

2023 Comparison of Electricity Prices in Major North American Cities

Rates in effect April 1, 2023



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INTRODUCTION

Every year, Hydro-Québec compares the monthly electricity bills of Québec customers in the residential, commercial, institutional and industrial segments with those of customers of the various utilities serving 21 major North American cities.

This report details the principal conclusions of the comparative analysis of prices in effect on April 1, 2023. There are three sections. The first describes the method used to estimate electricity bills. The second examines the highlights of the seven consumption levels analyzed, with the help of charts. Finally, the third presents the results of the 21 consumption levels for which data were collected and compiled in the form of summary and detailed tables.

The most recent rate adjustments, time-of-use rates, adjustment clauses and applicable taxes, as well as a profile of the utilities in the study, appear in separate appendices.

MAJOR NORTH AMERICAN CITIES

AVERAGE PRICES FOR RESIDENTIAL CUSTOMERS^{1, 2} (IN ¢/kWh)³



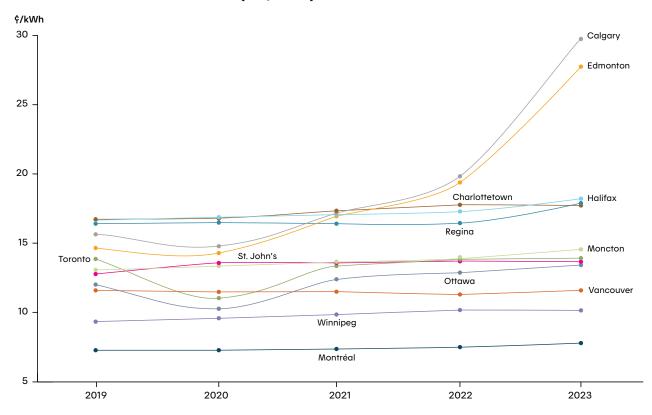
MAJOR NORTH AMERICAN CITIES

AVERAGE PRICES FOR LARGE-POWER CUSTOMERS^{1, 2} (IN ¢/KWH)³



MAJOR CANADIAN CITIES

OVERVIEW OF CHANGES IN AVERAGE PRICES FOR RESIDENTIAL CUSTOMERS (IN ¢/kWh) - 2019-2023^{1, 2, 3, 4}



AVERAGE PRICES FOR RESIDENTIAL CUSTOMERS (IN ¢/kWh)1, 2, 3, 4

	2019	2020	2021	2022	2023
Canadian Cities					
Montréal, QC	7.30	7.30	7.39	7.59	7.81
Calgary, AB	15.74	14.83	17.26	19.94	29.80
Charlottetown, PE	16.83	16.83	17.38	17.78	17.78
Edmonton, AB	14.68	14.29	16.99	19.48	27.78
Halifax, NS	16.69	16.89	17.09	17.30	18.27
Moncton, NB	13.10	13.42	13.66	13.94	14.61
Ottawa, ON	12.04	10.29	12.45	12.94	13.48
Regina, SK	16.51	16.51	16.51	16.51	17.89
St. John's, NL	12.80	13.60	13.60	13.76	13.73
Toronto, ON	13.89	11.10	13.43	13.88	13.88
Vancouver, BC	11.62	11.51	11.58	11.39	11.62
Winnipeg, MB	9.37	9.60	9.87	10.24	10.24

¹⁾ For a monthly consumption of 1,000 kWh.

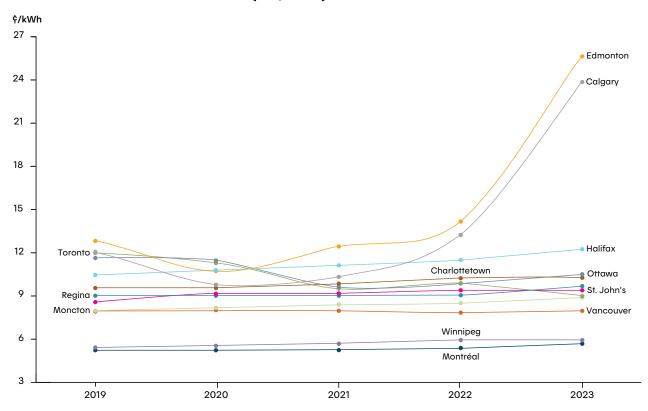
²⁾ In Canadian currency.

³⁾ Data from Comparison of Electricity Prices in Major North American Cities publications, Hydro-Québec, 2019–2023.

⁴⁾ Average prices excluding taxes.

MAJOR CANADIAN CITIES

OVERVIEW OF CHANGES IN AVERAGE PRICES FOR LARGE-POWER CUSTOMERS (IN ¢/kWh) - 2019-2023^{1, 2, 3, 4}



AVERAGE PRICES FOR LARGE-POWER CUSTOMERS (IN ¢/kWh)1, 2, 3, 4

	2019	2020	2021	2022	2023
Canadian Cities					
Montréal, QC	5.20	5.20	5.24	5.33	5.55
Calgary, AB	11.97	9.73	10.25	13.16	23.77
Charlottetown, PE	9.51	9.51	9.77	10.17	10.17
Edmonton, AB	12.80	10.64	12.35	14.08	25.62
Halifax, NS	10.39	10.72	11.05	11.40	12.13
Moncton, NB	7.93	8.13	8.28	8.44	8.81
Ottawa, ON	11.57	11.36	9.57	9.78	10.39
Regina, SK	8.98	8.98	8.98	8.98	9.57
St. John's, NL	8.52	9.12	9.12	9.32	9.28
Toronto, ON	11.91	11.23	9.45	9.76	8.88
Vancouver, BC	7.91	7.84	7.88	7.76	7.91
Winnipeg, MB	5.39	5.53	5.68	5.90	5.90

¹⁾ For a monthly consumption of 3,060,000 kWh and a power demand of 5,000 kW.

²⁾ In Canadian currency.

³⁾ Data from Comparison of Electricity Prices in Major North American Cities publications, Hydro-Québec, 2019-2023.

⁴⁾ Average prices excluding taxes.

METHOD

In addition to Hydro-Québec, this comparative analysis of electricity prices across North America includes 22 utilities: 12 serving the principal cities in the 9 other Canadian provinces, and 10 utilities in American states. The results are based in part on a survey to which 14 utilities responded, and in part on estimates of bills calculated by Hydro-Québec.

The results presented here show the total bill for various consumption levels. If the bill is calculated according to an unbundled rate, it includes all components, including supply, transmission and distribution.

PERIOD COVERED

Monthly bills have been calculated based on the rates in effect on April 1, 2023. The most recent rate adjustments applied by the Canadian utilities in the study between April 1, 2022, and April 1, 2023, are shown in Appendix A.

CONSUMPTION LEVELS

Seven consumption levels were selected for analysis. However, data were collected for 21 consumption levels and those results are presented in the detailed tables.

OPTIONAL PROGRAMS

The bills have been calculated according to base rates. Optional rates or programs offered by some utilities to their residential, commercial, institutional or industrial customers have not been taken into account, since the terms and conditions vary considerably from one utility to the next.

GEOGRAPHIC LOCATION

Electricity distributors sometimes apply different rates in the various cities they serve. As well, taxes may vary from one region to another. This, however, is not the case in Québec, where rates and taxes are applied uniformly except in territories located north of the 53rd parallel. For the purposes of this study, the bill calculations estimate as closely as possible the actual electricity bills of consumers in each target city, based on rates in effect on April 1, 2023.

TIME-OF-USE RATES

The rates applied by some utilities vary depending on the season and/or time of day when energy is consumed. In the United States, for example, a number of utilities set a higher price in summer, when demand for air-conditioning is stronger. In Québec, on the other hand, demand increases in winter because of heating requirements. Thus, for some utilities, April 1 may fall within a period in the year when the price is high, whereas for others it falls in a period when the price is low. An annual average price has therefore been calculated in the case of utilities with time-of-use rates. These utilities and the consumption levels to which time-of-use rates apply are listed in Appendix B.

ADJUSTMENT CLAUSES

The rates of some distributors include clauses that allow them to adjust their customers' electricity bills according to different variables. Since these adjustments may be applied monthly or over a longer period, the bills issued by a given distributor may have varied between April 1, 2022, and April 1, 2023, even though base rates remained the same. Appendix B lists the adjustment clauses taken into account when calculating bills.

TAXES

With the exception of the bills presented in Section 2, taxes are not included in any of the calculations. Appendix C lists the taxes applicable on April 1, 2023, by customer category; those which may be partially or fully refundable are indicated.

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EXCHANGE RATE

The exchange rate used to convert bills in U.S. dollars into Canadian dollars is \$0.7442 (CA\$1 = US\$0.7442), the rate in effect at noon on April 3, 2023. The Canadian dollar had thus depreciated by 6.88% relative to the U.S. dollar on April 1, 2022.

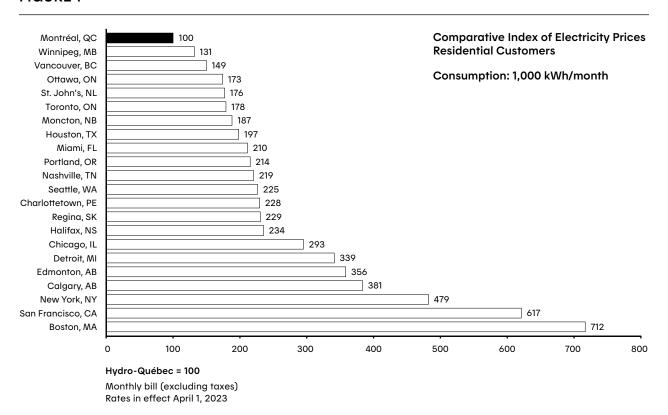
HIGHLIGHTS

The document *Electricity Rates effective April 1, 2023*, sets out Hydro-Québec's rates established in accordance with Schedule 1 of the *Hydro-Québec Act*. Three types of rates are in effect: domestic rates, for residential and farm customers (hereinafter, "residential customers"); the industrial rate, for large-power industrial customers; and general rates, for other customers. General rates are applied according to minimum billing demand: small power, medium power and large power. For comparison purposes, the electricity bills of the utilities in the study

have been analyzed according to these categories. The industrial rate has been used to calculate the bills of large-power customers.

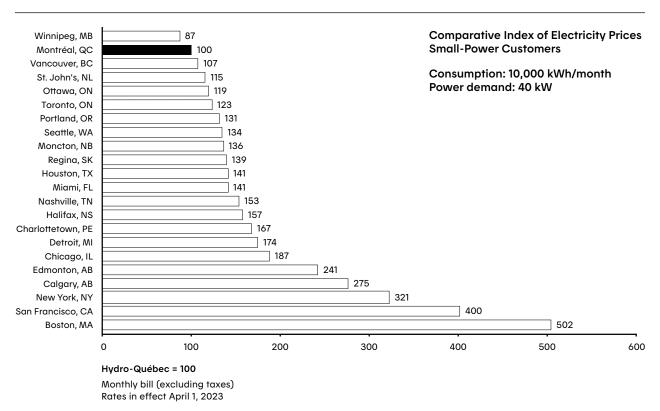
RESIDENTIAL CUSTOMERS

The rate applicable to Hydro-Québec's residential customers is among the most advantageous in North America. For customers whose monthly consumption is 1,000 kilowatthours (kWh), Montréal is once again in *first* place. Figure 1 illustrates the results of this comparison.



SMALL-POWER CUSTOMERS (LESS THAN 100 kW)

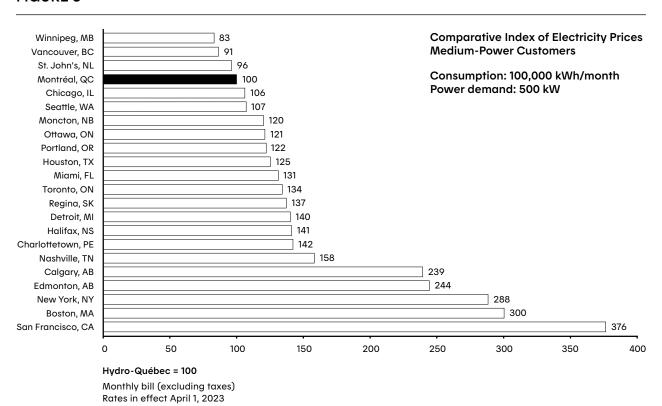
The comparison of bills for small-power customers is based on a monthly consumption of 10,000 kWh and a power demand of 40 kilowatts (kW). Again this year, Montréal is in second place. Figure 2 shows the comparative index of electricity prices.



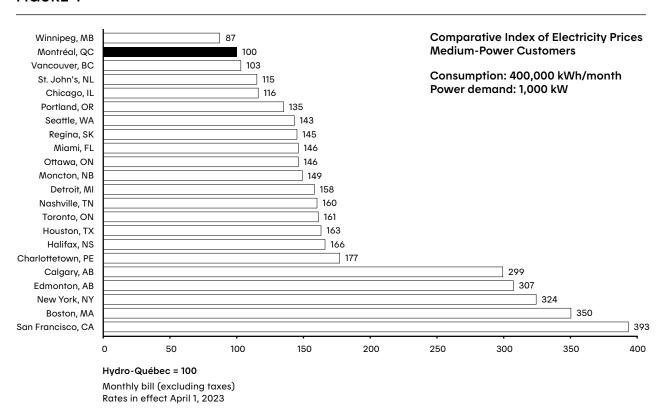
MEDIUM-POWER CUSTOMERS (100 TO 5,000 kW)

Three consumption levels were analyzed for medium-power customers. In all three cases, the bills of Hydro-Québec's customers have remained below the average of the other major North American cities. Figures 3, 4 and 5 show the comparative index of electricity prices for these consumption profiles.

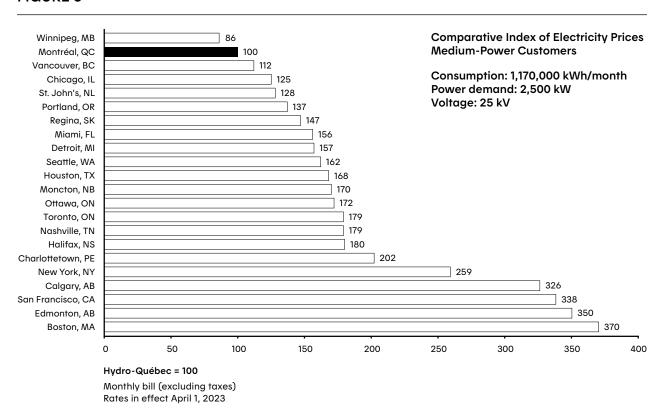
For medium-power customers with a monthly consumption of 100,000 kWh and a power demand of 500 kW, Montréal is in *fourth* place.



For customers with a monthly consumption of 400,000 kWh and a power demand of 1,000 kW, Montréal ranks second.

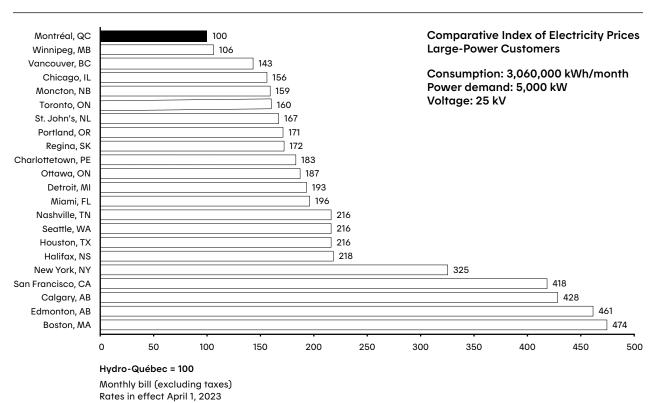


In the case of customers with a monthly consumption of 1,170,000 kWh and a power demand of 2,500 kW, Montréal remains in second place.

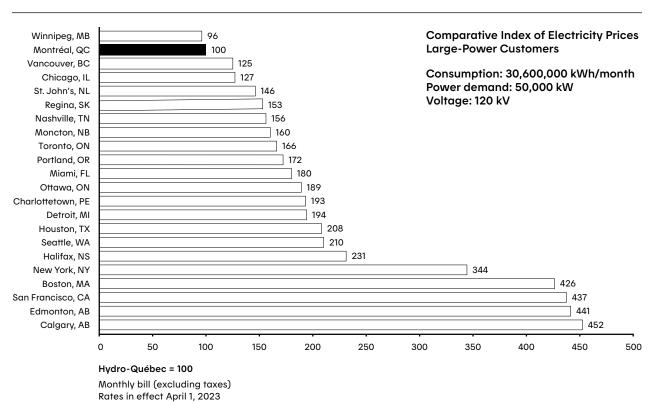


LARGE-POWER CUSTOMERS (5,000 kW OR MORE)

Figure 6 illustrates the comparative index of electricity prices for large-power customers with a monthly consumption of 3,060,000 kWh and a power demand of 5,000 kW. Montréal ranks *first*.



For industrial customers with a power demand of 50,000 kW and a load factor of 85%, Montréal is in *second* place, coming in just behind Winnipeg.



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Detailed Results

Summary Tables (excluding taxes)

Monthly Bills

Average Prices

Comparative Index

MONTHLY BILLS ON APRIL 1, 2023

(in C\$)

Summary Table (excluding taxes)

	Residential Customers	Small- Power Customers	Medi	um-Power Cust	omers	Large-Powe	er Customers
Power demand Consumption	1,000 kWh	40 kW 10,000 kWh	500 kW 100,000 kWh	1,000 kW	2,500 kW¹ 1,170,000 kWh	5,000 kW ¹	50,000 kW ² 30,600,000 kWh
Load factor		35%	28%	56%	65%	85%	85%
Canadian Cities							
Montréal, QC	78.14	1,109.55	13,498.00	35,672.90	88,573.23	169,899.25	1,608,302.50
Calgary, AB	298.03	3,054.71	32,240.33	106,777.54	288,785.92	727,269.31	7,265,025.42
Charlottetown, PE ³	177.77	1,849.17	19,195.97	63,140.97	178,842.97	311,180.00	3,111,800.00
Edmonton, AB ⁴	277.81	2,677.91	32,891.06	109,651.48	310,078.30	784,033.88	7,086,820.07
Halifax, NS	182.71	1,737.94	19,094.00	59,230.00	159,732.15	371,217.46	3,712,199.83
Moncton, NB	146.07	1,510.65	16,244.65	53,164.65	150,482.65	269,721.65	2,571,800.00
Ottawa, ON	134.80	1,323.89	16,285.70	52,229.46	152,765.84	317,974.46	3,042,660.49
Regina, SK	178.94	1,542.78	18,549.00	51,770.10	129,917.75	292,824.48	2,461,848.10
St. John's, NL ⁵	137.27	1,272.22	12,905.27	41,122.04	113,776.15	284,067.48	2,347,714.00
Toronto, ON ³	138.76	1,368.86	18,055.74	57,599.93	158,158.43	271,742.09	2,676,116.54
Vancouver, BC	116.19	1,191.57	12,234.62	36,578.72	99,589.82	242,140.64	2,016,114.17
Winnipeg, MB	102.44	969.24	11,140.77	31,010.37	76,447.80	180,415.65	1,539,767.52
American Cities							
Boston, MA	556.28	5,567.19	40,546.90	124,912.66	327,681.13	805,395.59	6,856,234.88
Chicago, IL	228.63	2,079.43	14,259.92	41,401.49	110,815.36	265,328.70	2,044,727.72
Detroit, MI ³	264.56	1,925.67	18,962.17	56,287.14	138,753.02	327,115.72	3,126,342.70
Houston, TX ³	153.98	1,562.51	16,923.38	58,277.68	148,830.12	367,612.77	3,346,720.10
Miami, FL³	164.16	1,565.55	17,636.39	51,996.78	138,183.82	333,541.92	2,893,894.91
Nashville, TN	170.99	1,701.12	21,324.36	57,187.48	158,217.79	366,603.44	2,510,345.40
New York, NY ³	373.94	3,560.85	38,883.99	115,499.95	229,557.91	553,011.14	5,528,365.44
Portland, OR ³	167.04	1,452.47	16,470.57	48,106.65	120,954.16	290,630.95	2,771,249.41
San Francisco, CA ³	481.80	4,433.47	50,722.53	140,030.08	299,259.17	709,477.74	7,022,847.58
Seattle, WA	175.73	1,491.00	14,386.46	51,007.71	143,712.90	366,666.34	3,372,915.80
AVERAGE	213.91	2,043.08	21,475.08	65,575.26	169,232.56	391,266.85	3,586,991.48

¹⁾ Supply voltage of 25 kV, customer-owned transformer.

Supply voltage of 120 kV, customer-owned transformer.
 These bills have been estimated by Hydro-Québec and may differ from actual bills.

⁴⁾ Bills corresponding to consumption levels of 500 kW or more have been estimated by Hydro-Québec based on the applicable general rate.

⁵⁾ Newfoundland and Labrador Hydro rates for customers with a power demand of 30,000 kW or more; Newfoundland Power rates for all other customer categories.

AVERAGE PRICES ON APRIL 1, 2023

(in ¢/kWh)1

Summary Table (excluding taxes)

	Residential	Small- Power					
	Customers	Customers	Medi	um-Power Cust	omers	Large-Pow	er Customers
Power demand	4 000 1100	40 kW	500 kW	1,000 kW	2,500 kW ²	5,000 kW ²	50,000 kW ³
Consumption Load factor	1,000 kWh	10,000 kWh 35%	100,000 kWh 28%	400,000 kWh 56%	1,170,000 kWh 65%	3,060,000 kwn 85%	30,600,000 kWh 85%
Loud Ideioi		00%	20%			3370	00%
Canadian Cities							
Montréal, QC	7.81	11.10	13.50	8.92	7.57	5.55	5.26
Calgary, AB	29.80	30.55	32.24	26.69	24.68	23.77	23.74
Charlottetown, PE ⁴	17.78	18.49	19.20	15.79	15.29	10.17	10.17
Edmonton, AB ⁵	27.78	26.78	32.89	27.41	26.50	25.62	23.16
Halifax, NS	18.27	17.38	19.09	14.81	13.65	12.13	12.13
Moncton, NB	14.61	15.11	16.24	13.29	12.86	8.81	8.40
Ottawa, ON	13.48	13.24	16.29	13.06	13.06	10.39	9.94
Regina, SK	17.89	15.43	18.55	12.94	11.10	9.57	8.05
St. John's, NL ⁶	13.73	12.72	12.91	10.28	9.72	9.28	7.67
Toronto, ON ⁴	13.88	13.69	18.06	14.40	13.52	8.88	8.75
Vancouver, BC	11.62	11.92	12.23	9.14	8.51	7.91	6.59
Winnipeg, MB	10.24	9.69	11.14	7.75	6.53	5.90	5.03
American Cities							
Boston, MA	55.63	55.67	40.55	31.23	28.01	26.32	22.41
Chicago, IL	22.86	20.79	14.26	10.35	9.47	8.67	6.68
Detroit, MI ⁴	26.46	19.26	18.96	14.07	11.86	10.69	10.22
Houston, TX ⁴	15.40	15.63	16.92	14.57	12.72	12.01	10.94
Miami, FL ⁴	16.42	15.66	17.64	13.00	11.81	10.90	9.46
Nashville, TN	17.10	17.01	21.32	14.30	13.52	11.98	8.20
New York, NY ⁴	37.39	35.61	38.88	28.87	19.62	18.07	18.07
Portland, OR ⁴	16.70	14.52	16.47	12.03	10.34	9.50	9.06
San Francisco, CA ⁴	48.18	44.33	50.72	35.01	25.58	23.19	22.95
Seattle, WA	17.57	14.91	14.39	12.75	12.28	11.98	11.02
AVERAGE	21.39	20.43	21.48	16.39	14.46	12.79	11.72

¹⁾ In Canadian currency.

²⁾ Supply voltage of 25 kV, customer-owned transformer.

³⁾ Supply voltage of 120 kV, customer-owned transformer.
4) These bills have been estimated by Hydro-Québec and may differ from actual bills.

⁵⁾ Bills corresponding to consumption levels of 500 kW or more have been estimated by Hydro-Québec based on the applicable general rate.

⁶⁾ Newfoundland and Labrador Hydro rates for customers with a power demand of 30,000 kW or more; Newfoundland Power rates for all other customer categories.

COMPARATIVE INDEX ON APRIL 1, 2023

(Hydro-Québec = 100)

Summary Table (excluding taxes)

	Residential	Small- Power					
	Customers	Customers		um-Power Cust	1		er Customers
Power demand	1,000 kWh	40 kW 10,000 kWh	500 kW 100,000 kWh	1,000 kW	2,500 kW ¹ 1,170,000 kWh	5,000 kW1	50,000 kW ² 30,600,000 kWh
Consumption Load factor	1,000 KWN	35%	28%	400,000 kWh 56%	1,170,000 KWN	3,000,000 kwn 85%	85%
Canadian Cities							
Montréal, QC	100	100	100	100	100	100	100
Calgary, AB	381	275	239	299	326	428	452
Charlottetown, PE ³	228	167	142	177	202	183	193
Edmonton, AB ⁴	356	241	244	307	350	461	441
Halifax, NS	234	157	141	166	180	218	231
Moncton, NB	187	136	120	149	170	159	160
Ottawa, ON	173	119	121	146	172	187	189
Regina, SK	229	139	137	145	147	172	153
St. John's, NL ⁵	176	115	96	115	128	167	146
Toronto, ON ³	178	123	134	161	179	160	166
Vancouver, BC	149	107	91	103	112	143	125
Winnipeg, MB	131	87	83	87	86	106	96
Amaziana Giriaa							
American Cities	712	502	300	350	370	474	426
Boston, MA	293	187	106	116		156	127
Chicago, IL Detroit, MI ³	339	174	140	158	125 157	193	194
Houston, TX ³	197	174	125	163	168	216	208
Miami, FL ³	210	141	131	146	156	196	180
Nashville, TN	219	153	158	160	179	216	156
New York, NY ³	479	321	288	324	259	325	344
Portland, OR ³	214	131	122	135	137	171	172
San Francisco, CA ³	617	400	376	393	338	418	437
Seattle, WA	225	134	107	143	162	216	210
coame, wa	225	154	107	143	102	210	210
AVERAGE	274	184	159	184	191	230	223

¹⁾ Supply voltage of 25 kV, customer-owned transformer.

²⁾ Supply voltage of 120 kV, customer-owned transformer.

³⁾ These bills have been estimated by Hydro-Québec and may differ from actual bills.

⁴⁾ Bills corresponding to consumption levels of 500 kW or more have been estimated by Hydro-Québec based on the applicable general rate.

⁵⁾ Newfoundland and Labrador Hydro rates for customers with a power demand of 30,000 kW or more; Newfoundland Power rates for all other customer categories.



Detailed Results

Summary Tables (including taxes)

Monthly Bills

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MONTHLY BILLS ON APRIL 1, 2023

(in C\$)

Summary Table (including taxes)

	Residential Customers	Small- Power Customers	Medi	um-Power Cust	omers	Large-Powe	er Customers
Power demand Consumption Load factor	1,000 kWh	40 kW 10,000 kWh 35%	500 kW 100,000 kWh 28%	1,000 kW 400,000 kWh 56%	2,500 kW¹ 1,170,000 kWh 65%	5,000 kW ¹ 3,060,000 kWh 85%	50,000 kW² 30,600,000 kWh 85%
Canadian Cities							
Montréal, QC	89.84	1,275.71	15,519.33	41,014.92	101,837.07	195,341.66	1,849,145.80
Calgary, AB	312.93	3,207.45	33,852.35	112,116.42	303,225.22	763,632.78	7,628,276.69
Charlottetown, PE ³	204.44	2,126.55	22,075.37	72,612.12	205,669.42	357,857.00	3,578,570.00
Edmonton, AB ⁴	291.70	2,811.81	34,535.61	115,134.06	325,582.21	823,235.57	7,441,161.07
Halifax, NS	191.85	1,998.63	21,958.10	68,114.50	183,691.97	426,900.08	4,269,029.80
Moncton, NB	167.98	1,737.25	18,681.35	61,139.35	173,055.05	310,179.90	2,957,570.00
Ottawa, ON	154.64	1,518.80	18,402.85	59,019.29	172,625.40	359,311.14	3,438,206.36
Regina, SK	216.41	1,982.01	23,615.45	67,191.92	169,590.54	386,440.64	3,297,267.92
St. John's, NL ⁵	157.86	1,463.05	14,841.06	47,290.35	130,842.57	326,677.60	2,699,871.10
Toronto, ON ³	159.19	1,570.40	20,402.98	65,087.92	178,719.03	307,068.57	3,024,011.69
Vancouver, BC	124.00	1,251.15	12,846.36	38,407.66	104,569.31	254,247.67	2,116,919.88
Winnipeg, MB	117.42	1,136.44	13,062.55	36,359.66	85,353.97	201,434.07	1,719,150.45
American Cities							
Boston, MA	556.28	5,905.71	42,986.76	132,342.45	347,057.75	852,846.86	7,255,889.88
Chicago, IL	241.50	2,183.75	15,209.98	45,004.07	120,945.75	290,679.20	2,265,024.74
Detroit, MI ³	288.38	2,137.49	21,048.01	62,478.73	154,015.86	363,098.45	3,470,240.40
Houston, TX ³	155.52	1,687.67	18,264.71	62,975.98	161,016.46	397,756.56	3,620,980.78
Miami, FL³	191.34	1,953.38	22,063.75	64,570.55	171,161.74	412,077.67	3,536,110.77
Nashville, TN	170.99	1,820.20	22,817.06	61,190.60	169,293.04	392,265.68	2,686,069.58
New York, NY ³	406.32	3,970.19	43,353.96	128,777.36	255,946.96	616,582.94	6,163,882.70
Portland, OR ³	169.33	1,472.53	16,700.47	48,773.85	122,708.03	294,858.93	2,811,647.98
San Francisco, CA ³	482.21	4,659.18	53,298.97	147,192.83	314,693.78	746,185.17	7,386,325.36
Seattle, WA	175.73	1,491.00	14,386.46	51,007.71	143,712.90	366,666.34	3,372,915.80
AVERAGE	228.45	2,243.65	23,632.89	72,172.83	186,150.64	429,333.84	3,935,830.40

¹⁾ Supply voltage of 25 kV, customer-owned transformer.

²⁾ Supply voltage of 120 kV, customer-owned transformer.

³⁾ These bills have been estimated by Hydro-Québec and may differ from actual bills.

 ⁴⁾ Bills corresponding to consumption levels of 500 kW or more have been estimated by Hydro-Québec based on the applicable general rate.
 5) Newfoundland and Labrador Hydro rates for customers with a power demand of 30,000 kW or more; Newfoundland Power rates for all other

AVERAGE PRICES ON APRIL 1, 2023

(in ¢/kWh)1

Summary Table (including taxes)

	Residential Customers	Small- Power Customers	Medi	um-Power Cust	omers	Large-Powe	er Customers
Power demand Consumption Load factor	1,000 kWh	40 kW 10,000 kWh 35%	500 kW 100,000 kWh 28%	1,000 kW 400,000 kWh 56%	2,500 kW ² 1,170,000 kWh 65%	5,000 kW² 3,060,000 kWh 85%	50,000 kW³ 30,600,000 kWh 85%
Load Ideioi		35%	20%	30%	05%	05%	
Canadian Cities							
Montréal, QC	8.98	12.76	15.52	10.25	8.70	6.38	6.04
Calgary, AB	31.29	32.07	33.85	28.03	25.92	24.96	24.93
Charlottetown, PE ⁴	20.44	21.27	22.08	18.15	17.58	11.69	11.69
Edmonton, AB ⁵	29.17	28.12	34.54	28.78	27.83	26.90	24.32
Halifax, NS	19.19	19.99	21.96	17.03	15.70	13.95	13.95
Moncton, NB	16.80	17.37	18.68	15.28	14.79	10.14	9.67
Ottawa, ON	15.46	15.19	18.40	14.75	14.75	11.74	11.24
Regina, SK	21.64	19.82	23.62	16.80	14.49	12.63	10.78
St. John's, NL ⁶	15.79	14.63	14.84	11.82	11.18	10.68	8.82
Toronto, ON ⁴	15.92	15.70	20.40	16.27	15.28	10.03	9.88
Vancouver, BC	12.40	12.51	12.85	9.60	8.94	8.31	6.92
Winnipeg, MB	11.74	11.36	13.06	9.09	7.30	6.58	5.62
American Cities							
Boston, MA	55.63	59.06	42.99	33.09	29.66	27.87	23.71
Chicago, IL	24.15	21.84	15.21	11.25	10.34	9.50	7.40
Detroit, MI ⁴	28.84	21.37	21.05	15.62	13.16	11.87	11.34
Houston, TX ⁴	15.55	16.88	18.26	15.74	13.76	13.00	11.83
Miami, FL ⁴	19.13	19.53	22.06	16.14	14.63	13.47	11.56
Nashville, TN	17.10	18.20	22.82	15.30	14.47	12.82	8.78
New York, NY ⁴	40.63	39.70	43.35	32.19	21.88	20.15	20.14
Portland, OR ⁴	16.93	14.73	16.70	12.19	10.49	9.64	9.19
San Francisco, CA ⁴	48.22	46.59	53.30	36.80	26.90	24.39	24.14
Seattle, WA	17.57	14.91	14.39	12.75	12.28	11.98	11.02
AVERAGE	22.84	22.44	23.63	18.04	15.91	14.03	12.86

¹⁾ In Canadian currency.

²⁾ Supply voltage of 25 kV, customer-owned transformer.

³⁾ Supply voltage of 120 kV, customer-owned transformer.
4) These bills have been estimated by Hydro-Québec and may differ from actual bills.

⁵⁾ Bills corresponding to consumption levels of 500 kW or more have been estimated by Hydro-Québec based on the applicable general rate.

⁶⁾ Newfoundland and Labrador Hydro rates for customers with a power demand of 30,000 kW or more; Newfoundland Power rates for all other customer categories.

COMPARATIVE INDEX ON APRIL 1, 2023

(Hydro-Québec = 100)

Summary Table (including taxes)

	Residential Customers	Small- Power Customers	Medi	um-Power Cust	omers	Large-Powe	er Customers
Power demand Consumption Load factor	1,000 kWh	40 kW 10,000 kWh 35%	500 kW 100,000 kWh 28%	1,000 kW 400,000 kWh 56%	2,500 kW¹ 1,170,000 kWh 65%	5,000 kW¹ 3,060,000 kWh 85%	50,000 kW² 30,600,000 kWh 85%
Loud racioi		30%	20%			00%	
Canadian Cities							
Montréal, QC	100	100	100	100	100	100	100
Calgan, AB	348	251	218	273	298	391	413
Calgary, AB Charlottetown, PE ³	228	167	142	177	298	183	194
Edmonton, AB ⁴	325	220	223	281	320	421	402
Halifax, NS	214	157	141	166	180	219	231
Moncton, NB	187	136	120	149	170	159	160
Ottawa, ON	172	119	119	144	170	184	186
Regina, SK	241	155	152	164	167	198	178
St. John's, NL ⁵	176	115	96	115	128	167	146
Toronto, ON ³	177	123	131	159	175	157	164
Vancouver, BC	138	98	83	94	103	130	114
Winnipeg, MB	131	89	84	89	84	103	93
American Cities	/40	440		200	044	407	200
Boston, MA	619	463	277	323	341	437	392
Chicago, IL	269	171	98	110	119	149	122
Detroit, MI ³	321	168	136	152	151	186	188
Houston, TX ³	173	132	118	154	158	204	196
Miami, FL ³	213 190	153 143	142	157	168 166	211	191 145
Nashville, TN New York, NY ³	452	311	147 279	149 314	251	316	333
Portland, OR ³	188	115	108	119	120	151	152
San Francisco, CA ³	537	365	343	359	309	382	399
Seattle, WA	196	117	93	124	141	188	182
AVERAGE	254	176	152	176	183	220	213

¹⁾ Supply voltage of 25 kV, customer-owned transformer.

²⁾ Supply voltage of 120 kV, customer-owned transformer.

³⁾ These bills have been estimated by Hydro-Québec and may differ from actual bills.

⁴⁾ Bills corresponding to consumption levels of 500 kW or more have been estimated by Hydro-Québec based on the applicable general rate.

⁵⁾ Newfoundland and Labrador Hydro rates for customers with a power demand of 30,000 kW or more; Newfoundland Power rates for all other customer categories.



Detailed Results Residential Customers

Monthly Bills

Average Prices

Comparative Index

RESIDENTIAL CUSTOMERS

Monthly Bills on April 1, 2023 (in C\$)

Consumption	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
Canadian Cities					
	50.70	(4.07	70.44	474.40	074.00
Montréal, QC	53.73	61.87	78.14	171.49	271.90
Calgary, AB	197.21	230.82	298.03	566.89	835.74
Charlottetown, PE ¹	120.32	139.47	177.77	330.97	453.77
Edmonton, AB	183.49	214.94	277.81	529.34	780.87
Halifax, NS	121.38	141.83	182.71	346.25	509.79
Moncton, NB	100.51	115.70	146.07	267.57	389.07
Ottawa, ON	95.21	108.41	134.80	240.42	346.04
Regina, SK	123.08	141.70	178.94	327.89	476.84
St. John's, NL ²	91.67	106.87	137.27	258.86	380.45
Toronto, ON ¹	100.16	113.03	138.76	241.70	344.63
Vancouver, BC	65.69	81.00	116.19	256.97	397.75
Winnipeg, MB	67.48	79.13	102.44	195.68	288.92
American Cities					
Boston, MA	352.71	420.59	556.28	1,099.11	1,641.95
Chicago, IL	150.26	176.37	228.63	437.67	646.72
Detroit, MI ¹	165.10	198.25	264.56	529.81	795.05
Houston, TX ¹	111.82	130.33	153.98	302.06	450.14
Miami, FL ¹	107.38	126.31	164.16	342.35	520.55
Nashville, TN	118.74	136.16	170.99	310.33	460.41
New York, NY ¹	242.12	286.06	373.94	725.45	1,076.96
Portland, OR ¹	110.55	129.38	167.04	317.67	481.38
San Francisco, CA ¹	280.68	352.10	481.80	1,053.10	1,624.40
Seattle, WA	109.88	131.82	175.73	351.36	526.98
AVERAGE	139.51	164.64	213.91	418.31	622.74

These bills have been estimated by Hydro-Québec and may differ from actual bills.
 Newfoundland Power rates.

RESIDENTIAL CUSTOMERS

Average Prices on April 1, 2023 (in ¢/kWh)¹

Consumption	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
Canadian Cities					
	9.40	9.25	7.81	0 57	9.06
Montréal, QC	8.60	8.25	7.01	8.57	9.06
Calgary, AB	31.55	30.78	29.80	28.34	27.86
Charlottetown, PE ²	19.25	18.60	17.78	16.55	15.13
Edmonton, AB	29.36	28.66	27.78	26.47	26.03
Halifax, NS	19.42	18.91	18.27	17.31	16.99
Moncton, NB	16.08	15.43	14.61	13.38	12.97
Ottawa, ON	15.23	14.45	13.48	12.02	11.53
Regina, SK	19.69	18.89	17.89	16.39	15.89
St. John's, NL ³	14.67	14.25	13.73	12.94	12.68
Toronto, ON ²	16.03	15.07	13.88	12.08	11.49
Vancouver, BC	10.51	10.80	11.62	12.85	13.26
Winnipeg, MB	10.80	10.55	10.24	9.78	9.63
American Cities					
Boston, MA	56.43	56.08	55.63	54.96	54.73
Chicago, IL	24.04	23.52	22.86	21.88	21.56
Detroit, MI ²	26.42	26.43	26.46	26.49	26.50
Houston, TX ²	17.89	17.38	15.40	15.10	15.00
Miami, FL ²	17.18	16.84	16.42	17.12	17.35
Nashville, TN	19.00	18.15	17.10	15.52	15.35
New York, NY ²	38.74	38.14	37.39	36.27	35.90
Portland, OR ²	17.69	17.25	16.70	15.88	16.05
San Francisco, CA ²	44.91	46.95	48.18	52.66	54.15
Seattle, WA	17.58	17.58	17.57	17.57	17.57
AVERAGE	22.32	21.95	21.39	20.92	20.76

In Canadian currency.
 These bills have been estimated by Hydro-Québec and may differ from actual bills.
 Newfoundland Power rates.

RESIDENTIAL CUSTOMERS

Comparative Index on April 1, 2023 (Hydro-Québec = 100)

Consumption	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
Canadian Cities					
Montréal, QC	100	100	100	100	100
Calgary, AB	367	373	381	331	307
Charlottetown, PE ¹	224	225	228	193	167
Edmonton, AB	342	347	356	309	287
Halifax, NS	226	229	234	202	187
Moncton, NB	187	187	187	156	143
Ottawa, ON	177	175	173	140	127
Regina, SK	229	229	229	191	175
St. John's, NL ²	171	173	176	151	140
Toronto, ON¹	186	183	178	141	127
Vancouver, BC	122	131	149	150	146
Winnipeg, MB	126	128	131	114	106
American Cities					
Boston, MA	656	680	712	641	604
Chicago, IL	280	285	293	255	238
Detroit, MI ¹	307	320	339	309	292
Houston, TX ¹	208	211	197	176	166
Miami, FL¹	200	204	210	200	191
Nashville, TN	221	220	219	181	169
New York, NY ¹	451	462	479	423	396
Portland, OR ¹	206	209	214	185	177
San Francisco, CA ¹	522	569	617	614	597
Seattle, WA	204	213	225	205	194
AVERAGE	260	266	274	244	229

¹⁾ These bills have been estimated by Hydro-Québec and may differ from actual bills.
2) Newfoundland Power rates.

04

Detailed Results Small-Power Customers

Monthly Bills

Average Prices

Comparative Index

SMALL-POWER CUSTOMERS

Monthly Bills on April 1, 2023 (in C\$)

Power demand	6 kW	6 kW 14 kW 40 kW 1	100 kW	100 kW	
Consumption	750 kWh	2,000 kWh	10,000 kWh	14,000 kWh	25,000 kWh
Load factor	17%	20%	35%	19%	35%
Canadian Cities					
Montréal, QC	95.84	232.83	1,109.55	2,030.18	3,005.65
Calgary, AB	243.47	555.94	3,054.71	4,823.11	7,225.11
Charlottetown, PE¹	164.90	398.77	1,849.17	3,151.37	4,516.47
Edmonton, AB	222.92	554.67	2,677.91	4,826.86	7,070.48
Halifax, NS	138.42	327.89	1,737.94	2,989.78	4,344.85
Moncton, NB	135.45	318.45	1,510.65	2,632.25	3,769.65
Ottawa, ON	117.69	280.68	1,323.89	2,491.47	3,913.80
Regina, SK	153.80	341.50	1,542.78	2,955.12	3,867.60
St. John's, NL ²	111.99	293.97	1,272.22	2,194.97	3,163.87
Toronto, ON¹	136.59	303.12	1,368.86	2,639.74	4,206.78
Vancouver, BC	105.00	261.55	1,191.57	1,902.79	2,966.74
Winnipeg, MB	91.88	210.44	969.24	1,985.12	2,632.42
American Cities					
Boston, MA	333.93	1,038.51	5,567.19	10,097.53	14,600.85
Chicago, IL	221.98	514.11	2,079.43	3,429.68	5,150.27
Detroit, MI ¹	158.90	411.31	1,925.67	2,682.84	4,765.08
Houston, TX ¹	111.87	402.20	1,562.51	2,760.79	3,885.29
Miami, FL¹	136.19	334.78	1,565.55	2,842.57	3,853.44
Nashville, TN	197.15	424.41	1,701.12	3,991.33	4,869.55
New York, NY ¹	317.66	1,013.61	3,560.85	6,705.12	8,784.69
Portland, OR ¹	143.53	343.32	1,452.47	2,440.44	3,582.07
San Francisco, CA ¹	351.33	914.81	4,433.47	7,198.74	10,668.25
Seattle, WA	120.03	305.29	1,491.00	2,235.69	3,463.99
AVERAGE	173.21	444.64	2,043.08	3,591.25	5,195.77

These bills have been estimated by Hydro-Québec and may differ from actual bills.
 Newfoundland Power rates.

SMALL-POWER CUSTOMERS

Average Prices on April 1, 2023 (in ¢/kWh)¹

Power demand	6 kW	14 kW	40 kW	100 kW	100 kW
Consumption	750 kWh	2,000 kWh	10,000 kWh	14,000 kWh	25,000 kWh
Load factor	17%	20%	35%	19%	35%
Canadian Cities					
Montréal, QC	12.78	11.64	11.10	14.50	12.02
Calgary, AB	32.46	27.80	30.55	34.45	28.90
Charlottetown, PE ²	21.99	19.94	18.49	22.51	18.07
Edmonton, AB	29.72	27.73	26.78	34.48	28.28
Halifax, NS	18.46	16.39	17.38	21.36	17.38
Moncton, NB	18.06	15.92	15.11	18.80	15.08
Ottawa, ON	15.69	14.03	13.24	17.80	15.66
Regina, SK	20.51	17.08	15.43	21.11	15.47
St. John's, NL ³	14.93	14.70	12.72	15.68	12.66
Toronto, ON ²	18.21	15.16	13.69	18.86	16.83
Vancouver, BC	14.00	13.08	11.92	13.59	11.87
Winnipeg, MB	12.25	10.52	9.69	14.18	10.53
American Cities					
Boston, MA	44.52	51.93	55.67	72.13	58.40
Chicago, IL	29.60	25.71	20.79	24.50	20.60
Detroit, MI ²	21.19	20.57	19.26	19.16	19.06
Houston, TX ²	14.92	20.11	15.63	19.72	15.54
Miami, FL ²	18.16	16.74	15.66	20.30	15.41
Nashville, TN	26.29	21.22	17.01	28.51	19.48
New York, NY ²	42.35	50.68	35.61	47.89	35.14
Portland, OR ²	19.14	17.17	14.52	17.43	14.33
San Francisco, CA ²	46.84	45.74	44.33	51.42	42.67
Seattle, WA	16.00	15.26	14.91	15.97	13.86
	10.00	10.20	13.71	10.71	.5.55
AVERAGE	23.09	22.23	20.43	25.65	20.78

In Canadian currency.
 These bills have been estimated by Hydro-Québec and may differ from actual bills.
 Newfoundland Power rates.

SMALL-POWER CUSTOMERS

Comparative Index on April 1, 2023 (Hydro-Québec = 100)

Power demand	6 kW	14 kW	40 kW	100 kW	100 kW
Consumption	750 kWh	2,000 kWh	10,000 kWh	14,000 kWh	25,000 kWh
Load factor	17%	20%	35%	19%	35%
Canadian Cities					
Montréal, QC	100	100	100	100	100
Calgary, AB	254	239	275	238	240
Charlottetown, PE ¹	172	171	167	155	150
Edmonton, AB	233	238	241	238	235
Halifax, NS	144	141	157	147	145
Moncton, NB	141	137	136	130	125
Ottawa, ON	123	121	119	123	130
Regina, SK	160	147	139	146	129
St. John's, NL ²	117	126	115	108	105
Toronto, ON¹	143	130	123	130	140
Vancouver, BC	110	112	107	94	99
Winnipeg, MB	96	90	87	98	88
American Cities					
Boston, MA	348	446	502	497	486
Chicago, IL	232	221	187	169	171
Detroit, MI ¹	166	177	174	132	159
Houston, TX ¹	117	173	141	136	129
Miami, FL¹	142	144	141	140	128
Nashville, TN	206	182	153	197	162
New York, NY ¹	331	435	321	330	292
Portland, OR ¹	150	147	131	120	119
San Francisco, CA ¹	367	393	400	355	355
Seattle, WA	125	131	134	110	115
AVERAGE	181	191	184	177	173

These bills have been estimated by Hydro-Québec and may differ from actual bills.
 Newfoundland Power rates.

05

Detailed Results Medium-Power Customers

Monthly Bills

Average Prices

Comparative Index

MEDIUM-POWER CUSTOMERS

Monthly Bills on April 1, 2023 (in C\$)

Power demand	500 kW	500 kW	1,000 kW	1,000 kW	2,500 kW ¹
Consumption	100,000 kWh	200,000 kWh	200,000 kWh	400,000 kWh	1,170,000 kWh
Load factor	28%	56%	28%	56%	65%
Canadian Citics					
Canadian Cities	40 400 00	40.000.50	01.001.00	05 (70 00	00.570.00
Montréal, QC	13,498.00	19,203.50	26,996.00	35,672.90	88,573.23
Calgary, AB	32,240.33	53,768.27	63,721.66	106,777.54	288,785.92
Charlottetown, PE ²	19,195.97	31,605.97	38,320.97	63,140.97	178,842.97
Edmonton, AB ³	32,891.06	55,856.02	63,721.57	109,651.48	310,078.30
Halifax, NS	19,094.00	29,615.00	38,188.00	59,230.00	159,732.15
Moncton, NB	16,244.65	26,584.65	32,484.65	53,164.65	150,482.65
Ottawa, ON	16,285.70	26,214.85	32,371.16	52,229.46	152,765.84
Regina, SK	18,549.00	25,771.00	37,326.10	51,770.10	129,917.75
St. John's, NL ⁴	12,905.27	21,248.22	24,593.74	41,122.04	113,776.15
Toronto, ON ²	18,055.74	29,121.83	35,689.06	57,599.93	158,158.43
Vancouver, BC	12,234.62	18,293.42	24,461.12	36,578.72	99,589.82
Winnipeg, MB	11,140.77	15,632.77	22,026.37	31,010.37	76,447.80
American Cities					
Boston, MA	40,546.90	62,563.83	80,878.80	124,912.66	327,681.13
Chicago, IL	14,259.92	20,789.80	28,341.71	41,401.49	110,815.36
Detroit, MI ²	18,962.17	28,272.86	37,891.63	56,287.14	138,753.02
Houston, TX ²	16,923.38	27,146.06	37,832.33	58,277.68	148,830.12
Miami, FL ²	17,636.39	26,057.51	35,154.53	51,996.78	138,183.82
Nashville, TN	21,324.36	28,739.93	42,356.34	57,187.48	158,217.79
New York, NY ²	38,883.99	57,789.12	77,689.68	115,499.95	229,557.91
Portland, OR ²	16,470.57	23,804.51	31,663.78	48,106.65	120,954.16
San Francisco, CA ²	50,722.53	70,500.19	101,978.28	140,030.08	299,259.17
Seattle, WA	14,386.46	25,552.81	28,802.70	51,007.71	143,712.90
AVERACE	24 475 22	22.015.10	42.940.47	45 575 O/	140 222 57
AVERAGE	21,475.08	32,915.10	42,840.46	65,575.26	169,232.56

¹⁾ Supply voltage of 25 kV, customer-owned transformer.

These bills have been estimated by Hydro-Québec and may differ from actual bills.
 Bills corresponding to consumption levels of 500 kW or more have been estimated by Hydro-Québec based on the applicable general rate.
 Newfoundland Power rates.

MEDIUM-POWER CUSTOMERS

Average Prices on April 1, 2023

(in ¢/kWh)1

Power demand	500 kW	500 kW	1,000 kW	1,000 kW	2,500 kW ²
Consumption	100,000 kWh	200,000 kWh	200,000 kWh	400,000 kWh	1,170,000 kWh
Load factor	28%	56%	28%	56%	65%
Owner all the Old to					
Canadian Cities					
Montréal, QC	13.50	9.60	13.50	8.92	7.57
Calgary, AB	32.24	26.88	31.86	26.69	24.68
Charlottetown, PE ³	19.20	15.80	19.16	15.79	15.29
Edmonton, AB ⁴	32.89	27.93	31.86	27.41	26.50
Halifax, NS	19.09	14.81	19.09	14.81	13.65
Moncton, NB	16.24	13.29	16.24	13.29	12.86
Ottawa, ON	16.29	13.11	16.19	13.06	13.06
Regina, SK	18.55	12.89	18.66	12.94	11.10
St. John's, NL ⁵	12.91	10.62	12.30	10.28	9.72
Toronto, ON ³	18.06	14.56	17.84	14.40	13.52
Vancouver, BC	12.23	9.15	12.23	9.14	8.51
Winnipeg, MB	11.14	7.82	11.01	7.75	6.53
American Cities					
Boston, MA	40.55	31.28	40.44	31.23	28.01
Chicago, IL	14.26	10.39	14.17	10.35	9.47
Detroit, MI ³	18.96	14.14	18.95	14.07	11.86
Houston, TX ³	16.92	13.57	18.92	14.57	12.72
Miami, FL³	17.64	13.03	17.58	13.00	11.81
Nashville, TN	21.32	14.37	21.18	14.30	13.52
New York, NY ³	38.88	28.89	38.84	28.87	19.62
Portland, OR ³	16.47	11.90	15.83	12.03	10.34
San Francisco, CA ³	50.72	35.25	50.99	35.01	25.58
Seattle, WA	14.39	12.78	14.40	12.75	12.28
AVERAGE	21.48	16.46	21.42	16.39	14.46
AVERAGE	Z 1.40	10.40	21.42	10.39	14.40

In Canadian currency.
 Supply voltage of 25 kV, customer-owned transformer.
 These bills have been estimated by Hydro-Québec and may differ from actual bills.
 Bills corresponding to consumption levels of 500 kW or more have been estimated by Hydro-Québec based on the applicable general rate.
 Newfoundland Power rates.

MEDIUM-POWER CUSTOMERS

Comparative Index on April 1, 2023

(Hydro-Québec = 100)

Power demand	500 kW	500 kW	1,000 kW	1,000 kW	2,500 kW ¹
Consumption	100,000 kWh	200,000 kWh	200,000 kWh	400,000 kWh	1,170,000 kWh
Load factor	28%	56%	28%	56%	65%
Canadian Cities					
Montréal, QC	100	100	100	100	100
Calgary, AB	239	280	236	299	326
Charlottetown, PE ²	142	165	142	177	202
Edmonton, AB ³	244	291	236	307	350
Halifax, NS	141	154	141	166	180
Moncton, NB	120	138	120	149	170
Ottawa, ON	121	137	120	146	172
Regina, SK	137	134	138	145	147
St. John's, NL ⁴	96	111	91	115	128
Toronto, ON ²	134	152	132	161	179
Vancouver, BC	91	95	91	103	112
Winnipeg, MB	83	81	82	87	86
American Cities					
Boston, MA	300	326	300	350	370
Chicago, IL	106	108	105	116	125
Detroit, MI ²	140	147	140	158	157
Houston, TX ²	125	141	140	163	168
Miami, FL ²	131	136	130	146	156
Nashville, TN	158	150	157	160	179
New York, NY ²	288	301	288	324	259
Portland, OR ²	122	124	117	135	137
San Francisco, CA ²	376	367	378	393	338
Seattle, WA	107	133	107	143	162
		. 30	. • •		. 52
AVERAGE	159	171	159	184	191

¹⁾ Supply voltage of 25 kV, customer-owned transformer.

These bills have been estimated by Hydro-Québec and may differ from actual bills.
 Bills corresponding to consumption levels of 500 kW or more have been estimated by Hydro-Québec based on the applicable general rate.
 Newfoundland Power rates.



Detailed Results
Large-Power Customers

Monthly Bills

Average Prices

Comparative Index

LARGE-POWER CUSTOMERS

Monthly Bills on April 1, 2023 (in C\$)

Power demand Consumption Voltage ¹ Load factor	5,000 kW 2,340,000 kWh 25 kV 65%	5,000 kW 3,060,000 kWh 25 kV 85%	10,000 kW 5,760,000 kWh 120 kV 80%	30,000 kW 17,520,000 kWh 120 kV 81%	50,000 kW 23,400,000 kWh 120 kV 65%	50,000 kW 30,600,000 kWh 120 kV 85%
Canadian Cities						
Montréal, QC	144,677.65	169,899.25	309,049.70	935,556.30	1,356,086.50	1,608,302.50
Calgary, AB	572,819.71	727,269.31	1,376,458.90	4,179,163.35	5,720,529.35	7,265,025.42
Charlottetown, PE ²	255,020.00	311,180.00	594,280.00	1,801,560.00	2,550,200.00	3,111,800.00
Edmonton, AB ³	617,091.23	784,033.88	1,349,662.96	4,083,453.09	5,586,728.15	7,086,820.07
Halifax, NS	299,476.66	371,217.46	706,564.53	2,143,619.78	2,994,791.83	3,712,199.83
Moncton, NB	227,335.25	269,721.65	493,480.00	1,494,360.00	2,154,200.00	2,571,800.00
Ottawa, ON	261,976.72	317,974.46	592,718.48	1,766,358.23	2,482,683.10	3,042,660.49
Regina, SK	247,802.88	292,824.48	477,397.99	1,429,858.04	2,028,048.10	2,461,848.10
St. John's, NL ⁴	224,565.60	284,067.48	532,289.08	1,358,908.80	1,921,546.00	2,347,714.00
Toronto, ON ²	254,084.47	271,742.09	530,064.51	1,586,904.37	2,499,540.30	2,676,116.54
Vancouver, BC	199,171.63	242,140.64	384,882.58	1,166,880.94	1,649,378.57	2,016,114.17
Winnipeg, MB	150,038.85	180,415.65	294,392.96	892,224.64	1,268,615.52	1,539,767.52
American Cities						
Boston, MA	654,865.09	805,395.59	1,299,857.57	3,946,436.44	5,420,491.80	6,856,234.88
Chicago, IL	220,635.43	265,328.70	389,042.25	1,175,140.16	1,597,795.01	2,044,727.72
Detroit, MI ²	276,837.62	327,115.72	601,022.20	1,818,250.47	2,630,721.10	3,126,342.70
Houston, TX ²	294,355.85	367,612.77	634,093.59	1,923,796.55	2,620,062.30	3,346,720.10
Miami, FL²	276,025.13	333,541.92	555,156.93	1,676,795.20	2,373,196.17	2,893,894.91
Nashville, TN	312,224.51	366,603.44	461,350.78	1,352,159.24	2,030,708.17	2,510,345.40
New York, NY ²	458,921.83	553,011.14	1,058,783.63	3,207,326.01	4,587,472.41	5,528,365.44
Portland, OR ²	236,708.38	290,630.95	530,810.14	1,603,430.87	2,251,988.62	2,771,249.41
San Francisco, CA ²	589,740.05	709,477.74	1,351,094.44	4,077,211.46	5,825,470.69	7,022,847.58
Seattle, WA	287,149.57	366,666.34	640,762.71	1,940,997.66	2,645,783.32	3,372,915.80
AVERAGE	320,978.37	391,266.85	689,237.09	2,070,926.89	2,918,001.68	3,586,991.48

¹⁾ Customer-owned transformer.

 ²⁾ These bills have been estimated by Hydro-Québec and may differ from actual bills.
 3) Bills corresponding to consumption levels of 500 kW or more have been estimated by Hydro-Québec based on the applicable general rate.
 4) Newfoundland and Labrador Hydro rates for customers with a power demand of 30,000 kW or more; Newfoundland Power rates for all other customer categories.

LARGE-POWER CUSTOMERS

Average Prices on April 1, 2023 (in ¢/kWh)1

Power demand Consumption Voltage ² Load factor	5,000 kW 2,340,000 kWh 25 kV 65%	5,000 kW 3,060,000 kWh 25 kV 85%	10,000 kW 5,760,000 kWh 120 kV 80%	30,000 kW 17,520,000 kWh 120 kV 81%	50,000 kW 23,400,000 kWh 120 kV 65%	50,000 kW 30,600,000 kWh 120 kV 85%
Canadian Cities						
Montréal, QC	6.18	5.55	5.37	5.34	5.80	5.26
Calgary, AB	24.48	23.77	23.90	23.85	24.45	23.74
Charlottetown, PE ³	10.90	10.17	10.32	10.28	10.90	10.17
Edmonton, AB ⁴	26.37	25.62	23.43	23.31	23.87	23.16
Halifax, NS	12.80	12.13	12.27	12.24	12.80	12.13
Moncton, NB	9.72	8.81	8.57	8.53	9.21	8.40
Ottawa, ON	11.20	10.39	10.29	10.08	10.61	9.94
Regina, SK	10.59	9.57	8.29	8.16	8.67	8.05
St. John's, NL ⁵	9.60	9.28	9.24	7.76	8.21	7.67
Toronto, ON ³	10.86	8.88	9.20	9.06	10.68	8.75
Vancouver, BC	8.51	7.91	6.68	6.66	7.05	6.59
Winnipeg, MB	6.41	5.90	5.11	5.09	5.42	5.03
American Cities						
Boston, MA	27.99	26.32	22.57	22.53	23.16	22.41
Chicago, IL	9.43	8.67	6.75	6.71	6.83	6.68
Detroit, MI ³	11.83	10.69	10.43	10.38	11.24	10.22
Houston, TX ³	12.58	12.01	11.01	10.98	11.20	10.94
Miami, FL³	11.80	10.90	9.64	9.57	10.14	9.46
Nashville, TN	13.34	11.98	8.01	7.72	8.68	8.20
New York, NY ³	19.61	18.07	18.38	18.31	19.60	18.07
Portland, OR ³	10.12	9.50	9.22	9.15	9.62	9.06
San Francisco, CA ³	25.20	23.19	23.46	23.27	24.90	22.95
Seattle, WA	12.27	11.98	11.12	11.08	11.31	11.02
AVERAGE	13.72	12.79	11.97	11.82	12.47	11.72

In Canadian currency.
 Customer-owned transformer.

³⁾ These bills have been estimated by Hydro-Québec and may differ from actual bills.

⁴⁾ Bills corresponding to consumption levels of 500 kW or more have been estimated by Hydro-Québec based on the applicable general rate.

⁵⁾ Newfoundland and Labrador Hydro rates for customers with a power demand of 30,000 kW or more; Newfoundland Power rates for all other customer categories.

LARGE-POWER CUSTOMERS

Comparative Index on April 1, 2023

(Hydro-Québec = 100)

Power demand Consumption Voltage ¹ Load factor	5,000 kW 2,340,000 kWh 25 kV 65%	5,000 kW 3,060,000 kWh 25 kV 85%	10,000 kW 5,760,000 kWh 120 kV 80%	30,000 kW 17,520,000 kWh 120 kV 81%	50,000 kW 23,400,000 kWh 120 kV 65%	50,000 kW 30,600,000 kWh 120 kV 85%
Canadian Cities						
Montréal, QC	100	100	100	100	100	100
Calgary, AB	396	428	445	447	422	452
Charlottetown, PE ²	176	183	192	193	188	193
Edmonton, AB ³	427	461	437	436	412	441
Halifax, NS	207	218	229	229	221	231
Moncton, NB	157	159	160	160	159	160
Ottawa, ON	181	187	192	189	183	189
Regina, SK	171	172	154	153	150	153
St. John's, NL ⁴	155	167	172	145	142	146
Toronto, ON ²	176	160	172	170	184	166
Vancouver, BC	138	143	125	125	122	125
Winnipeg, MB	104	106	95	95	94	96
American Cities						
Boston, MA	453	474	421	422	400	426
Chicago, IL	153	156	126	126	118	127
Detroit, MI ²	191	193	194	194	194	194
Houston, TX ²	203	216	205	206	193	208
Miami, FL²	191	196	180	179	175	180
Nashville, TN	216	216	149	145	150	156
New York, NY ²	317	325	343	343	338	344
Portland, OR ²	164	171	172	171	166	172
San Francisco, CA ²	408	418	437	436	430	437
Seattle, WA	198	216	207	207	195	210
AVERAGE	222	230	223	221	215	223

¹⁾ Customer-owned transformer.

 ²⁾ These bills have been estimated by Hydro-Québec and may differ from actual bills.
 3) Bills corresponding to consumption levels of 500 kW or more have been estimated by Hydro-Québec based on the applicable general rate.
 4) Newfoundland and Labrador Hydro rates for customers with a power demand of 30,000 kW or more; Newfoundland Power rates for all other customer categories.



Appendix Rate Adjustments

Across-the-Board Adjustments
Adjustments by

Customer Category

RATE ADJUSTMENTS

Across-the-Board Adjustments

	Before April 2022		Between Apri and Apri	•	
	Year	%	Date	%	Comments
Canadian Utilities					
Hydro-Québec, QC	2022	2.60	April 1, 2023	3.00	Applicable to residential customers
ENMAX, AB	2022	-1.97	January 1, 2023	7.53	Average of distribution (9.26%) and transmission (5.80%) components
Maritime Electric, PE	2022	2.00	March 1, 2023	_	
EPCOR, AB	2022	_	_	_	
Nova Scotia Power, NS	2022	n.a.	February 2, 2023	6.90	
NB Power, NB	2022	2.00	April 1, 2023	5.61	Rate increase of 5.70% and variance account credit of -0.09%
Hydro Ottawa, ON	2022	n.a.	May 1, 2022	n.a.	
			November 1, 2022	n.a.	
			January 1, 2023	n.a.	
SaskPower, SK	2022	n.a.	September 1, 2022	4.00	
			April 1, 2023	4.00	
Newfoundland Power, NL ¹	2022	-1.10	July 1, 2022	-0.30	
Newfoundland and Labrador Hydro, NL ¹	2022	12.70	July 1, 2022	n.a.	
			January 1, 2023	n.a.	
Toronto Hydro, ON	2022	n.a.	January 1, 2023	n.a.	
BC Hydro, BC	2022	0.62	April 1, 2023	0.97	
Manitoba Hydro, MB	2022	3.60		_	

Data concerning American utilities not available. n.a.: Not available.

¹⁾ Newfoundland and Labrador Hydro rates for customers with a power demand of 30,000 kW or more; Newfoundland Power rates for all other customer categories.

RATE ADJUSTMENTS (Between April 1, 2022, and April 1, 2023)

Adjustments by Customer Category

	Date	Residential Customers	General-Rate Customers	Industrial Customers	Average %
		%	<u>%</u>	%	
Canadian Utilities					
Hydro-Québec, QC	April 1, 2023	3.00	6.50 ¹	4.20	4.75
			6.50 ²		
			6.50 ³		
ENMAX, AB	January 1, 2023	8.924	0.38 ¹	n.a.	7.53
			10.77 ²		
			8.79 ³		
Maritime Electric, PE	_	-	_	_	_
EPCOR, AB	_	_	_	_	_
Nova Scotia Power, NS	February 2, 2023	6.90	8.40 ¹	8.10⁵	6.90
			7.10 ²	7.906	
			8.30 ³		
NB Power, NB	April 1, 2023	5.61	5.61	5.61	5.61
Hydro Ottawa, ON	May 1, 2022	-0.12	-0.04	_	n.a.
	November 1, 2022	-0.78	-1.07	_	n.a.
	January 1, 2023	4.88	5.01	0.66	n.a.
SaskPower, SK	September 1, 2022	n.a.	n.a.	n.a.	4.00
	April 1, 2023	n.a.	n.a.	n.a.	4.00
Newfoundland Power, NL ⁷	July 1, 2022	-0.20	-0.30	-0.40	-0.30
Newfoundland and	July 1, 2022	_	_	0.01	_
Labrador Hydro, NL ⁷	January 1, 2023	_	_	15.40	_
Toronto Hydro, ON	January 1, 2023	n.a.	n.a.	n.a.	n.a.
BC Hydro, BC	April 1, 2023	0.97	0.97	0.97	0.97
Manitoba Hydro, MB	-	_	_	_	_

Data concerning American utilities not available.

n.a.: Not available.

Note: Because of adjustment clauses (see list in Appendix B), electricity bills issued by a utility may vary, even though base rates have not changed.

¹⁾ Small-power customers.

²⁾ Medium-power customers.

³⁾ Large-power customers.

⁴⁾ Average of distribution and transmission components.

⁵⁾ Small industrial companies.

⁶⁾ Midsize industrial companies.

⁷⁾ Newfoundland and Labrador Hydro rates for customers with a power demand of 30,000 kW or more; Newfoundland Power rates for all other customer categories.

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Appendix
Time-of-Use Rates
Adjustment Clauses

TIME-OF-USE RATES

The utilities listed below apply time-of-use rates for different consumption levels. For the purposes of this study, an annual average has been calculated for utilities whose rates vary according to the season or time of day (or both). In the case of utilities whose supply costs are determined by the market, the average for the month of March 2023 was used.

CenterPoint Energy, TX All levels

Commonwealth Edison, IL All levels

Consolidated Edison, NY All levels

DTE Electric, MI 500-50,000 kW

ENMAX, AB All levels

EPCOR, AB All levels

Eversource Energy, MA General-rate customers: All levels

Hydro Ottawa, ON All levels

Nashville Electric Service, TN All levels

Newfoundland Power, NL Residential customers

General-rate customers: 14-10,000 kW

Pacific Gas and Electric, CA All levels

PacifiCorp, OR 1,000-50,000 kW

Seattle City Light, WA Residential customers

General-rate customers: 1,000-50,000 kW

Toronto Hydro, ON All levels

ADJUSTMENT CLAUSES

Below is a list of utilities whose rates include adjustment clauses that may cause fluctuations in the price of electricity even though base rates have not been adjusted.

BC Hydro, BC Deferral Account Rate Rider

CenterPoint Energy, TX Accumulated Deferred Federal Income Tax Credit

Distribution Cost Recovery Factor Energy Efficiency Cost Recovery Factor Nuclear Decommissioning Charge Rate Case Expenses Surcharge

Transition Charges

Transmission Cost Recovery Factor
Unprotected Excess Deferred Income Tax

Commonwealth Edison, IL Carbon-Free Resource Adjustment

Energy Efficiency Pricing & Performance Energy Transition Assistance Charge Environmental Cost Recovery Adjustment Excess Deferred Income Tax Adjustment

Franchise Cost Additions Renewable Energy Adjustment

Renewable Energy Distributed Generation Rebate

Retail Customer Assessments Zero Emission Adjustment

Consolidated Edison, NY Adjustment Factors – MSC

Billing and Payment Processing Charge Clean Energy Standard Delivery Surcharge Clean Energy Standard Supply Surcharge

Delivery Revenue Surcharge

Dynamic Load Management Surcharge

Market Supply Charge Merchant Function Charge Monthly Adjustment Clause

Revenue Decoupling Mechanism Adjustment

System Benefits Charge

Tax Sur-Credit

Value of Distributed Energy Resources Cost Recovery

DTE Electric, MI Energy Waste Reduction Surcharge

Low Income Energy Assistance Fund Factor

Nuclear Surcharge

Power Supply Cost Recovery Clause Renewable Energy Plan Surcharge

ENMAX, AB Balancing Pool Allocation Rider

Local Access Fee

Regulated Rate Option Rider

Transmission Access Charge Deferral Account Rider Adjustment

EPCOR, AB Balancing Pool Allocation Rider

DAS True-Up Rider Deferral Rate Local Access Fee SAS True-Up Rider

Transmission Charge Deferral Account True-Up Rider

Eversource Energy, MA Advanced Metering Infrastructure Factor

Attorney General Consultant Expense

Basic Service Cost Adjustment Electronic Payment Recovery Factor

Energy Efficiency Charge

Farm Discount

Grid Modernization Factor

Long Term Renewable Contract Adjustment

Low Income Discount Miscellaneous Charges

Net Metering Recovery Surcharge Pension Adjustment Mechanism

Performance Based Revenue Adjustment

Renewable Energy Charge

Residential Assistance Adjustment Clause Revenue Decoupling Adjustment Mechanism Solar Expansion Cost Recovery Mechanism Solar Massachusetts Renewable Target

Solar Program Cost Adjustment Storm Cost Recovery Adjustment Storm Reserve Adjustment Mechanism

Transition Cost Adjustment

Transmission Service Cost Adjustment

Vegetation Management 2017 Tax Act Credit

Florida Power and Light, FL Capacity Payment Recovery Clause

Consolidated Interim Storm Restoration Recovery Surcharge

Energy Conservation Cost Recovery Clause Environmental Cost Recovery Clause

Fuel Cost and Purchase Power Recovery Clause

Storm Protection Charge Transition Rider Credit

Hydro Ottawa, ON Capacity Based Recovery Charge

Disposition of Deferral/Variance Accounts
Disposition of Global Adjustment Account (2023)
Lost Revenue Adjustment Mechanism Recovery

Rate Rider for Disposition of Class B

Rural or Remote Electricity Rate Protection Charge

Smart Metering Entity Charge

Maritime Electric, PE Energy Cost Adjustment Mechanism

Nashville Electric Service, TN COVID-19 Relief Credit

Small Manufacturing Credit
Tax Exemption Status

Newfoundland and Labrador Hydro, NL CDM Cost Recovery Adjustment Rider

Rate Stabilization Plan Adjustment Rider

Nova Scotia Power, NS Fuel Adjustment Mechanism (AA/BA)

Pacific Gas and Electric, CA Bundled Power Charge Indifference Adjustment

California Climate Credit

Competition Transition Charges Energy Cost Recovery Amount New System Generation Charge Nuclear Decommissioning Public Purpose Programs Recovery Bond Charge/Credit

Reliability Services

Transmission Rate Adjustments

Wildfire Fund Charge Wildfire Hardening Charge

PacifiCorp, OR Adjustment Associated with the Pacific Northwest Electric

Power Planning and Conservation Act

Base Supply Service

Community Solar Start-Up Cost Recovery Adjustment Deer Creek Mine Closure Deferred Amounts Adjustment

Deferred Accounting Adjustment

Independent Evaluator Cost Adjustment

Intervenor Funding Adjustment

Net Power Costs, Cost-Based Supply Service Oregon Solar Incentive Program Deferral Power Cost Adjustment Mechanism

Property Sales Balancing Account Adjustment

Public Purpose Charge Rate Mitigation Adjustment Renewable Adjustment Clause

Renewable Resource Deferral Adjustment Replaced Meter Deferred Amounts Adjustment

System Benefits Charge

TAM Adjustment for Other Revenues

Wildfire Mitigation and Vegetation Management

Cost Recovery Adjustment

Wildfire Protection Plan Cost Recovery Adjustment

Toronto Hydro, ON Capacity Based Recovery (CBR)

Disposition of Accounts Receivable Credits
Disposition of Derecognition Variance Account

Disposition of Expansion Deposits
Disposition of Stranded Meter Assets

Disposition of Wireless Pole Attachment Revenue Recovery of Monthly Billing Transition Costs

Rural or Remote Electricity Rate Protection Charge

Smart Metering Entity Charge



Appendix Applicable Taxes

Residential Customers
General-Rate Customers
Industrial Customers

TAXES APPLICABLE TO RESIDENTIAL CUSTOMERS

	Тах	% (or other)	Applicable
Canadian Cities			
Montréal, QC	Goods and services tax	5	To base amount of bill
	Québec sales tax	9.975	To base amount of bill
Calgary, AB	Goods and services tax	5	To base amount of bill
Charlottetown, PE	Harmonized sales tax	15	To base amount of bill
Edmonton, AB	Goods and services tax	5	To base amount of bill
Halifax, NS	Harmonized sales tax	5	To base amount of bill
Moncton, NB	Harmonized sales tax	15	To base amount of bill
Ottawa, ON	Harmonized sales tax	13	To base amount of bill
Regina, SK	Municipal tax	10	To base amount of bill
	Carbon levy	¢/kWh	To energy consumption
	Goods and services tax	5	To base amount of bill (excluding municipal surcharge)
St. John's, NL	Harmonized sales tax	15	To base amount of bill
Toronto, ON	Harmonized sales tax	13	To base amount of bill
Vancouver, BC	Regional transit levy	\$1.90	Monthly
	Goods and services tax	5	To base amount of bill + regional transit levy
Winnipeg, MB	Provincial sales tax	1.4	To base amount of bill (customers with electric heating)
		7	To base amount of bill (customers with heating other than electric)
	Municipal tax	0.5	To base amount of bill (customers with electric heating)
		2.5	To base amount of bill (customers with heating other than electric)
	Goods and services tax	5	To base amount of bill + municipal tax
American Cities			
Boston, MA	None		
Chicago, IL	State tax	¢/kWh	As a function of energy consumption
	Municipal tax	¢/kWh	As a function of energy consumption
	State tax on electricity distribution	\$/kWh	As a function of monthly consumption
Detroit, MI	State sales tax	4	To base amount of bill
	City of Detroit utility users' tax	5	To base amount of bill
Houston, TX	Municipal tax	1	To base amount of bill
Miami, FL	Gross receipts tax/ Regulatory assessment fee	2.6381	To base amount of bill
	Franchise fee	5.473	To base amount of bill + gross receipts tax
	Municipal tax	10	To a portion of base amount of bill
Nashville, TN	None	-	
New York, NY	Commodity gross receipts tax	2.4066	To commodity component
	Delivery gross receipts tax	4.9097	To other components
	Sales tax	4.5	To base amount of bill + gross receipts tax
Portland, OR	Multnomah County business income tax	-0.02	To a portion of base amount of bill
	City of Portland franchise tax	1.5	To a portion of base amount of bill
San Francisco, CA	Energy Commission tax	¢/kWh	To energy consumption
Seattle, WA	State utility tax	3.8734	Tax included in rate schedule prices
	City of Seattle occupation tax	6	Tax included in rate schedule prices

TAXES APPLICABLE TO GENERAL-RATE CUSTOMERS

	Тах	% (or other)	Applicable
Canadian Cities		,	
Montréal, QC	Goods and services tax	5	To base amount of bill (tax refundable)
	Québec sales tax	9.975	To base amount of bill (tax refundable ¹)
Calgary, AB	Goods and services tax	5	To base amount of bill
Charlottetown, PE	Harmonized sales tax	15	To base amount of bill (tax refundable)
Edmonton, AB	Goods and services tax	5	To base amount of bill
Halifax, NS	Harmonized sales tax	15	To base amount of bill (tax refundable)
Moncton, NB	Harmonized sales tax	15	To base amount of bill (tax refundable)
Ottawa, ON	Harmonized sales tax	13	To base amount of bill
Regina, SK	Municipal tax	10	To base amount of bill
	Provincial sales tax	6	To base amount of bill + municipal tax
	Carbon levy	¢/kWh	To energy consumption
	Goods and services tax	5	To base amount of bill (excluding municipal surcharge)
St. John's, NL	Harmonized sales tax	15	To base amount of bill (tax refundable)
Toronto, ON	Harmonized sales tax	13	To base amount of bill (tax refundable)
Vancouver, BC	Goods and services tax	5	To base amount of bill
Winnipeg, MB	Provincial sales tax	1.4	To base amount of bill
			(mining and manufacturing companies)
		7	To base amount of bill
			(industries other than mining and manufacturing)
	Municipal tax	1	To base amount of bill
			(customers with electric heating)
		5	To base amount of bill
	Coods and somiless tay	5	(customers with heating other than electric)
	Goods and services tax	5	To base amount of bill + municipal tax (tax refundable)
American Cities			
Boston, MA	State sales tax	6.25	To a portion of base amount of bill
Chicago, IL	State tax	¢/kWh	As a function of energy consumption
	Municipal tax	¢/kWh	As a function of energy consumption
	State tax on electricity distribution	\$/kWh	As a function of monthly consumption
Detroit, MI	State sales tax	6	To base amount of bill
	City of Detroit utility users' tax	5	To base amount of bill
Houston, TX	State tax	6.25	To base amount of bill
	Municipal tax	1	To base amount of bill
	Transit tax	1	To base amount of bill

¹⁾ Business customers with revenue below \$10 million and all customers in the manufacturing sector are entitled to a refund of this tax.

TAXES APPLICABLE TO GENERAL-RATE CUSTOMERS (cont'd)

	Тах	% (or other)	Applicable
Miami, FL	Gross receipts tax/ Regulatory assessment fee	2.6381	To base amount of bill
	Franchise fee	5.473	To base amount of bill + gross receipts tax
	Municipal tax	10	To a portion of base amount of bill
	State sales tax	6.95	To base amount of bill + gross receipts tax + franchise fee
	Local tax	1	To base amount of bill + gross receipts tax + franchise fee
Nashville, TN	State sales tax	7	To base amount of bill
New York, NY	Commodity gross receipts tax	2.4066	To commodity component
	Delivery gross receipts tax	2.4073	To other components
	Sales tax	8.875	To base amount of bill + gross receipts tax
Portland, OR	Multnomah County business income tax	-0.02	To a portion of base amount of bill
	City of Portland franchise tax	1.5	To a portion of base amount of bill
San Francisco, CA	Energy Commission tax	¢/kWh	To energy consumption
	San Francisco utility users' tax	5	To base amount of bill
Seattle, WA	State utility tax	3.8734	Tax included in rate schedule prices
	City of Seattle occupation tax	6	Tax included in rate schedule prices

TAXES APPLICABLE TO INDUSTRIAL CUSTOMERS

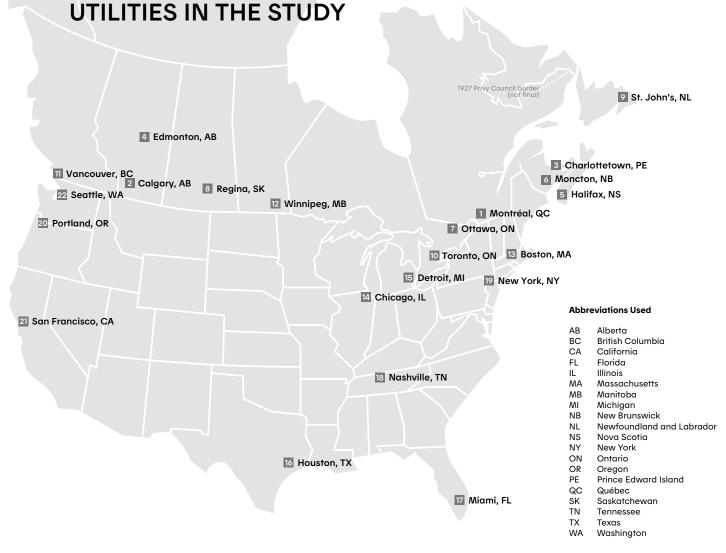
	Тах	% (or other)	Applicable
Canadian Cities			
Montréal, QC	Goods and services tax	5	To base amount of bill (tax refundable)
	Québec sales tax	9.975	To base amount of bill (tax refundable ¹)
Calgary, AB	Goods and services tax	5	To base amount of bill
Charlottetown, PE	Harmonized sales tax	15	To base amount of bill (tax refundable)
Edmonton, AB	Goods and services tax	5	To base amount of bill
Halifax, NS	Harmonized sales tax	15	To base amount of bill (tax refundable)
Moncton, NB	Harmonized sales tax	15	To base amount of bill (tax refundable)
Ottawa, ON	Harmonized sales tax	13	To base amount of bill
Regina, SK	Municipal tax	10	To base amount of bill
_	Provincial sales tax	6	To base amount of bill + municipal tax
	Carbon levy	¢/kWh	To energy consumption
	Goods and services tax	5	To base amount of bill (excluding municipal surcharge
St. John's, NL	Harmonized sales tax	15	To base amount of bill (tax refundable)
Toronto, ON	Harmonized sales tax	13	To base amount of bill (tax refundable)
Vancouver, BC	Goods and services tax	5	To base amount of bill
Winnipeg, MB	Provincial sales tax	1.4	To base amount of bill (mining and manufacturing companies)
		7	To base amount of bill (industries other than mining and manufacturing)
	Municipal tax	1	To base amount of bill (customers with electric heating)
		5	To base amount of bill (customers with heating other than electric)
	Goods and services tax	5	To base amount of bill + municipal tax (tax refundable)
American Cities			
Boston, MA	State sales tax	6.25	To a portion of base amount of bill
Chicago, IL	State tax	¢/kWh	As a function of energy consumption
	Municipal tax	¢/kWh	As a function of energy consumption
	State tax on electricity distribution	\$/kWh	As a function of monthly consumption
Detroit, MI	State sales tax	6	To base amount of bill
	City of Detroit utility users' tax	5	To base amount of bill
Houston, TX	State tax	6.25	To base amount of bill
	Municipal tax	1	To base amount of bill
	Transit tax	1	To base amount of bill

¹⁾ Business customers with revenue below \$10 million and all customers in the manufacturing sector are entitled to a refund of this tax.

TAXES APPLICABLE TO INDUSTRIAL CUSTOMERS (cont'd)

	Тах	% (or other)	Applicable
Miami, FL	Gross receipts tax/ Regulatory assessment fee	2.6381	To base amount of bill
	Franchise fee	5.473	To base amount of bill + gross receipts tax
	Municipal tax	10	To a portion of base amount of bill
	State sales tax	6.95	To base amount of bill + gross receipts tax + franchise fee
	Local tax	1	To base amount of bill + gross receipts tax + franchise fee
Nashville, TN	State sales tax	7	To base amount of bill
New York, NY	Commodity gross receipts tax	2.4066	To commodity component
	Delivery gross receipts tax	2.4073	To other components
	Sales tax	8.875	To base amount of bill + gross receipts tax
Portland, OR	Multnomah County business income tax	-0.02	To a portion of base amount of bill
	City of Portland franchise tax	1.5	To a portion of base amount of bill
San Francisco, CA	Energy Commission tax	¢/kWh	To energy consumption
	San Francisco utility users' tax	5	To base amount of bill
Seattle, WA	State utility tax	3.8734	Tax included in rate schedule prices
	City of Seattle occupation tax	6	Tax included in rate schedule prices

Appendix
Utilities in the Study



CANADIAN UTILITIES

- 1- Hydro-Québec
- 2- ENMAX
- 3- Maritime Electric
- 4- EPCOR
- 5- Nova Scotia Power
- 6- NB Power
- 7- Hydro Ottawa
- 8- SaskPower
- 9- Newfoundland and Labrador Hydro (customers with a power demand of 30,000 kW or more) Newfoundland Power (all other customer categories)
- 10-Toronto Hydro
- 11-BC Hydro
- 12-Manitoba Hydro

AMERICAN UTILITIES

- 13- Eversource Energy
- 14-Commonwealth Edison
- 15-DTE Electric
- 16-CenterPoint Energy
- 17-Florida Power and Light
- 18- Nashville Electric Service
- 19-Consolidated Edison
- 20-PacifiCorp
- 21-Pacific Gas and Electric
- 22-Seattle City Light

CANADIAN UTILITIES

HYDRO-QUÉBEC

Montréal, Québec

Hydro-Québec, a government-owned company, is one of the largest electric utilities in North America. In accordance with the *Act respecting the Régie de l'énergie* [Québec energy board], it provides a maximum of 165 TWh of heritage pool electricity per year to the Québec market and also purchases power on the markets to meet its customers' needs. The average supply cost of heritage pool electricity, set at 2.79¢/kWh in 1998, has been indexed annually on January 1 since 2014 at a rate corresponding to the annual variation in the average overall Consumer Price Index for Québec. The large-power industrial rate (Rate L) is exempt from this indexation.

Pursuant to An Act mainly to cap the indexation rate for Hydro-Québec domestic distribution rate prices and to further regulate the obligation to distribute electricity, the company's distribution rates were increased as follows on April 1, 2023:

- · 3,0% for residential customers;
- 6.5% for all other customers except largepower industrial customers;
- 4.2% for large-power industrial customers (6.5% increase multiplied by an adjustment factor of 0.65 set by the Régie de l'énergie).

Activities: Generation, transmission and distribution

Installed capacity: 37,439 MW

Main sources: Hydropower generating stations and wind power purchases (more than 99% of power supplied is clean and renewable)

Number of accounts: About 4.5 million residential, commercial, institutional and industrial customer accounts, nine municipal systems and one regional cooperative

Distribution regulator: Régie de l'énergie

Wholesale market: Open

Retail market: -

ENMAX

Calgary, Alberta

Activities: Generation, transmission and distribution

Installed capacity: 1,638 MW

Main sources: Natural gas (91%) and wind (9%)

Number of accounts: More than 725,000 Distribution regulator: Alberta Utilities

Commission

Wholesale market: Open

Retail market: Open

MARITIME ELECTRIC

Charlottetown, Prince Edward Island

Activities: Distribution

Installed capacity: 129 MW

Main sources: Purchases from NB Power

and PEI Energy Corporation

Number of accounts: About 86,000

Distribution regulator: Island Regulatory

and Appeals Commission

Wholesale market: -

Retail market: -

EPCOR

Edmonton, Alberta

Activities: Transmission and distribution

Installed capacity: -

Main sources: Market purchases

Number of accounts: About 435,000 customers in

Edmonton

Distribution regulator: Alberta Utilities Commission

Wholesale market: Open

Retail market: Open

NOVA SCOTIA POWER

Halifax, Nova Scotia

Activities: Generation, transmission and distribution

Installed capacity: 2,420 MW

Main sources: Thermal (coal, natural gas, petroleum and petroleum coke), hydropower,

wind and other

Number of accounts: More than 541,000 residential,

commercial and industrial customers

Distribution regulator: Nova Scotia Utility

and Review Board
Wholesale market: -

Retail market: -

NB POWER

Moncton, New Brunswick

Activities: Generation, transmission and distribution

Installed capacity: 3,790 MW

Main sources: Thermal (1,716 MW),

hydropower (889 MW), nuclear (660 MW)

and combustion turbines (525 MW)

Number of accounts: More than 400,000

Distribution regulator: New Brunswick Energy

and Utilities Board
Wholesale market: –

HYDRO OTTAWA

Retail market: -

Ottawa, Ontario

Activities: Generation and distribution

Installed capacity: 131 MW (renewable energy)

Main sources: Purchases from Ontario Power

Generation

Number of accounts: About 359,000

Distribution regulator: Ontario Energy Board

Wholesale market: Open

Retail market: Open, but electricity supply rate

regulated by the Ontario Energy Board

SASKPOWER

Regina, Saskatchewan

Activities: Generation, transmission and distribution

Installed capacity: 5,246 MW

Main sources: Natural gas (41%), coal (26%), hydropower (19%), wind (12%), solar (1%) and

other (1%)

Number of accounts: About 550,000

Distribution regulator: Saskatchewan Rate

Review Panel

Wholesale market: Partially open

Retail market: Partially open

NEWFOUNDLAND AND LABRADOR HYDRO

(customers with a power demand of 30,000 kW or more) St. John's, Newfoundland and Labrador

Activities: Generation, transmission and distribution

Installed capacity: 2,378 MW

Main sources: Hydropower (87%) and thermal (13%)

Number of accounts: More than 38,000 Distribution regulator: Newfoundland and

Labrador Board of Commissioners of Public Utilities

Wholesale market: -

Retail market: -

NEWFOUNDLAND POWER

(all other customer categories)
St. John's, Newfoundland and Labrador

Activities: Generation, transmission and distribution

Installed capacity: 140 MW

Main sources: Purchases from Newfoundland

and Labrador Hydro (93%)

Number of accounts: More than

274,000 customers throughout the island

of Newfoundland

Distribution regulator: Newfoundland and Labrador Board of Commissioners

of Public Utilities

Wholesale market: -

Retail market: -

TORONTO HYDRO

Toronto, Ontario

Activities: Distribution Installed capacity: –

Main sources: Purchases from Ontario

Power Generation

Number of accounts: About 790,000

Distribution regulator: Ontario Energy Board

Wholesale market: Open

Retail market: Open, but electricity supply rate

regulated by the Ontario Energy Board

BC HYDRO

Vancouver, British Columbia

Activities: Generation, transmission and distribution

Installed capacity: About 12,204 MW
Main sources: Hydropower (about 98%)
Number of accounts: Nearly 2.2 million
Distribution regulator: British Columbia

Utilities Commission

Wholesale market: Open

Retail market: -

MANITOBA HYDRO

Winnipeg, Manitoba

Activities: Generation, transmission and distribution

Installed capacity: 5,860 MW

Main sources: Hydropower (about 96%),

natural gas and diesel

Number of accounts: About 609,000 Distribution regulator: Manitoba Public

Utilities Board

Wholesale market: -

Retail market: -

AMERICAN UTILITIES

EVERSOURCE ENERGY

Boston, Massachusetts

Activities: Transmission and distribution

Installed capacity: -

Main sources: Purchases from ISO New England

Number of accounts: Nearly 3.3 million

residential, commercial and industrial customers

in Massachusetts, Connecticut and

New Hampshire

Distribution regulator: Massachusetts Department

of Public Utilities

Wholesale market: Open

Retail market: Open

COMMONWEALTH EDISON (ComEd)

Chicago, Illinois

Activities: Transmission and distribution

Installed capacity: -

Main sources: Purchases from Midcontinent

Independent System Operator

Number of accounts: Nearly 4 million customers

in northern Illinois

Distribution regulator: Illinois Commerce

Commission

Wholesale market: Open

Retail market: Open

DTE ELECTRIC

Detroit, Michigan

Activities: Generation, transmission and distribution

Installed capacity: 11,717 MW

Main sources: Coal, nuclear, natural gas, hydropower and other (wind and solar)

Number of accounts: 2.3 million customers

in southeastern Michigan

Distribution regulator: Michigan Public

Service Commission

Wholesale market: Open Retail market: Partially open

CENTERPOINT ENERGY

Houston, Texas

Activities: Generation, transmission and distribution

Installed capacity: About 1,300 MW in Indiana

Main sources: Purchases from

the Electric Reliability Council of Texas Number of accounts: Nearly 2.9 million

Distribution regulator: Public Utility Commission

of Texas

Wholesale market: Open

Retail market: Open

NASHVILLE ELECTRIC SERVICE Nashville Tennessee

Activities: Distribution Installed capacity: -

Main sources: Purchases from Tennessee

Valley Authority

Number of accounts: More than 430,000

Distribution regulator: Tennessee Valley Authority

Wholesale market: -

Retail market: -

CONSOLIDATED EDISON (ConEd)

New York, New York

Activities: Distribution Installed capacity: -

Main sources: Purchases from New York

Independent System Operator

Number of accounts: About 3.6 million customers in the New York metropolitan area and 0.3 million

customers in Westchester County

Distribution regulator: New York State Public

Service Commission Wholesale market: Open

Retail market: Open

FLORIDA POWER AND LIGHT (FPL)

Miami, Florida

Activities: Generation, transmission and distribution

Installed capacity: Over 30,800 MW

Main sources: Natural gas, nuclear, solar and coal

Number of accounts: More than 5.8 million Distribution regulator: Florida Public Service

Commission

Wholesale market: Open

Retail market: -

PACIFICORP

Portland, Oregon

Activities: Generation, transmission and distribution

Installed capacity: 11,504 MW

Main sources: Natural gas, hydropower, wind,

solar, geothermal, natural gas and coal

Number of accounts: 800,000 customers across three states (Oregon, Washington and California)

Distribution regulator: Public Utility Commission

of Oregon

Wholesale market: Open

Retail market: Partially open

PACIFIC GAS AND ELECTRIC (PG&E)

San Francisco, California

Activities: Generation, transmission and distribution

Installed capacity: 7,832 MW

Main sources: Purchases from California ISO and fuel-fired, hydropower, solar and other

generating stations

Number of accounts: 5.5 million

Distribution regulator: California Public

Utilities Commission

Wholesale market: Open
Retail market: Partially open

SEATTLE CITY LIGHT

Seattle, Washington

Activities: Generation, transmission and distribution

Installed capacity: 2,006.4 MW

Main sources: Hydropower, wind, biogas and other generating stations, agreement

with BC Hydro and purchases from Bonneville Power Administration

Number of accounts: Nearly 480,000 customers

in Seattle and surrounding communities

Distribution regulator: City of Seattle

Wholesale market: Open

Retail market: -

Information sources

Annual reports and websites of the Canadian and American utilities in the study.

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