 1,866	(3rd) 2,910
Seattle City Light	Seattle, WA	(3rd) 101	(5th) 269	1,345	(3rd) 1,949	(5th) 3,071
Pacific Power and Light	Portland, OR	116	274	(4th) 1,216	2,099	(4th) 2,993
Hydro Ottawa	Ottawa, ON	(5th) 112	(4th) 268	(5th) 1,269	(5th) 2,084	3,501
Newfoundland Power	St. John's, NL	112	295	1,276	2,200	3,173
Toronto Hydro	Toronto, ON	133	299	1,365	2,261	3,766
Florida Power and Light	Miami, FL	122	301	1,438	2,655	3,541
NB Power	Moncton, NB	129	304	1,441	2,507	3,596
SaskPower	Regina, SK	134	305	1,398	2,688	3,650
DTE Electric	Detroit, MI	136	352	1,640	2,284	4,054
Nova Scotia Power	Halifax, NS	126	310	1,636	2,845	4,091
CenterPoint Energy	Houston, TX	125	422	1,700	2,904	4,231
Commonwealth Edison	Chicago, IL	185	418	1,612	2,761	3,983
Enmax	Calgary, AB	178	386	1,825	3,042	4,187
Maritime Electric	Charlottetown, PE	165	399	1,849	3,151	4,516
Nashville Electric Service	Nashville, TN	181	393	1,585	3,646	4,474
EPCOR Energy	Edmonton, AB	161	400	1,928	3,804	5,324
Consolidated Edison	New York, NY	298	929	3,270	6,136	8,067
NSTAR Electric & Gas	Boston, MA	266	681	3,630	7,030	9,610
Pacific Gas and Electric	San Francisco, CA	301	781	3,765	6,116	9,080

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, 2022 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
Hydro-Quebec	Montreal, QC	(3rd) 12,674	(3rd) 18,031	(5th) 25,348	(2nd) 33,495	(2nd) 83,102
BC Hydro	Vancouver, BC	(2nd) 11,993	(2nd) 17,932	(2nd) 23,979	(3rd) 35,856	(4th) 97,617
Pacific Power and Light	Portland, OR	13,536	(4th) 19,596	26,998	(4th) 38,880	(3rd) 93,683
Newfoundland Power	St. John's, NL	(5th) 12,941	(5th) 21,321	(3rd) 24,655	(5th) 41,256	114,174
Seattle City Light	Seattle, WA	(4th) 12,807	23,004	(4th) 25,171	45,336	128,659
Hydro Ottawa	Ottawa, ON	14,454	23,450	28,708	46,699	134,155
DTE Electric	Detroit, MI	16,124	23,568	32,218	46,896	(5th) 113,304
Toronto Hydro	Toronto, ON	16,262	25,738	32,140	50,904	139,023
SaskPower	Regina, SK	16,348	24,022	32,680	48,028	117,239
Florida Power and Light	Miami, FL	16,466	23,862	32,827	47,619	126,202
NB Power	Moncton, NB	15,489	25,389	30,974	50,774	143,759
Commonwealth Edison	Chicago, IL	17,763	25,656	35,346	51,131	137,933
Nova Scotia Power	Halifax, NS	18,069	27,610	36,137	55,219	147,638
Nashville Electric Service	Nashville, TN	19,703	26,696	39,176	53,163	146,755
Enmax	Calgary, AB	20,135	30,279	39,574	59,862	163,539
CenterPoint Energy	Houston, TX	17,978	30,043	40,062	64,191	172,427
Maritime Electric	Charlottetown, PE	19,196	31,606	38,321	63,141	178,843
EPCOR Energy	Edmonton, AB	23,136	36,022	43,592	69,364	191,298
Consolidated Edison	New York, NY	35,654	53,205	71,236	106,337	227,657
NSTAR Electric & Gas	Boston, MA	35,177	52,872	70,154	105,545	277,421
Pacific Gas and Electric	San Francisco, CA	42,741	59,877	84,539	117,151	239,254

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, 2022 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
Hydro-Quebec	Montreal, QC	(1st) 138.9	(1st) 163.1	(2nd) 296.6	(2nd) 897.9	(2nd) 1,301.5	(2nd) 1,543.6
Manitoba Hydro	Winnipeg, MB	(2nd) 150.0	(2nd) 180.4	(1st) 294.4	(1st) 892.2	(1st) 1,268.6	(1st) 1,539.8
BC Hydro	Vancouver, BC	(4th) 195.2	(4th) 237.3	(3rd) 377.4	(3rd) 1,144.1	(3rd) 1,617.1	(3rd) 1,976.7
Pacific Power and Light	Portland, OR	(3rd) 184.4	(3rd) 220.9	(4th) 397.2	(5th) 1,197.0	(5th) 1,719.3	(5th) 2,059.1
Newfoundland Power	St. John's, NL	225.4	285.1	534.3	(4th) 1,167.4	(4th) 1,665.8	(4th) 2,013.3
SaskPower	Regina, SK	225.1	274.8	(5th) 446.7	1,339.5	1,873.1	2,313.0
NB Power	Moncton, NB	(5th) 217.6	(5th) 258.4	472.9	1,432.1	2,062.6	2,465.0
DTE Electric	Detroit, MI	226.0	263.4	486.0	1,468.9	2,151.7	2,519.2
Nashville Electric Service	Nashville, TN	290.2	341.4	449.9	1,327.3	1,976.8	2,483.8
Florida Power and Light	Miami, FL	252.1	302.6	501.3	1,513.6	2,154.6	2,609.2
Commonwealth Edison	Chicago, IL	274.9	329.9	521.8	1,576.2	2,183.6	2,733.2
Hydro Ottawa	Ottawa, ON	244.5	299.3	556.0	1,655.8	2,307.9	2,856.2
Seattle City Light	Seattle, WA	257.5	329.7	582.7	1,769.6	2,406.8	3,078.0
Toronto Hydro	Toronto, ON	275.2	298.5	581.1	1,742.3	2,713.0	2,946.3
Maritime Electric	Charlottetown, PE	255.0	311.2	594.3	1,801.6	2,550.2	3,111.8
Nova Scotia Power	Halifax, NS	281.5	348.7	663.8	2,013.9	2,815.2	3,487.2
EPCOR Energy	Edmonton, AB	348.2	430.9	720.5	2,170.3	3,027.6	3,746.7
Enmax	Calgary, AB	322.8	402.7	764.7	2,319.2	3,221.2	4,020.1
CenterPoint Energy	Houston, TX	341.5	429.4	754.3	2,289.1	3,119.9	3,981.9
Consolidated Edison	New York, NY	455.1	552.3	1,055.8	3,199.4	4,549.7	5,521.0
Pacific Gas and Electric	San Francisco, CA	476.4	576.6	1,101.8	3,335.9	4,751.7	5,753.8
NSTAR Electric & Gas	Boston, MA	554.5	675.7	1,082.0	3,283.4	4,554.4	5,693.7

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, 2022 CDN ¢/kWh						
Utility	City	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
Hydro-Quebec	Montreal, QC	(1st) 8.35	(1st) 8.01	(1st) 7.59	(1st) 8.32	(1st) 8.80
Manitoba Hydro	Winnipeg, MB	(3rd) 10.80	(2nd) 10.55	(2nd) 10.24	(2nd) 9.78	(2nd) 9.63
BC Hydro	Vancouver, BC	(2nd) 10.31	(3rd) 10.59	(3rd) 11.39	(5th) 12.60	(7th) 13.00
Hydro Ottawa	Ottawa, ON	(5th) 14.50	(5th) 13.81	(5th) 12.94	(3rd) 11.64	(3rd) 11.21
Pacific Power and Light	Portland, OR	(4th) 13.42	(4th) 13.06	(4th) 12.61	13.27	13.50
Newfoundland Power	St. John's, NL	14.70	14.28	13.76	12.98	12.72
Toronto Hydro	Toronto, ON	15.87	14.99	13.88	(4th) 12.23	(4th) 11.68
NB Power	Moncton, NB	15.33	14.71	13.94	12.77	(5th) 12.39
Florida Power and Light	Miami, FL	15.39	15.09	14.71	15.40	15.63
CenterPoint Energy	Houston, TX	17.02	16.54	14.70	14.43	14.34
Nashville Electric Service	Nashville, TN	17.21	16.49	15.59	14.24	13.96
Seattle City Light	Seattle, WA	15.58	15.71	15.87	16.11	16.19
SaskPower	Regina, SK	17.87	17.27	16.51	15.37	14.99
Nova Scotia Power	Halifax, NS	17.95	17.66	17.30	16.76	16.58
Maritime Electric	Charlottetown, PE	19.25	18.60	17.78	16.55	15.13
Commonwealth Edison	Chicago, IL	19.46	18.94	18.30	17.33	17.01
EPCOR Energy	Edmonton, AB	21.26	20.42	19.48	18.07	17.61
Enmax	Calgary, AB	21.63	20.88	19.94	18.53	18.06
DTE Electric	Detroit, MI	22.88	22.93	23.01	23.12	23.15
Consolidated Edison	New York, NY	37.28	36.72	36.03	34.98	34.64
NSTAR Electric & Gas	Boston, MA	38.25	38.02	37.73	37.29	37.14
Pacific Gas and Electric	San Francisco, CA	37.74	39.68	41.29	48.82	53.11

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, 2022										
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	(2nd) 12.25	(1st) 10.52	(1st) 9.69	(4th) 14.18	(1st) 10.53				
Hydro-Quebec	Montreal, QC	(1st) 12.00	(2nd) 10.93	(2nd) 10.42	(2nd) 13.62	(2nd) 11.29				
BC Hydro	Vancouver, BC	(4th) 13.73	(3rd) 12.82	(3rd) 11.69	(1st) 13.33	(3rd) 11.64				
Seattle City Light	Seattle, WA	(3rd) 13.45	(5th) 13.45	13.45	(3rd) 13.92	(5th) 12.28				
Pacific Power and Light	Portland, OR	15.52	13.68	(4th) 12.16	14.99	(4th) 11.97				
Hydro Ottawa	Ottawa, ON	(5th) 14.90	(4th) 13.40	(5th) 12.69	(5th) 14.89	14.00				
Newfoundland Power	St. John's, NL	14.97	14.73	12.76	15.71	12.69				
Toronto Hydro	Toronto, ON	17.72	14.97	13.65	16.15	15.06				
Florida Power and Light	Miami, FL	16.31	15.07	14.38	18.97	14.16				
NB Power	Moncton, NB	17.21	15.18	14.41	17.91	14.39				
SaskPower	Regina, SK	17.82	15.23	13.98	19.20	14.60				
DTE Electric	Detroit, MI	18.19	17.62	16.40	16.31	16.22				
Nova Scotia Power	Halifax, NS	16.84	15.48	16.36	20.32	16.36				
CenterPoint Energy	Houston, TX	16.63	21.11	17.00	20.74	16.92				
Commonwealth Edison	Chicago, IL	24.70	20.90	16.12	19.72	15.93				
Enmax	Calgary, AB	23.67	19.28	18.25	21.73	16.75				
Maritime Electric	Charlottetown, PE	21.99	19.94	18.49	22.51	18.07				
Nashville Electric Service	Nashville, TN	24.17	19.63	15.85	26.04	17.90				
EPCOR Energy	Edmonton, AB	21.47	19.99	19.28	27.17	21.29				
Consolidated Edison	New York, NY	39.79	46.44	32.70	43.83	32.27				
NSTAR Electric & Gas	Boston, MA	35.43	34.07	36.30	50.22	38.44				
Pacific Gas and Electric	San Francisco, CA	40.08	39.05	37.65	43.69	36.32				

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, 2022 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 1,170,000 kWh 65% load factor
Manitoba Hydro	Winnipeg, MB	(1st) 11.14	(1st) 7.82	(1st) 11.01	(1st) 7.75	(1st) 6.53
Hydro-Quebec	Montreal, QC	(3rd) 12.67	(3rd) 9.02	(5th) 12.67	(2nd) 8.37	(2nd) 7.10
BC Hydro	Vancouver, BC	(2nd) 11.99	(2nd) 8.97	(2nd) 11.99	(3rd) 8.96	(4th) 8.34
Pacific Power and Light	Portland, OR	13.54	(4th) 9.80	13.50	(4th) 9.72	(3rd) 8.01
Newfoundland Power	St. John's, NL	(5th) 12.94	(5th) 10.66	(3rd) 12.33	(5th) 10.31	9.76
Seattle City Light	Seattle, WA	(4th) 12.81	11.50	(4th) 12.59	11.33	11.00
Hydro Ottawa	Ottawa, ON	14.45	11.72	14.35	11.67	11.47
DTE Electric	Detroit, MI	16.12	11.78	16.11	11.72	(5th) 9.68
SaskPower	Regina, SK	16.35	12.01	16.34	12.01	10.02
Florida Power and Light	Miami, FL	16.47	11.93	16.41	11.90	10.79
NB Power	Moncton, NB	15.49	12.69	15.49	12.69	12.29
Toronto Hydro	Toronto, ON	16.26	12.87	16.07	12.73	11.88
Commonwealth Edison	Chicago, IL	17.76	12.83	17.67	12.78	11.79
Nova Scotia Power	Halifax, NS	18.07	13.80	18.07	13.80	12.62
Nashville Electric Service	Nashville, TN	19.70	13.35	19.59	13.29	12.54
Enmax	Calgary, AB	20.13	15.14	19.79	14.97	13.98
CenterPoint Energy	Houston, TX	17.98	15.02	20.03	16.05	14.74
Maritime Electric	Charlottetown, PE	19.20	15.80	19.16	15.79	15.29
EPCOR Energy	Edmonton, AB	23.14	18.01	21.80	17.34	16.35
Consolidated Edison	New York, NY	35.65	26.60	35.62	26.58	19.46
NSTAR Electric & Gas	Boston, MA	35.18	26.44	35.08	26.39	23.71
Pacific Gas and Electric	San Francisco, CA	42.74	29.94	42.27	29.29	20.45

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, 2022													
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		50,000 kW 23,400,000 kWh 120 kV			
Hydro-Quebec	Montreal, QC	(1st)	5.93	(1st)	5.33	(2nd)	5.15	(2nd)	5.12	(2nd)	5.56	(2nd)	5.04
Manitoba Hydro	Winnipeg, MB	(2nd)	6.41	(2nd)	5.90	(1st)	5.11	(1st)	5.09	(1st)	5.42	(1st)	5.03
BC Hydro	Vancouver, BC	(4th)	8.34	(4th)	7.76	(3rd)	6.55	(3rd)	6.53	(3rd)	6.91	(3rd)	6.46
Pacific Power and Light	Portland, OR	(3rd)	7.88	(3rd)	7.22	(4th)	6.90	(5th)	6.83	(5th)	7.35	(5th)	6.73
Florida Power and Light	Miami, FL	(5th)	8.95	(5th)	8.06	(5th)	7.03		6.97		7.56		6.85
Newfoundland Power	St. John's, NL		9.63		9.32		9.28	(4th)	6.66	(4th)	7.12	(4th)	6.58
SaskPower	Regina, SK		9.62		8.98		7.76		7.65		8.00		7.56
NB Power	Moncton, NB		9.30		8.44		8.21		8.17		8.81		8.06
DTE Electric	Detroit, MI		9.66		8.61		8.44		8.38		9.20		8.23
Nashville Electric Service	Nashville, TN		12.40		11.16		7.81		7.58		8.45		8.12
Commonwealth Edison	Chicago, IL		11.75		10.78		9.06		9.00		9.33		8.93
Hydro Ottawa	Ottawa, ON		10.45		9.78		9.65		9.45		9.86		9.33
Seattle City Light	Seattle, WA		11.00		10.77		10.12		10.10		10.29		10.06
Toronto Hydro	Toronto, ON		11.76		9.76		10.09		9.94		11.59		9.63
Maritime Electric	Charlottetown, PE		10.90		10.17		10.32		10.28		10.90		10.17
Nova Scotia Power	Halifax, NS		12.03		11.40		11.53		11.50		12.03		11.40
EPCOR Energy	Edmonton, AB		14.88		14.08		12.51		12.39		12.94		12.24
Enmax	Calgary, AB		13.80		13.16		13.28		13.24		13.77		13.14
CenterPoint Energy	Houston, TX		14.59		14.03		13.10		13.07		13.33		13.01
Consolidated Edison	New York, NY		19.45		18.05		18.33		18.26		19.44		18.04
Pacific Power and Light	San Francisco, CA		20.36		18.84		19.13		19.04		20.31		18.80
NSTAR Electric & Gas	Boston, MA		23.70		22.08		18.79		18.74		19.46		18.61

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, 2017 ¹	April 1, 2018 ²	April 1, 2019 ³	April 1, 2020 ⁴	April 1, 2021 ⁵	April 1, 2022 ⁶
Residential						
625 kWh	62	64	65	65	65	64
750 kWh	77	79	81	80	81	79
1,000 kWh	111	114	116	115	116	114
2,000 kWh	246	253	258	255	257	252
3,000 kWh	381	393	400	396	398	390
Small Power						
750 kWh/6 kW	100	103	105	104	105	103
2,000 kWh/14 kW	250	257	262	259	260	256
10,000 kWh/40 kW	1,138	1,172	1,193	1,181	1,187	1,169
14,000 kWh/100 kW	1,818	1,872	1,905	1,886	1,895	1,866
25,000 kWh/100 kW	2,834	2,919	2,970	2,940	2,955	2,910
Medium Power						
100,000 kWh/500 kW	11,660	12,025	12,238	12,118	12,178	11,993
200,000 kWh/500 kW	17,443	17,979	18,298	18,118	18,208	17,932
200,000 kWh/1,000 kW	23,328	24,042	24,468	24,228	24,348	23,979
400,000 kWh/1,000 kW	34,878	35,949	36,588	36,228	36,408	35,856
1,170,000 kWh/2,500 kW	94,890	97,827	99,609	98,622	99,115	97,617
Large Power						
2,340 MWh/5,000 kW/25 kV	231,493	195,646	199,209	197,235	198,222	195,225
3,060 MWh/5,000 kW/25 kV	276,242	237,877	242,187	239,787	240,987	237,343
5,760 MWh/10,000 kW/120 kV	463,887	378,505	385,189	381,325	383,307	377,362
17,520 MWh//30,000 kW/120 kV	1,399,442	1,147,546	1,167,812	1,156,098	1,162,100	1,144,082
23,400 MWh/50,000 kW/120 kV	2,013,159	1,622,025	1,650,673	1,634,106	1,642,612	1,617,149
30,600 MWh/50,000 kW /120 kV	2,407,246	1,982,713	2,017,729	1,997,490	2,007,868	1,976,723

- 1) Rates used reflect a 3.50 per cent approved increase effective April 1, 2017.
- 2) Rates used reflect a 3.00 per cent approved increase effective April 1, 2018.
- 3) Rates used reflect a 1.76 per cent approved net bill increase effective April 1, 2019.
- 4) 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).
- 5) 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).
- 6) Rates used reflect a 1.40 per cent interim net bill decrease effective April 1, 2022.

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 zero per cent. For April 1, 2022 (Fiscal 2023), the deferral account rate rider was (2.0) per cent.

Table 10 BC Hydro Average Prices Summary

BC Hydro Average Prices Summary for the Current and Past Five Years						
CDN¢/kWh						
Vancouver, BC	April 1, 2017 ¹	April 1, 2018 ²	April 1, 2019 ³	April 1, 2020 ⁴	April 1, 2021 ⁵	April 1, 2022 ⁶
Residential						
625 kWh	12.10	10.28	10.47	10.38	10.44	10.31
750 kWh	11.68	10.58	10.77	10.67	10.74	10.59
1,000 kWh	11.15	11.42	11.62	11.51	11.58	11.39
2,000 kWh	10.36	12.67	12.90	12.77	12.84	12.60
3,000 kWh	10.10	13.09	13.32	13.19	13.26	13.00
Small Power						
750 kWh/6 kW	13.37	13.77	14.01	13.86	13.94	13.73
2,000 kWh/14 kW	12.49	12.86	13.08	12.95	13.02	12.82
10,000 kWh/40 kW	11.38	11.72	11.93	11.81	11.87	11.69
14,000 kWh/100 kW	12.99	13.37	13.61	13.47	13.54	13.33
25,000 kWh/100 kW	11.34	11.67	11.88	11.76	11.82	11.64
Medium Power						
100,000 kWh/500 kW	11.66	12.03	12.24	12.12	12.18	11.99
200,000 kWh/500 kW	8.72	8.99	9.15	9.06	9.10	8.97
200,000 kWh/1,000 kW	11.66	12.02	12.23	12.11	12.17	11.99
400,000 kWh/1,000 kW	8.72	8.99	9.15	9.06	9.10	8.96
1,170,000 kWh/2,500 kW	8.11	8.36	8.51	8.43	8.47	8.34
Large Power						
2,340 MWh/5,000 kW/25 kV	8.11	8.36	8.51	8.43	8.47	8.34
3,060 MWh/5,000 kW/25 kV	7.54	7.77	7.91	7.84	7.88	7.76
5,760 MWh/10,000 kW/120 kV	6.38	6.57	6.69	6.62	6.65	6.55
17,520 MWh//30,000 kW/120 kV	6.36	6.55	6.67	6.60	6.63	6.53
23,400 MWh/50,000 kW/120 kV	6.73	6.93	7.05	6.98	7.02	6.91
30,600 MWh/50,000 kW /120 kV	6.29	6.48	6.59	6.53	6.56	6.46

- 1) Rates used reflect a 3.50 per cent approved increase effective April 1, 2017.
- 2) Rates used reflect a 3.00 per cent approved increase effective April 1, 2018.
- 3) Rates used reflect a 1.76 per cent approved net bill increase effective April 1, 2019.
- 4) 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).
- 5) 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).
- 6) Rates used reflect a 1.40 per cent interim net bill decrease effective April 1, 2022.

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 zero per cent. For April 1, 2022 (Fiscal 2023), the deferral account rate rider was (2.0) per cent.

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, 2017	April 1, 2018	April 1, 2019	April 1, 2020	April 1, 2021	April 1, 2022
Residential						
625 kWh	3	3	3	3	3	2
750 kWh	3	3	3	3	3	3
1,000 kWh	5	3	3	5	3	3
2,000 kWh	9	7	7	6	7	5
3,000 kWh	9	8	8	8	8	7
Small Power						
750 kWh/6 kW	7	8	6	5	6	4
2,000 kWh/14 kW	7	6	5	5	5	3
10,000 kWh/40 kW	7	5	5	5	3	3
14,000 kWh/100 kW	5	5	3	3	2	1
25,000 kWh/100 kW	8	6	4	3	3	3
Medium Power						
100,000 kWh/500 kW	4	4	4	2	2	2
200,000 kWh/500 kW	5	3	4	3	3	2
200,000 kWh/1,000 kW	5	4	4	2	3	2
400,000 kWh/1,000 kW	5	4	4	3	3	3
1,170,000 kWh/2,500 kW	6	4	3	3	4	4
Large Power						
2,340 MWh/5,000 kW/25 kV	6	4	3	3	4	4
3,060 MWh/5,000 kW/25 kV	6	3	3	3	4	4
5,760 MWh/10,000 kW/120 kV	5	4	3	5	4	3
17,520 MWh//30,000 kW/120 kV	7	5	4	5	5	3
23,400 MWh/50,000 kW/120 kV	8	5	4	5	5	3
30,600 MWh/50,000 kW /120 kV	8	5	4	5	5	3

Average Residential Consumption and Average Bills April 1, 2022

An alternative metric to consider is the average monthly bill paid, and electricity consumed, by the “average” residential customer served by each utility in Canada. This measure is different from the reporting in the Hydro Quebec study, which compares utilities using common loads across all the utilities. Only 14 of the 22 participating utilities provide their average bill information, and the average bill information is not disclosed in the Hydro Quebec Report but is collected in their annual survey.

The rankings of the monthly residential bill are shown in the table below and reflect the differing average load characteristics of the utility. For example, even though Quebec has the lowest electricity rates in 2022 and 2021, its average monthly residential customer bill in 2022 and 2021 was 13 per cent and 17 per cent higher, respectively, than BC Hydro’s average residential monthly bill. Using this measurement, BC Hydro ranks first this year, reflecting both low rates and a relatively milder climate. BC Hydro’s ranking in 2021 was second.

Table 13 Ranking of Average Residential bill

Ranking	Utility	2022 Avg. bill/ month (\$)	2022 Avg. kWh/ month	Utility	2021 Avg. bill/ month (\$)	2021 Avg. kWh/ month
1	BC Hydro (Vancouver, BC)	92	839	Hydro Ottawa (Ottawa, ON)	87	630
2	Hydro Ottawa (Ottawa, ON)	92	630	BC Hydro (Vancouver, BC)	90	828
3	Hydro Quebec (Montreal, QC)	104	1,364	Hydro Quebec (Montreal, QC)	106	1,403
4	Manitoba Hydro (Winnipeg, MB)	132	1,319	Manitoba Hydro (Winnipeg, MB)	126	1,306
5	Newfoundland Power & Labrador Hydro (St. John's, NL)	166	1,235	Newfoundland Power & Labrador Hydro (St. John's, NL)	168	1,264
6	NB Power (Moncton, NB)	180	1,350	NB Power (Moncton, NB)	176	1,350

**BC Hydro Electricity Rate Comparison
Annual Report**

Report No. 15

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:

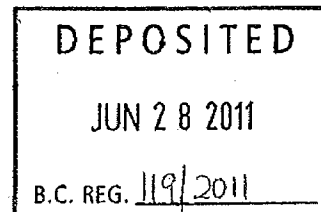
(a) include a comparison with at least one public utility in each of at least fifteen other jurisdictions in North America, including all of the following:

- (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

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