



2021

Comparison of Electricity Prices in Major North American Cities

Rates in effect April 1, 2021



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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, 2021. 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



Abbreviations Used

AB	Alberta
BC	British Columbia
CA	California
FL	Florida
IL	Illinois
MA	Massachusetts
MB	Manitoba
MI	Michigan
NB	New Brunswick
NL	Newfoundland and Labrador
NS	Nova Scotia
NY	New York
ON	Ontario
OR	Oregon
PE	Prince Edward Island
QC	Québec
SK	Saskatchewan
TN	Tennessee
TX	Texas
WA	Washington

1) For a monthly consumption of 1,000 kWh; rates in effect April 1, 2021.

2) Average prices excluding taxes.

3) In Canadian currency.

MAJOR NORTH AMERICAN CITIES

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



Abbreviations Used

AB	Alberta
BC	British Columbia
CA	California
FL	Florida
IL	Illinois
MA	Massachusetts
MB	Manitoba
MI	Michigan
NB	New Brunswick
NL	Newfoundland and Labrador
NS	Nova Scotia
NY	New York
ON	Ontario
OR	Oregon
PE	Prince Edward Island
QC	Québec
SK	Saskatchewan
TN	Tennessee
TX	Texas
WA	Washington

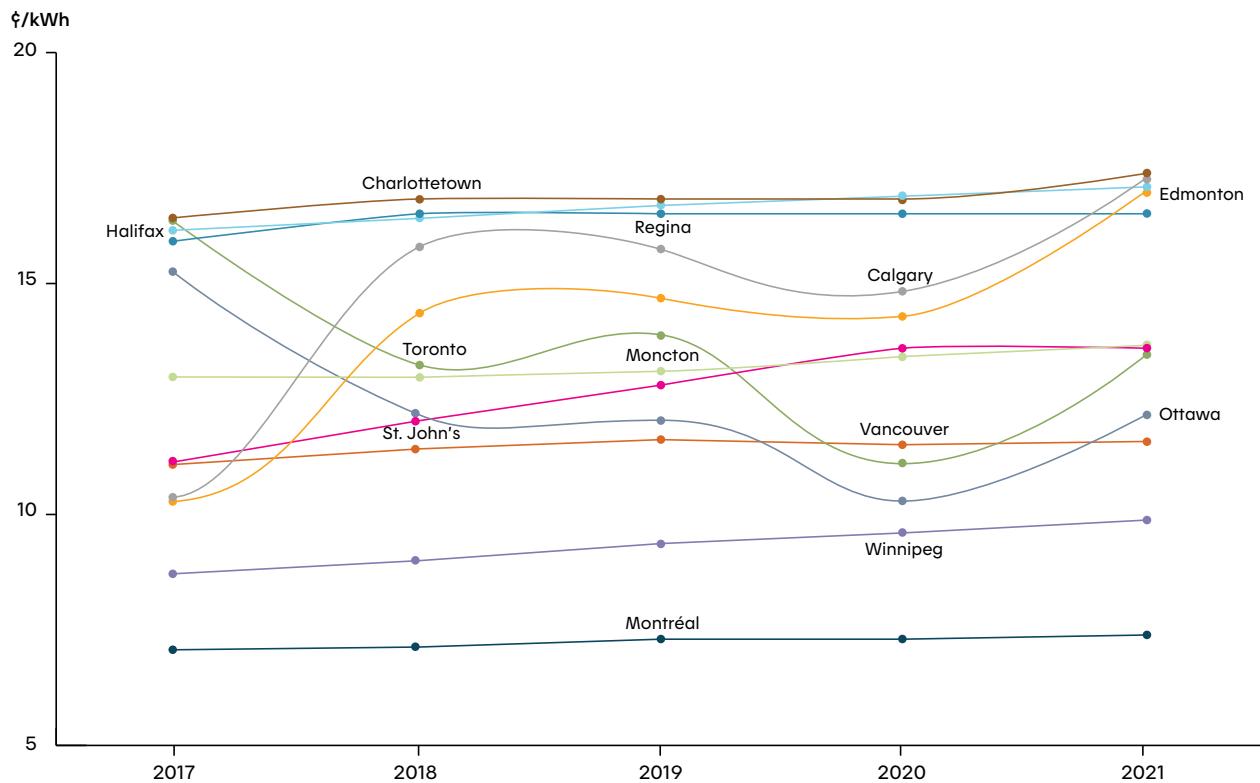
1) For a monthly consumption of 3,060,000 kWh and a power demand of 5,000 kW; rates in effect April 1, 2021.

2) Average prices excluding taxes.

3) In Canadian currency.

MAJOR CANADIAN CITIES

OVERVIEW OF CHANGES IN AVERAGE PRICES FOR RESIDENTIAL CUSTOMERS (IN ¢/kWh) – 2017 TO 2021^{1, 2, 3, 4}



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

	2017	2018	2019	2020	2021
Canadian Cities					
Montréal, QC	7.07	7.13	7.30	7.30	7.39
Calgary, AB	10.45	15.79	15.74	14.83	17.26
Charlottetown, PE	16.42	16.83	16.83	16.83	17.38
Edmonton, AB	10.34	14.35	14.68	14.29	16.99
Halifax, NS	16.15	16.41	16.69	16.89	17.09
Moncton, NB	12.97	12.97	13.10	13.42	13.66
Ottawa, ON	15.21	12.16	12.04	10.29	12.45
Regina, SK	15.94	16.51	16.51	16.51	16.51
St. John's, NL	11.15	12.03	12.80	13.60	13.60
Toronto, ON	16.32	13.24	13.89	11.10	13.43
Vancouver, BC	11.08	11.42	11.62	11.51	11.58
Winnipeg, MB	8.71	9.00	9.37	9.60	9.87

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

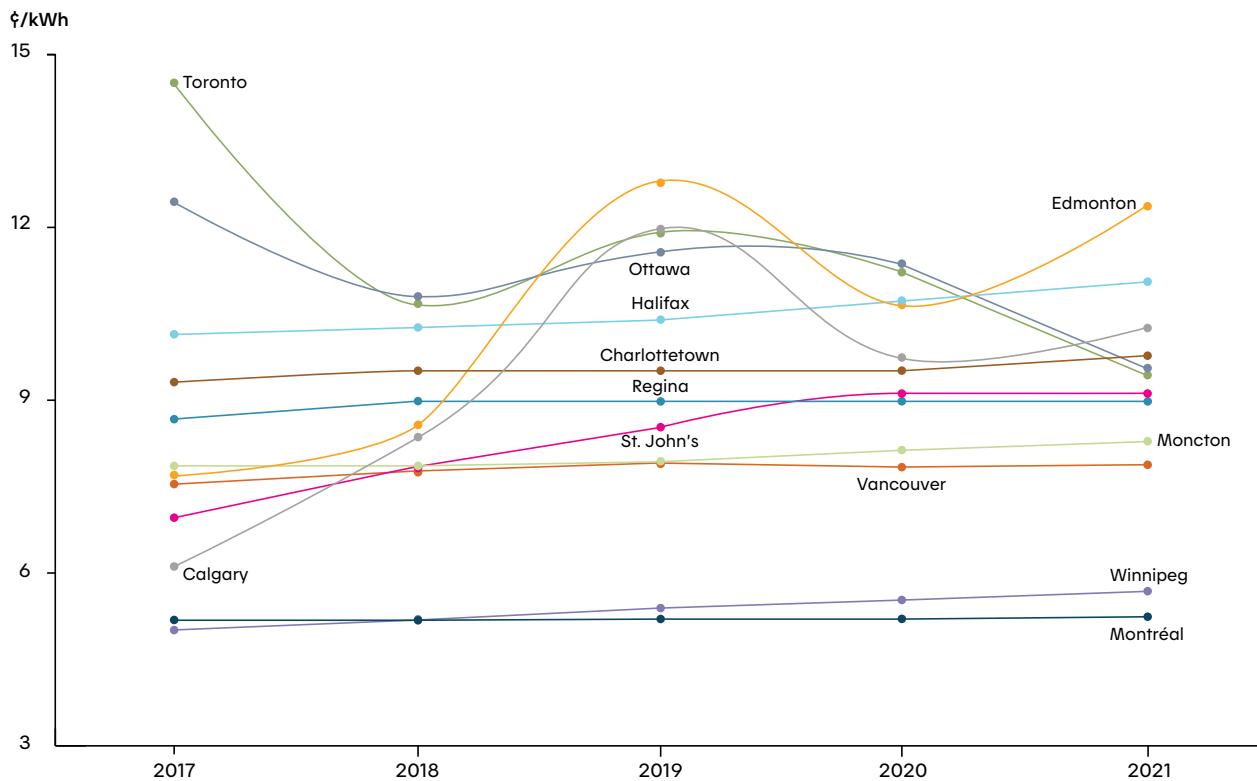
2) In Canadian currency.

3) Data from *Comparison of Electricity Prices in Major North American Cities* publications, Hydro-Québec, 2017–2021.

4) Average prices excluding taxes.

MAJOR CANADIAN CITIES

OVERVIEW OF CHANGES IN AVERAGE PRICES FOR LARGE-POWER CUSTOMERS (IN ¢/kWh) – 2017 TO 2021^{1, 2, 3, 4}



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

Canadian Cities	2017	2018	2019	2020	2021
Montréal, QC	5.18	5.18	5.20	5.20	5.24
Calgary, AB	6.09	8.32	11.97	9.73	10.25
Charlottetown, PE	9.31	9.51	9.51	9.51	9.77
Edmonton, AB	7.68	8.53	12.80	10.64	12.35
Halifax, NS	10.14	10.26	10.39	10.72	11.05
Moncton, NB	7.86	7.86	7.93	8.13	8.28
Ottawa, ON	12.46	10.80	11.57	11.36	9.57
Regina, SK	8.67	8.98	8.98	8.98	8.98
St. John's, NL	6.95	7.84	8.52	9.12	9.12
Toronto, ON	14.55	10.66	11.91	11.23	9.45
Vancouver, BC	7.54	7.77	7.91	7.84	7.88
Winnipeg, MB	5.01	5.18	5.39	5.53	5.68

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, 2017–2021.

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 rates in effect on April 1, 2021. The most recent rate adjustments applied by the Canadian utilities in the study between April 1, 2020, and April 1, 2021, 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, with the exception of territories north of the 53rd parallel, rates and taxes are applied uniformly. 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, 2021.

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, which 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 electricity bills issued by a given distributor may have varied between April 1, 2020, and April 1, 2021, even though base rates remained the same. Appendix B lists the adjustment clauses taken into account when calculating bills. During the COVID-19 pandemic, some utilities offered financial aid to their customers. Adjustment clauses and rate relief measures that were rolled into base rates and applied to certain customer categories have been considered.

TAXES

With the exception of the bills presented in Section 2, taxes are not included in any of the calculations. Appendix C lists taxes applicable on April 1, 2021, by customer category; those which may be partially or fully refundable are indicated.

EXCHANGE RATE

The exchange rate used to convert bills in U.S. dollars into Canadian dollars is \$0.7959 (C\$1 = US\$0.7959), the rate in effect at noon on April 1, 2021. The Canadian dollar had thus appreciated by 13.15% relative to the U.S. dollar on April 1, 2020.

HIGHLIGHTS

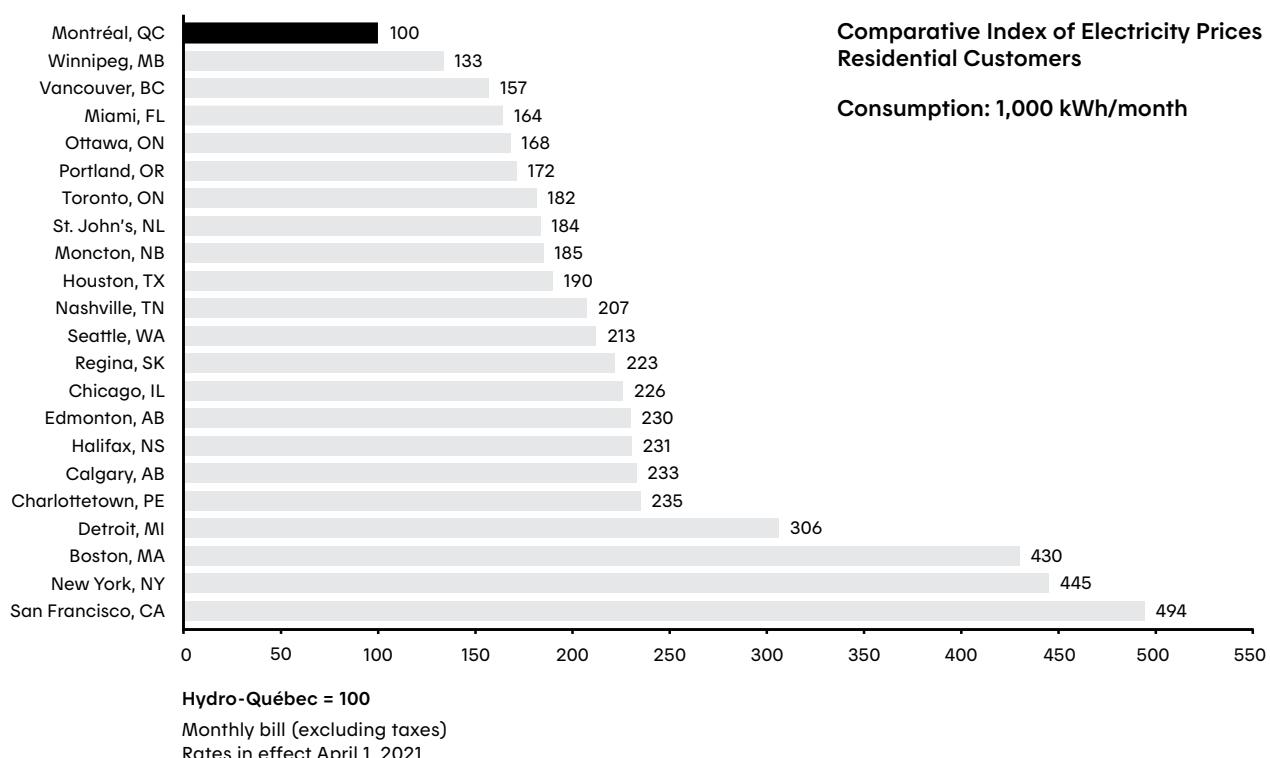
The document *Electricity Rates effective April 1, 2021*, sets out Hydro-Québec's rates established in accordance with Schedule 1 of the *Hydro-Québec Act*. Three types of rates are in effect: domestic rates, for residential customers; the industrial rate, for large-power industrial customers; and general 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 customer

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.

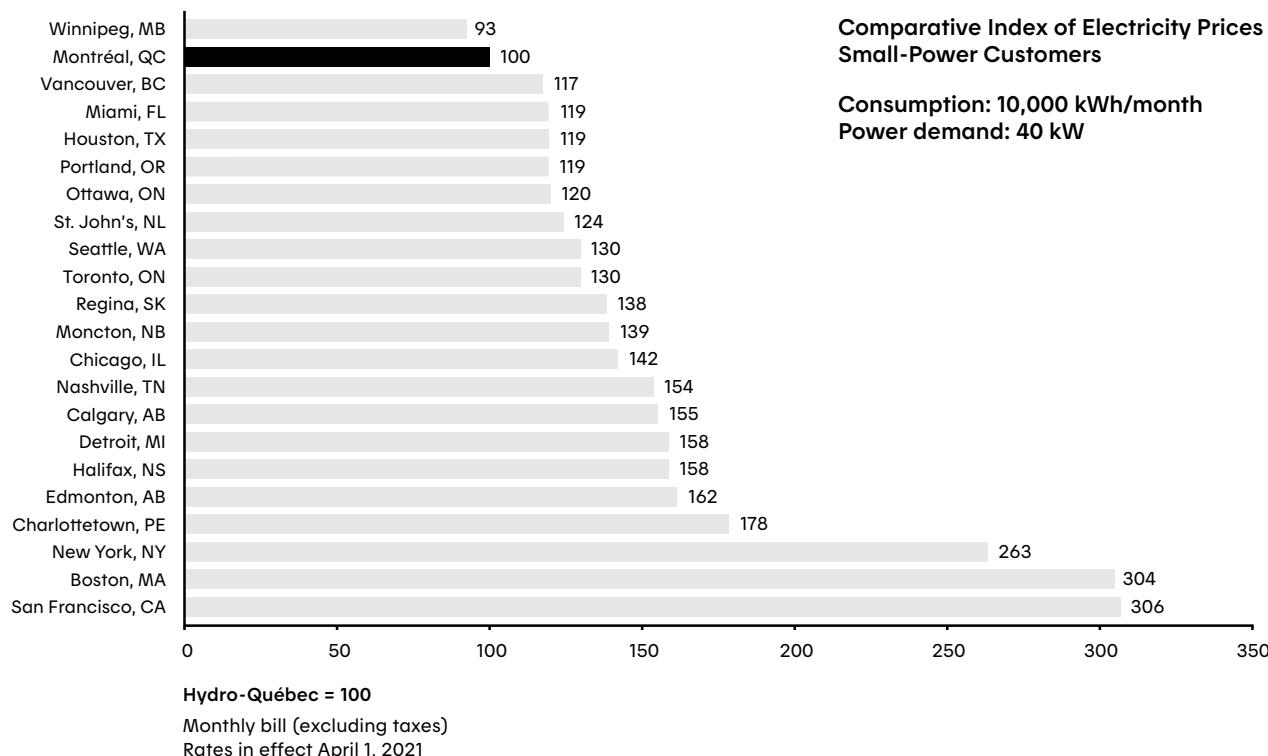
FIGURE 1



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.

FIGURE 2

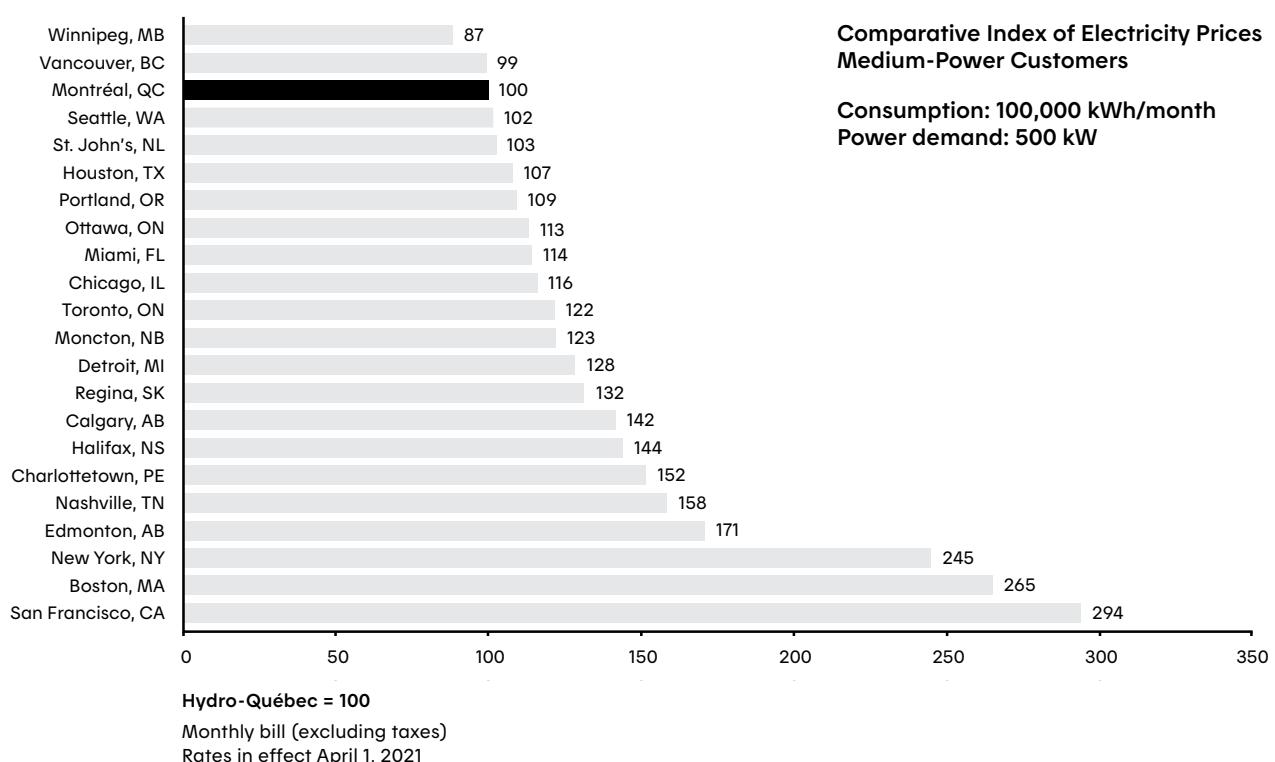


MEDIUM-POWER CUSTOMERS (100 TO 5,000 kW)

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.

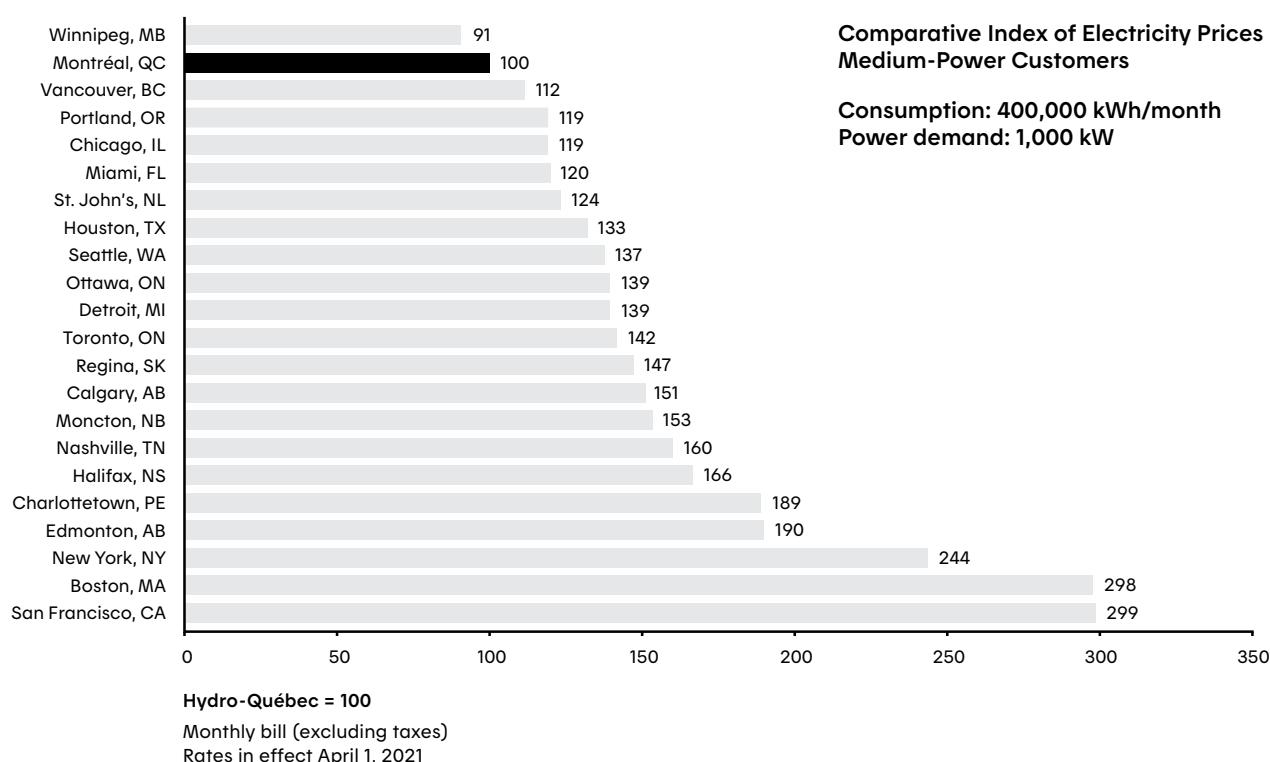
For medium-power customers with a monthly consumption of 100,000 kWh and a power demand of 500 kW, Montréal remains in *third* place.

FIGURE 3



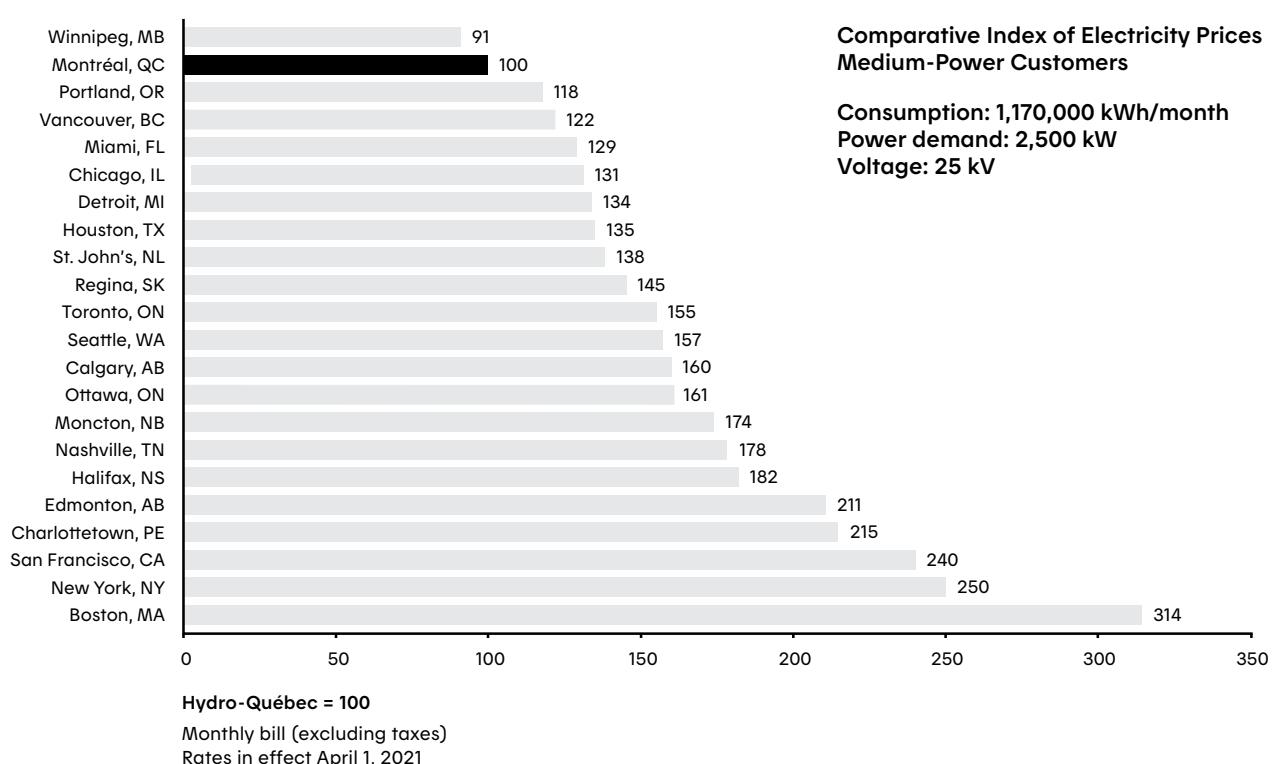
For customers with a monthly consumption of 400,000 kWh and a power demand of 1,000 kW, Montréal is in second place.

FIGURE 4



In the case of customers with a monthly consumption of 1,170,000 kWh and a power demand of 2,500 kW, Montréal holds second place, as was the case last year.

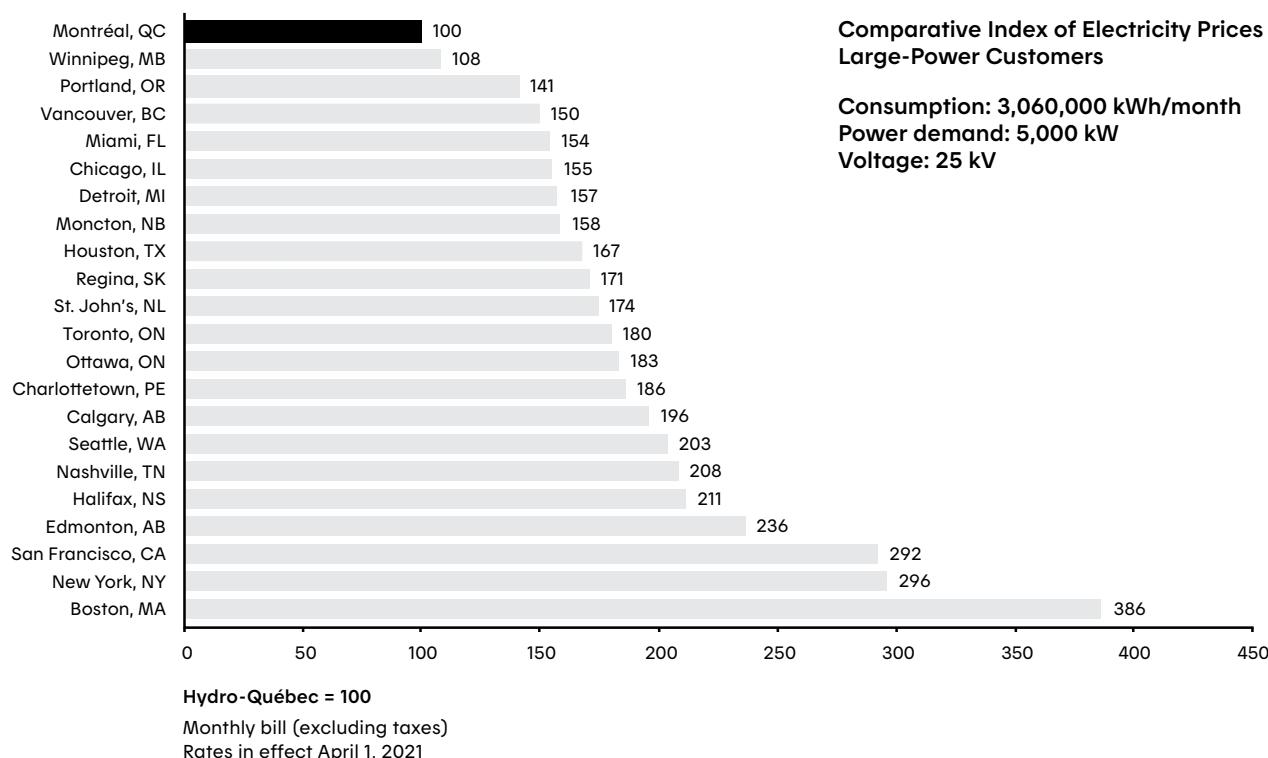
FIGURE 5



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

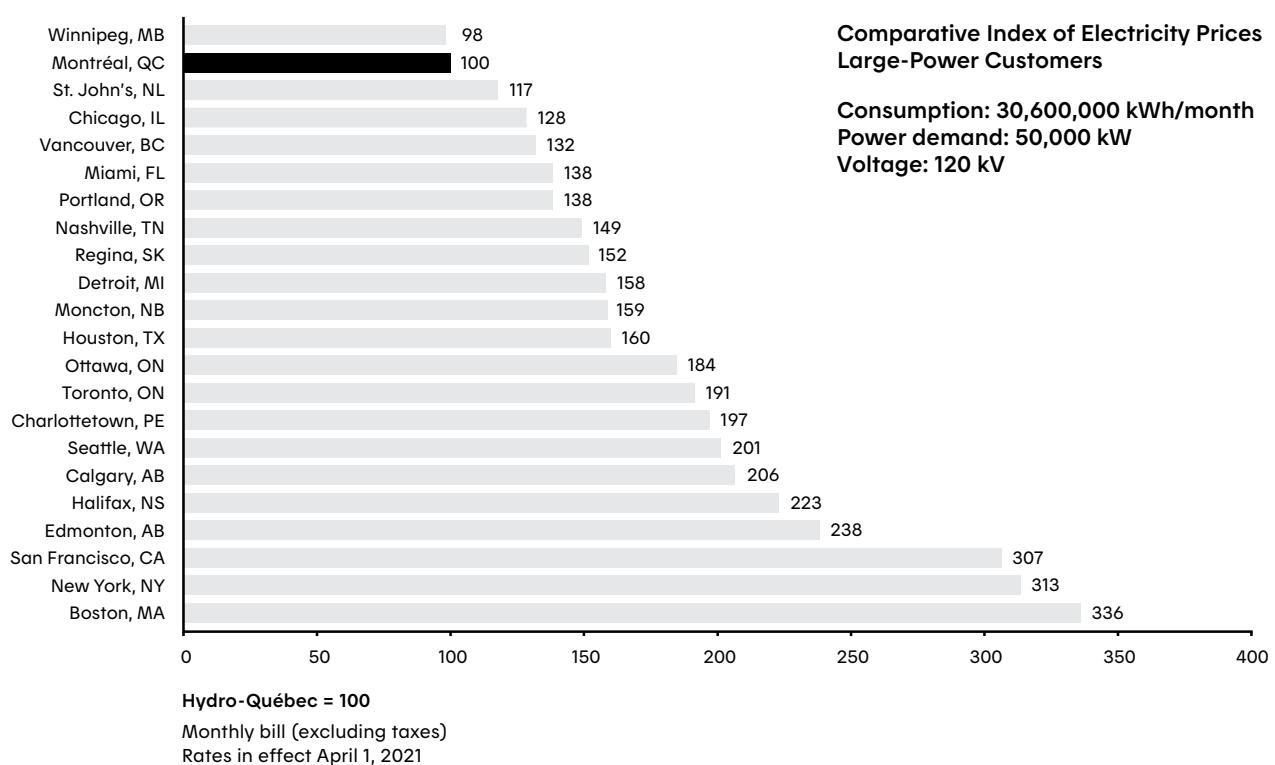
Figure 6 illustrates the comparative index of electricity prices for large-power customers with a monthly consumption of 3,060,000 kWh and a power demand of 5,000 kW. Montréal ranks *first* for the third year in a row.

FIGURE 6



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.

FIGURE 7



01

Detailed Results

Summary Tables (excluding taxes)

Monthly Bills

Average Prices

Comparative Index

MONTHLY BILLS ON APRIL 1, 2021
(in C\$)

Summary Table (excluding taxes)

	Residential	Small Power	Medium Power			Large Power	
Power demand		40 kW	500 kW	1,000 kW	2,500 kW¹	5,000 kW¹	50,000 kW²
Consumption	1,000 kWh	10,000 kWh	100,000 kWh	400,000 kWh	1,170,000 kWh	3,060,000 kWh	30,600,000 kWh
Load factor		35%	28%	56%	65%	85%	85%
Canadian Cities							
Montréal, QC	73.94	1,015.39	12,353.50	32,647.70	80,973.75	160,339.50	1,517,815.00
Calgary, AB	172.57	1,576.37	17,513.54	49,218.39	129,528.58	313,653.00	3,129,370.30
Charlottetown, PE ³	173.77	1,809.17	18,795.97	61,540.97	174,162.97	298,940.00	2,989,400.00
Edmonton, AB ⁴	169.90	1,648.06	21,139.43	62,161.06	170,572.97	377,780.58	3,612,956.49
Halifax, NS	170.91	1,608.80	17,793.50	54,119.00	147,637.65	338,131.89	3,381,342.84
Moncton, NB	136.62	1,412.79	15,188.79	49,793.79	140,985.79	253,365.71	2,416,880.00
Ottawa, ON	124.54	1,221.35	13,929.74	45,234.85	130,192.37	292,717.69	2,790,092.79
Regina, SK	165.07	1,398.04	16,347.97	48,027.97	117,239.17	274,788.38	2,312,973.29
St. John's, NL ⁵	135.99	1,258.72	12,772.12	40,483.36	111,861.95	278,943.31	1,772,740.00
Toronto, ON ³	134.29	1,323.33	15,058.10	46,248.74	125,850.69	289,147.49	2,901,622.79
Vancouver, BC	115.80	1,186.69	12,178.09	36,408.09	99,115.20	240,987.20	2,007,867.96
Winnipeg, MB	98.69	946.94	10,724.08	29,857.48	73,645.92	173,808.57	1,483,328.88
American Cities							
Boston, MA	318.16	3,090.73	32,678.31	97,275.20	254,446.33	618,627.55	5,095,202.91
Chicago, IL	166.76	1,443.80	14,326.56	38,972.08	106,405.29	248,619.86	1,938,548.61
Detroit, MI ³	226.33	1,605.55	15,762.21	45,363.31	108,728.01	251,338.90	2,397,784.97
Houston, TX ³	140.27	1,206.05	13,240.07	43,519.42	109,152.96	267,133.90	2,431,553.83
Miami, FL ³	121.33	1,204.65	14,136.70	39,071.99	104,821.12	246,641.32	2,097,313.13
Nashville, TN	153.37	1,560.23	19,473.91	52,143.01	143,737.58	333,337.28	2,253,984.34
New York, NY ³	328.81	2,674.53	30,217.42	79,732.10	202,385.25	474,713.57	4,745,503.16
Portland, OR ³	127.49	1,208.93	13,458.82	38,771.47	95,492.56	225,389.82	2,099,099.43
San Francisco, CA ³	365.40	3,103.63	36,344.62	97,650.43	194,666.93	468,123.23	4,664,836.02
Seattle, WA	157.56	1,323.03	12,608.37	44,731.57	127,000.46	325,582.41	3,044,590.79
AVERAGE	171.71	1,583.04	17,547.36	51,498.73	134,027.43	306,914.14	2,776,582.16

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.

AVERAGE PRICES ON APRIL 1, 2021

(in ¢/kWh)¹

Summary Table (excluding taxes)

	Residential	Small Power	Medium Power			Large Power	
Power demand		40 kW	500 kW	1,000 kW	2,500 kW²	5,000 kW²	50,000 kW³
Consumption	1,000 kWh	10,000 kWh	100,000 kWh	400,000 kWh	1,170,000 kWh	3,060,000 kWh	30,600,000 kWh
Load factor		35%	28%	56%	65%	85%	85%
Canadian Cities							
Montréal, QC	7.39	10.15	12.35	8.16	6.92	5.24	4.96
Calgary, AB	17.26	15.76	17.51	12.30	11.07	10.25	10.23
Charlottetown, PE ⁴	17.38	18.09	18.80	15.39	14.89	9.77	9.77
Edmonton, AB ⁵	16.99	16.48	21.14	15.54	14.58	12.35	11.81
Halifax, NS	17.09	16.09	17.79	13.53	12.62	11.05	11.05
Moncton, NB	13.66	14.13	15.19	12.45	12.05	8.28	7.90
Ottawa, ON	12.45	12.21	13.93	11.31	11.13	9.57	9.12
Regina, SK	16.51	13.98	16.35	12.01	10.02	8.98	7.56
St. John's, NL ⁶	13.60	12.59	12.77	10.12	9.56	9.12	5.79
Toronto, ON ⁴	13.43	13.23	15.06	11.56	10.76	9.45	9.48
Vancouver, BC	11.58	11.87	12.18	9.10	8.47	7.88	6.56
Winnipeg, MB	9.87	9.47	10.72	7.46	6.29	5.68	4.85
American Cities							
Boston, MA	31.82	30.91	32.68	24.32	21.75	20.22	16.65
Chicago, IL	16.68	14.44	14.33	9.74	9.09	8.12	6.34
Detroit, MI ⁴	22.63	16.06	15.76	11.34	9.29	8.21	7.84
Houston, TX ⁴	14.03	12.06	13.24	10.88	9.33	8.73	7.95
Miami, FL ⁴	12.13	12.05	14.14	9.77	8.96	8.06	6.85
Nashville, TN	15.34	15.60	19.47	13.04	12.29	10.89	7.37
New York, NY ⁴	32.88	26.75	30.22	19.93	17.30	15.51	15.51
Portland, OR ⁴	12.75	12.09	13.46	9.69	8.16	7.37	6.86
San Francisco, CA ⁴	36.54	31.04	36.34	24.41	16.64	15.30	15.24
Seattle, WA	15.76	13.23	12.61	11.18	10.85	10.64	9.95
AVERAGE	17.17	15.83	17.55	12.87	11.46	10.03	9.07

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, 2021

(Hydro-Québec = 100)

Summary Table (excluding taxes)

	Residential	Small Power	Medium Power			Large Power	
Power demand		40 kW	500 kW	1,000 kW	2,500 kW¹	5,000 kW¹	50,000 kW²
Consumption	1,000 kWh	10,000 kWh	100,000 kWh	400,000 kWh	1,170,000 kWh	3,060,000 kWh	30,600,000 kWh
Load factor		35%	28%	56%	65%	85%	85%
Canadian Cities							
Montréal, QC	100	100	100	100	100	100	100
Calgary, AB	233	155	142	151	160	196	206
Charlottetown, PE ³	235	178	152	189	215	186	197
Edmonton, AB ⁴	230	162	171	190	211	236	238
Halifax, NS	231	158	144	166	182	211	223
Moncton, NB	185	139	123	153	174	158	159
Ottawa, ON	168	120	113	139	161	183	184
Regina, SK	223	138	132	147	145	171	152
St. John's, NL ⁵	184	124	103	124	138	174	117
Toronto, ON ³	182	130	122	142	155	180	191
Vancouver, BC	157	117	99	112	122	150	132
Winnipeg, MB	133	93	87	91	91	108	98
American Cities							
Boston, MA	430	304	265	298	314	386	336
Chicago, IL	226	142	116	119	131	155	128
Detroit, MI ³	306	158	128	139	134	157	158
Houston, TX ³	190	119	107	133	135	167	160
Miami, FL ³	164	119	114	120	129	154	138
Nashville, TN	207	154	158	160	178	208	149
New York, NY ³	445	263	245	244	250	296	313
Portland, OR ³	172	119	109	119	118	141	138
San Francisco, CA ³	494	306	294	299	240	292	307
Seattle, WA	213	130	102	137	157	203	201
AVERAGE	232	156	142	158	166	191	183

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.

02

Detailed Results

Summary Tables (including taxes)

Monthly Bills

Average Prices

Comparative Index

MONTHLY BILLS ON APRIL 1, 2021
(in C\$)

Summary Table (including taxes)

	Residential	Small Power	Medium Power			Large Power	
Power demand		40 kW	500 kW	1,000 kW	2,500 kW¹	5,000 kW¹	50,000 kW²
Consumption	1,000 kWh	10,000 kWh	100,000 kWh	400,000 kWh	1,170,000 kWh	3,060,000 kWh	30,600,000 kWh
Load factor		35%	28%	56%	65%	85%	85%
Canadian Cities							
Montréal, QC	85.02	1,167.45	14,203.44	37,536.70	93,099.57	184,350.35	1,745,107.80
Calgary, AB	181.20	1,655.19	18,389.22	51,679.31	136,005.01	329,335.65	3,285,838.82
Charlottetown, PE ³	199.84	2,080.55	21,615.37	70,772.12	200,287.42	343,781.00	3,437,810.00
Edmonton, AB ⁴	178.40	1,730.46	22,196.40	65,269.12	179,101.62	396,669.61	3,793,604.32
Halifax, NS	179.46	1,850.12	20,462.53	62,236.85	169,783.30	388,851.67	3,888,544.27
Moncton, NB	157.11	1,624.71	17,467.11	57,262.86	162,133.66	291,370.57	2,779,412.00
Ottawa, ON	145.08	1,422.85	15,740.60	51,115.39	147,117.37	330,770.99	3,152,804.85
Regina, SK	196.54	1,766.96	20,548.61	61,079.93	150,013.68	353,629.51	3,007,443.97
St. John's, NL ⁵	156.38	1,447.53	14,687.94	46,555.86	128,641.24	320,784.81	2,038,651.00
Toronto, ON ³	156.45	1,541.65	17,015.65	52,261.08	142,211.28	326,736.66	3,278,833.76
Vancouver, BC	123.58	1,246.03	12,787.00	38,228.50	104,070.96	253,036.56	2,108,261.36
Winnipeg, MB	113.13	1,110.29	12,573.98	35,007.89	82,225.67	194,057.27	1,656,136.69
American Cities							
Boston, MA	318.16	3,276.50	34,646.65	103,058.70	269,482.82	655,025.80	5,390,993.37
Chicago, IL	178.80	1,541.35	15,214.91	42,340.65	115,877.64	272,323.65	2,144,535.59
Detroit, MI ³	246.70	1,782.16	17,496.05	50,353.28	120,688.09	278,986.18	2,661,541.32
Houston, TX ³	141.67	1,300.96	14,267.73	46,973.74	117,975.56	288,785.03	2,628,684.42
Miami, FL ³	143.33	1,522.81	17,908.68	49,225.03	131,871.61	309,620.98	2,608,405.40
Nashville, TN	153.37	1,669.44	20,837.09	55,793.02	153,799.21	356,670.89	2,411,763.25
New York, NY ³	358.19	2,981.91	33,690.35	88,895.85	225,646.59	529,275.35	5,290,933.32
Portland, OR ³	129.31	1,226.39	13,654.64	39,331.90	96,914.47	228,758.74	2,130,553.16
San Francisco, CA ³	365.77	3,262.58	38,199.54	102,683.73	204,841.29	492,682.80	4,909,611.93
Seattle, WA	157.56	1,323.03	12,608.37	44,731.57	127,000.46	325,582.41	3,044,590.79
AVERAGE	184.77	1,751.41	19,373.27	56,926.96	148,126.75	338,685.75	3,063,366.43

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.

AVERAGE PRICES ON APRIL 1, 2021

(in ¢/kWh)¹

Summary Table (including taxes)

	Residential	Small Power	Medium Power			Large Power	
Power demand		40 kW	500 kW	1,000 kW	2,500 kW²	5,000 kW²	50,000 kW³
Consumption	1,000 kWh	10,000 kWh	100,000 kWh	400,000 kWh	1,170,000 kWh	3,060,000 kWh	30,600,000 kWh
Load factor		35%	28%	56%	65%	85%	85%
Canadian Cities							
Montréal, QC	8.50	11.67	14.20	9.38	7.96	6.02	5.70
Calgary, AB	18.12	16.55	18.39	12.92	11.62	10.76	10.74
Charlottetown, PE ⁴	19.98	20.81	21.62	17.69	17.12	11.23	11.23
Edmonton, AB ⁵	17.84	17.30	22.20	16.32	15.31	12.96	12.40
Halifax, NS	17.95	18.50	20.46	15.56	14.51	12.71	12.71
Moncton, NB	15.71	16.25	17.47	14.32	13.86	9.52	9.08
Ottawa, ON	14.51	14.23	15.74	12.78	12.57	10.81	10.30
Regina, SK	19.65	17.67	20.55	15.27	12.82	11.56	9.83
St. John's, NL ⁶	15.64	14.48	14.69	11.64	10.99	10.48	6.66
Toronto, ON ⁴	15.64	15.42	17.02	13.07	12.15	10.68	10.72
Vancouver, BC	12.36	12.46	12.79	9.56	8.89	8.27	6.89
Winnipeg, MB	11.31	11.10	12.57	8.75	7.03	6.34	5.41
American Cities							
Boston, MA	31.82	32.76	34.65	25.76	23.03	21.41	17.62
Chicago, IL	17.88	15.41	15.21	10.59	9.90	8.90	7.01
Detroit, MI ⁴	24.67	17.82	17.50	12.59	10.32	9.12	8.70
Houston, TX ⁴	14.17	13.01	14.27	11.74	10.08	9.44	8.59
Miami, FL ⁴	14.33	15.23	17.91	12.31	11.27	10.12	8.52
Nashville, TN	15.34	16.69	20.84	13.95	13.15	11.66	7.88
New York, NY ⁴	35.82	29.82	33.69	22.22	19.29	17.30	17.29
Portland, OR ⁴	12.93	12.26	13.65	9.83	8.28	7.48	6.96
San Francisco, CA ⁴	36.58	32.63	38.20	25.67	17.51	16.10	16.04
Seattle, WA	15.76	13.23	12.61	11.18	10.85	10.64	9.95
AVERAGE	18.48	17.51	19.37	14.23	12.66	11.07	10.01

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, 2021

(Hydro-Québec = 100)

Summary Table (including taxes)

	Residential	Small Power	Medium Power			Large Power	
Power demand		40 kW	500 kW	1,000 kW	2,500 kW¹	5,000 kW¹	50,000 kW²
Consumption	1,000 kWh	10,000 kWh	100,000 kWh	400,000 kWh	1,170,000 kWh	3,060,000 kWh	30,600,000 kWh
Load factor		35%	28%	56%	65%	85%	85%
Canadian Cities							
Montréal, QC	100	100	100	100	100	100	100
Calgary, AB	213	142	129	138	146	179	188
Charlottetown, PE ³	235	178	152	189	215	186	197
Edmonton, AB ⁴	210	148	156	174	192	215	217
Halifax, NS	211	158	144	166	182	211	223
Moncton, NB	185	139	123	153	174	158	159
Ottawa, ON	171	122	111	136	158	179	181
Regina, SK	231	151	145	163	161	192	172
St. John's, NL ⁵	184	124	103	124	138	174	117
Toronto, ON ³	184	132	120	139	153	177	188
Vancouver, BC	145	107	90	102	112	137	121
Winnipeg, MB	133	95	89	93	88	105	95
American Cities							
Boston, MA	374	281	244	275	289	355	309
Chicago, IL	210	132	107	113	124	148	123
Detroit, MI ³	290	153	123	134	130	151	153
Houston, TX ³	167	111	100	125	127	157	151
Miami, FL ³	169	130	126	131	142	168	149
Nashville, TN	180	143	147	149	165	193	138
New York, NY ³	421	255	237	237	242	287	303
Portland, OR ³	152	105	96	105	104	124	122
San Francisco, CA ³	430	279	269	274	220	267	281
Seattle, WA	185	113	89	119	136	177	174
AVERAGE	217	150	136	152	159	184	176

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.

03

Detailed Results

Residential

Monthly Bills

Average Prices

Comparative Index

RESIDENTIAL

Monthly Bills on April 1, 2021

(in C\$)

Consumption	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
Canadian Cities					
Montréal, QC	50.84	58.54	73.94	162.27	257.29
Calgary, AB	118.03	136.21	172.57	318.01	463.44
Charlottetown, PE ¹	117.82	136.47	173.77	322.97	441.77
Edmonton, AB	116.46	134.29	169.90	312.42	454.94
Halifax, NS	110.88	130.89	170.91	330.99	491.07
Moncton, NB	93.95	108.17	136.62	250.42	364.22
Ottawa, ON	86.66	99.29	124.54	225.53	326.52
Regina, SK	111.72	129.50	165.07	307.35	449.63
St. John's, NL ²	90.93	105.94	135.99	256.17	376.34
Toronto, ON ¹	95.31	108.31	134.29	238.24	342.18
Vancouver, BC	65.27	80.55	115.80	256.80	397.80
Winnipeg, MB	65.00	76.23	98.69	188.52	278.35
American Cities					
Boston, MA	202.16	240.81	318.16	627.52	936.88
Chicago, IL	111.74	130.07	166.76	313.53	460.30
Detroit, MI ¹	140.65	169.21	226.33	454.82	683.30
Houston, TX ¹	102.24	119.08	140.27	275.02	409.78
Miami, FL ¹	79.76	93.62	121.33	258.10	394.86
Nashville, TN	106.01	121.80	153.37	279.64	410.94
New York, NY ¹	213.18	251.72	328.81	637.15	945.50
Portland, OR ¹	84.63	98.92	127.49	269.00	410.51
San Francisco, CA ¹	215.18	266.37	365.40	844.21	1,356.15
Seattle, WA	95.09	115.91	157.56	324.16	490.77
AVERAGE	112.43	132.36	171.71	338.77	506.48

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

2) Newfoundland Power rates.

RESIDENTIAL

Average Prices on April 1, 2021

(in ¢/kWh)¹

Consumption	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
Canadian Cities					
Montréal, QC	8.13	7.81	7.39	8.11	8.58
Calgary, AB	18.88	18.16	17.26	15.90	15.45
Charlottetown, PE ²	18.85	18.20	17.38	16.15	14.73
Edmonton, AB	18.63	17.91	16.99	15.62	15.16
Halifax, NS	17.74	17.45	17.09	16.55	16.37
Moncton, NB	15.03	14.42	13.66	12.52	12.14
Ottawa, ON	13.87	13.24	12.45	11.28	10.88
Regina, SK	17.87	17.27	16.51	15.37	14.99
St. John's, NL ³	14.55	14.13	13.60	12.81	12.54
Toronto, ON ²	15.25	14.44	13.43	11.91	11.41
Vancouver, BC	10.44	10.74	11.58	12.84	13.26
Winnipeg, MB	10.40	10.16	9.87	9.43	9.28
American Cities					
Boston, MA	32.35	32.11	31.82	31.38	31.23
Chicago, IL	17.88	17.34	16.68	15.68	15.34
Detroit, MI ²	22.50	22.56	22.63	22.74	22.78
Houston, TX ²	16.36	15.88	14.03	13.75	13.66
Miami, FL ²	12.76	12.48	12.13	12.90	13.16
Nashville, TN	16.96	16.24	15.34	13.98	13.70
New York, NY ²	34.11	33.56	32.88	31.86	31.52
Portland, OR ²	13.54	13.19	12.75	13.45	13.68
San Francisco, CA ²	34.43	35.52	36.54	42.21	45.20
Seattle, WA	15.21	15.45	15.76	16.21	16.36
AVERAGE	17.99	17.65	17.17	16.94	16.88

1) In Canadian currency.

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

3) Newfoundland Power rates.

RESIDENTIAL

Comparative Index on April 1, 2021

(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	232	233	233	196	180
Charlottetown, PE ¹	232	233	235	199	172
Edmonton, AB	229	229	230	193	177
Halifax, NS	218	224	231	204	191
Moncton, NB	185	185	185	154	142
Ottawa, ON	170	170	168	139	127
Regina, SK	220	221	223	189	175
St. John's, NL ²	179	181	184	158	146
Toronto, ON ¹	187	185	182	147	133
Vancouver, BC	128	138	157	158	155
Winnipeg, MB	128	130	133	116	108
American Cities					
Boston, MA	398	411	430	387	364
Chicago, IL	220	222	226	193	179
Detroit, MI ¹	277	289	306	280	266
Houston, TX ¹	201	203	190	169	159
Miami, FL ¹	157	160	164	159	153
Nashville, TN	209	208	207	172	160
New York, NY ¹	419	430	445	393	367
Portland, OR ¹	166	169	172	166	160
San Francisco, CA ¹	423	455	494	520	527
Seattle, WA	187	198	213	200	191
AVERAGE	221	226	232	209	197

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

2) Newfoundland Power rates.

04

Detailed Results

Small Power

Monthly Bills

Average Prices

Comparative Index

SMALL POWER

Monthly Bills on April 1, 2021

(in C\$)

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	87.71	213.07	1,015.39	1,858.04	2,750.75
Calgary, AB	157.80	333.98	1,576.37	2,694.31	3,556.57
Charlottetown, PE ¹	161.90	390.77	1,809.17	3,095.37	4,416.47
Edmonton, AB	139.68	343.50	1,648.06	3,091.99	4,269.43
Halifax, NS	125.79	308.32	1,608.80	2,806.00	4,022.00
Moncton, NB	126.47	297.59	1,412.79	2,458.19	3,526.29
Ottawa, ON	106.60	257.24	1,221.35	1,906.08	3,385.54
Regina, SK	133.66	304.52	1,398.04	2,687.72	3,650.47
St. John's, NL ²	111.09	291.59	1,258.72	2,179.92	3,130.00
Toronto, ON ¹	128.01	289.54	1,323.33	2,010.36	3,467.37
Vancouver, BC	104.56	260.44	1,186.69	1,895.29	2,954.59
Winnipeg, MB	90.11	205.90	946.94	1,920.92	2,535.66
American Cities					
Boston, MA	225.25	577.59	3,090.73	6,166.08	8,228.93
Chicago, IL	172.46	382.06	1,443.80	2,496.30	3,559.41
Detroit, MI ¹	133.94	347.18	1,605.55	2,234.74	3,965.00
Houston, TX ¹	86.50	322.62	1,206.05	2,206.32	2,995.50
Miami, FL ¹	98.20	239.64	1,204.65	2,297.90	2,961.72
Nashville, TN	179.69	387.86	1,560.23	3,617.45	4,414.65
New York, NY ¹	252.05	835.68	2,674.53	5,517.69	6,582.83
Portland, OR ¹	115.61	270.72	1,208.93	2,095.69	2,973.59
San Francisco, CA ¹	252.68	653.18	3,103.63	5,053.62	7,449.43
Seattle, WA	99.23	264.61	1,323.03	1,916.32	3,026.13
AVERAGE	140.41	353.53	1,583.04	2,827.56	3,991.92

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

2) Newfoundland Power rates.

SMALL POWER

Average Prices on April 1, 2021

(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	11.69	10.65	10.15	13.27	11.00
Calgary, AB	21.04	16.70	15.76	19.25	14.23
Charlottetown, PE ²	21.59	19.54	18.09	22.11	17.67
Edmonton, AB	18.62	17.18	16.48	22.09	17.08
Halifax, NS	16.77	15.42	16.09	20.04	16.09
Moncton, NB	16.86	14.88	14.13	17.56	14.11
Ottawa, ON	14.21	12.86	12.21	13.61	13.54
Regina, SK	17.82	15.23	13.98	19.20	14.60
St. John's, NL ³	14.81	14.58	12.59	15.57	12.52
Toronto, ON ²	17.07	14.48	13.23	14.36	13.87
Vancouver, BC	13.94	13.02	11.87	13.54	11.82
Winnipeg, MB	12.01	10.30	9.47	13.72	10.14

American Cities

Boston, MA	30.03	28.88	30.91	44.04	32.92
Chicago, IL	22.99	19.10	14.44	17.83	14.24
Detroit, MI ²	17.86	17.36	16.06	15.96	15.86
Houston, TX ²	11.53	16.13	12.06	15.76	11.98
Miami, FL ²	13.09	11.98	12.05	16.41	11.85
Nashville, TN	23.96	19.39	15.60	25.84	17.66
New York, NY ²	33.61	41.78	26.75	39.41	26.33
Portland, OR ²	15.41	13.54	12.09	14.97	11.89
San Francisco, CA ²	33.69	32.66	31.04	36.10	29.80
Seattle, WA	13.23	13.23	13.23	13.69	12.10
AVERAGE	18.72	17.68	15.83	20.20	15.97

1) In Canadian currency.

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

3) Newfoundland Power rates.

SMALL POWER

Comparative Index on April 1, 2021

(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	180	157	155	145	129
Charlottetown, PE ¹	185	183	178	167	161
Edmonton, AB	159	161	162	166	155
Halifax, NS	143	145	158	151	146
Moncton, NB	144	140	139	132	128
Ottawa, ON	122	121	120	103	123
Regina, SK	152	143	138	145	133
St. John's, NL ²	127	137	124	117	114
Toronto, ON ¹	146	136	130	108	126
Vancouver, BC	119	122	117	102	107
Winnipeg, MB	103	97	93	103	92
American Cities					
Boston, MA	257	271	304	332	299
Chicago, IL	197	179	142	134	129
Detroit, MI ¹	153	163	158	120	144
Houston, TX ¹	99	151	119	119	109
Miami, FL ¹	112	112	119	124	108
Nashville, TN	205	182	154	195	160
New York, NY ¹	287	392	263	297	239
Portland, OR ¹	132	127	119	113	108
San Francisco, CA ¹	288	307	306	272	271
Seattle, WA	113	124	130	103	110
AVERAGE	160	166	156	152	145

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

2) Newfoundland Power rates.

05

Detailed Results

Medium Power

Monthly Bills

Average Prices

Comparative Index

MEDIUM POWER

Monthly Bills on April 1, 2021

(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 Cities					
Montréal, QC	12,353.50	17,575.00	24,707.00	32,647.70	80,973.75
Calgary, AB	17,513.54	24,963.56	34,318.36	49,218.39	129,528.58
Charlottetown, PE ²	18,795.97	30,805.97	37,520.97	61,540.97	174,162.97
Edmonton, AB ³	21,139.43	32,410.96	39,618.01	62,161.06	170,572.97
Halifax, NS	17,793.50	27,059.50	35,587.00	54,119.00	147,637.65
Moncton, NB	15,188.79	24,898.79	30,373.79	49,793.79	140,985.79
Ottawa, ON	13,929.74	22,717.55	27,659.22	45,234.85	130,192.37
Regina, SK	16,347.97	24,021.97	32,679.97	48,027.97	117,239.17
St. John's, NL ⁴	12,772.12	20,939.74	24,307.69	40,483.36	111,861.95
Toronto, ON ²	15,058.10	23,386.75	29,758.00	46,248.74	125,850.69
Vancouver, BC	12,178.09	18,208.09	24,348.09	36,408.09	99,115.20
Winnipeg, MB	10,724.08	15,052.08	21,201.48	29,857.48	73,645.92
American Cities					
Boston, MA	32,678.31	48,738.12	65,155.59	97,275.20	254,446.33
Chicago, IL	14,326.56	19,565.25	28,494.71	38,972.08	106,405.29
Detroit, MI ²	15,762.21	22,800.93	31,491.82	45,363.31	108,728.01
Houston, TX ²	13,240.07	20,414.37	29,170.83	43,519.42	109,152.96
Miami, FL ²	14,136.70	19,585.88	28,173.64	39,071.99	104,821.12
Nashville, TN	19,473.91	26,186.65	38,717.54	52,143.01	143,737.58
New York, NY ²	30,217.42	39,900.54	60,365.85	79,732.10	202,385.25
Portland, OR ²	13,458.82	19,414.28	27,025.52	38,771.47	95,492.56
San Francisco, CA ²	36,344.62	50,181.40	71,254.82	97,650.43	194,666.93
Seattle, WA	12,608.37	22,697.58	24,784.43	44,731.57	127,000.46
AVERAGE	17,547.36	25,978.41	34,850.65	51,498.73	134,027.43

1) Supply voltage of 25 kV, 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 Power rates.

MEDIUM POWER

Average Prices on April 1, 2021

(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%

Canadian Cities

Montréal, QC	12.35	8.79	12.35	8.16	6.92
Calgary, AB	17.51	12.48	17.16	12.30	11.07
Charlottetown, PE ³	18.80	15.40	18.76	15.39	14.89
Edmonton, AB ⁴	21.14	16.21	19.81	15.54	14.58
Halifax, NS	17.79	13.53	17.79	13.53	12.62
Moncton, NB	15.19	12.45	15.19	12.45	12.05
Ottawa, ON	13.93	11.36	13.83	11.31	11.13
Regina, SK	16.35	12.01	16.34	12.01	10.02
St. John's, NL ⁵	12.77	10.47	12.15	10.12	9.56
Toronto, ON ³	15.06	11.69	14.88	11.56	10.76
Vancouver, BC	12.18	9.10	12.17	9.10	8.47
Winnipeg, MB	10.72	7.53	10.60	7.46	6.29

American Cities

Boston, MA	32.68	24.37	32.58	24.32	21.75
Chicago, IL	14.33	9.78	14.25	9.74	9.09
Detroit, MI ³	15.76	11.40	15.75	11.34	9.29
Houston, TX ³	13.24	10.21	14.59	10.88	9.33
Miami, FL ³	14.14	9.79	14.09	9.77	8.96
Nashville, TN	19.47	13.09	19.36	13.04	12.29
New York, NY ³	30.22	19.95	30.18	19.93	17.30
Portland, OR ³	13.46	9.71	13.51	9.69	8.16
San Francisco, CA ³	36.34	25.09	35.63	24.41	16.64
Seattle, WA	12.61	11.35	12.39	11.18	10.85
AVERAGE	17.55	12.99	17.43	12.87	11.46

1) In Canadian currency.

2) Supply voltage of 25 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 Power rates.

MEDIUM POWER

Comparative Index on April 1, 2021

(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	142	142	139	151	160
Charlottetown, PE ²	152	175	152	189	215
Edmonton, AB ³	171	184	160	190	211
Halifax, NS	144	154	144	166	182
Moncton, NB	123	142	123	153	174
Ottawa, ON	113	129	112	139	161
Regina, SK	132	137	132	147	145
St. John's, NL ⁴	103	119	98	124	138
Toronto, ON ²	122	133	120	142	155
Vancouver, BC	99	104	99	112	122
Winnipeg, MB	87	86	86	91	91
American Cities					
Boston, MA	265	277	264	298	314
Chicago, IL	116	111	115	119	131
Detroit, MI ²	128	130	127	139	134
Houston, TX ²	107	116	118	133	135
Miami, FL ²	114	111	114	120	129
Nashville, TN	158	149	157	160	178
New York, NY ²	245	227	244	244	250
Portland, OR ²	109	110	109	119	118
San Francisco, CA ²	294	286	288	299	240
Seattle, WA	102	129	100	137	157
AVERAGE	142	148	141	158	166

1) Supply voltage of 25 kV, 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 Power rates.

06

Detailed Results

Large Power

Monthly Bills

Average Prices

Comparative Index

LARGE POWER

Monthly Bills on April 1, 2021

(in C\$)

Power demand	5,000 kW	5,000 kW	10,000 kW	30,000 kW	50,000 kW	50,000 kW
Consumption	2,340,000 kWh	3,060,000 kWh	5,760,000 kWh	17,520,000 kWh	23,400,000 kWh	30,600,000 kWh
Voltage ¹	25 kV	25 kV	120 kV	120 kV	120 kV	120 kV
Load factor	65%	85%	80%	81%	65%	85%

Canadian Cities

Montréal, QC	136,536.30	160,339.50	291,661.40	882,918.60	1,279,783.00	1,517,815.00
Calgary, AB	254,773.10	313,653.00	597,067.89	1,809,245.86	2,540,571.34	3,129,370.30
Charlottetown, PE ²	245,660.00	298,940.00	571,240.00	1,731,480.00	2,456,600.00	2,989,400.00
Edmonton, AB ³	305,679.80	377,780.58	696,038.46	2,094,983.34	2,933,782.28	3,612,956.49
Halifax, NS	273,425.49	338,131.89	643,910.57	1,953,312.51	2,734,278.84	3,381,342.84
Moncton, NB	213,317.87	253,365.71	463,648.00	1,404,096.00	2,022,320.00	2,416,880.00
Ottawa, ON	283,744.16	292,717.69	565,717.05	1,669,679.18	2,700,357.46	2,790,092.79
Regina, SK	225,093.98	274,788.38	446,691.58	1,339,513.04	1,873,125.29	2,312,973.29
St. John's, NL ⁴	220,710.90	278,943.31	522,667.31	1,029,708.00	1,481,860.00	1,772,740.00
Toronto, ON ²	281,388.18	289,147.49	579,282.33	1,732,293.68	2,812,616.88	2,901,622.79
Vancouver, BC	198,222.44	240,987.20	383,307.33	1,162,105.85	1,642,611.96	2,007,867.96
Winnipeg, MB	144,540.57	173,808.57	283,602.14	859,520.71	1,222,112.88	1,483,328.88

American Cities

Boston, MA	508,578.55	618,627.55	968,464.88	2,938,651.09	4,078,663.15	5,095,202.91
Chicago, IL	212,014.06	248,619.86	372,597.86	1,120,892.59	1,572,490.55	1,938,548.61
Detroit, MI ²	216,834.26	251,338.90	463,154.89	1,399,487.50	2,059,794.77	2,397,784.97
Houston, TX ²	215,530.56	267,133.90	461,787.58	1,399,856.07	1,920,848.75	2,431,553.83
Miami, FL ²	209,343.17	246,641.32	405,199.55	1,221,212.61	1,769,563.41	2,097,313.13
Nashville, TN	284,191.41	333,337.28	413,384.76	1,215,950.25	1,828,977.05	2,253,984.34
New York, NY ²	404,589.11	474,713.57	914,183.51	2,765,562.58	4,044,258.53	4,745,503.16
Portland, OR ²	187,940.23	225,389.82	404,822.49	1,220,076.12	1,751,264.83	2,099,099.43
San Francisco, CA ²	386,777.04	468,123.23	893,751.55	2,704,726.44	3,851,374.10	4,664,836.02
Seattle, WA	254,151.14	325,582.41	576,272.22	1,750,200.65	2,379,421.54	3,044,590.79
AVERAGE	257,411.01	306,914.14	541,747.88	1,609,339.67	2,316,212.57	2,776,582.16

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

Average Prices on April 1, 2021

(in ¢/kWh)¹

Power demand	5,000 kW	5,000 kW	10,000 kW	30,000 kW	50,000 kW	50,000 kW
Consumption	2,340,000 kWh	3,060,000 kWh	5,760,000 kWh	17,520,000 kWh	23,400,000 kWh	30,600,000 kWh
Voltage ²	25 kV	25 kV	120 kV	120 kV	120 kV	120 kV
Load factor	65%	85%	80%	81%	65%	85%

Canadian Cities

Montréal, QC	5.83	5.24	5.06	5.04	5.47	4.96
Calgary, AB	10.89	10.25	10.37	10.33	10.86	10.23
Charlottetown, PE ³	10.50	9.77	9.92	9.88	10.50	9.77
Edmonton, AB ⁴	13.06	12.35	12.08	11.96	12.54	11.81
Halifax, NS	11.68	11.05	11.18	11.15	11.68	11.05
Moncton, NB	9.12	8.28	8.05	8.01	8.64	7.90
Ottawa, ON	12.13	9.57	9.82	9.53	11.54	9.12
Regina, SK	9.62	8.98	7.76	7.65	8.00	7.56
St. John's, NL ⁵	9.43	9.12	9.07	5.88	6.33	5.79
Toronto, ON ³	12.03	9.45	10.06	9.89	12.02	9.48
Vancouver, BC	8.47	7.88	6.65	6.63	7.02	6.56
Winnipeg, MB	6.18	5.68	4.92	4.91	5.22	4.85

American Cities

Boston, MA	21.73	20.22	16.81	16.77	17.43	16.65
Chicago, IL	9.06	8.12	6.47	6.40	6.72	6.34
Detroit, MI ³	9.27	8.21	8.04	7.99	8.80	7.84
Houston, TX ³	9.21	8.73	8.02	7.99	8.21	7.95
Miami, FL ³	8.95	8.06	7.03	6.97	7.56	6.85
Nashville, TN	12.14	10.89	7.18	6.94	7.82	7.37
New York, NY ³	17.29	15.51	15.87	15.79	17.28	15.51
Portland, OR ³	8.03	7.37	7.03	6.96	7.48	6.86
San Francisco, CA ³	16.53	15.30	15.52	15.44	16.46	15.24
Seattle, WA	10.86	10.64	10.00	9.99	10.17	9.95
AVERAGE	11.00	10.03	9.41	9.19	9.90	9.07

1) In Canadian currency.

2) 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

Comparative Index on April 1, 2021

(Hydro-Québec = 100)

Power demand	5,000 kW	5,000 kW	10,000 kW	30,000 kW	50,000 kW	50,000 kW
Consumption	2,340,000 kWh	3,060,000 kWh	5,760,000 kWh	17,520,000 kWh	23,400,000 kWh	30,600,000 kWh
Voltage ¹	25 kV	25 kV	120 kV	120 kV	120 kV	120 kV
Load factor	65%	85%	80%	81%	65%	85%

Canadian Cities

Montréal, QC	100	100	100	100	100	100
Calgary, AB	187	196	205	205	199	206
Charlottetown, PE ²	180	186	196	196	192	197
Edmonton, AB ³	224	236	239	237	229	238
Halifax, NS	200	211	221	221	214	223
Moncton, NB	156	158	159	159	158	159
Ottawa, ON	208	183	194	189	211	184
Regina, SK	165	171	153	152	146	152
St. John's, NL ⁴	162	174	179	117	116	117
Toronto, ON ²	206	180	199	196	220	191
Vancouver, BC	145	150	131	132	128	132
Winnipeg, MB	106	108	97	97	95	98

American Cities

Boston, MA	372	386	332	333	319	336
Chicago, IL	155	155	128	127	123	128
Detroit, MI ²	159	157	159	159	161	158
Houston, TX ²	158	167	158	159	150	160
Miami, FL ²	153	154	139	138	138	138
Nashville, TN	208	208	142	138	143	149
New York, NY ²	296	296	313	313	316	313
Portland, OR ²	138	141	139	138	137	138
San Francisco, CA ²	283	292	306	306	301	307
Seattle, WA	186	203	198	198	186	201
AVERAGE	189	191	186	182	181	183

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.

A

Appendix

Rate Adjustments

Average Adjustments

Adjustments by
Customer Category

RATE ADJUSTMENTS

All Categories

	Before April 2020		Between April 1, 2020, and April 1, 2021		
	Year	%	Date	%	Comments
Canadian Utilities					
Hydro-Québec, QC	2019	0.9	April 1, 2021	1.3	
ENMAX, AB	2020	2.31	January 1, 2021	3.07	Applicable to distribution component only
Maritime Electric, PE	2018	2.3	January 1, 2021	3.0	
EPCOR, AB	2017	n.a.	—	—	
Nova Scotia Power, NS	2020	n.a.	January 1, 2021	n.a.	
NB Power, NB	2019	2.48	March 31, 2021	1.82	
Hydro Ottawa, ON	2020	n.a.	January 1, 2021	n.a.	
			November 1, 2020	n.a.	
			June 1, 2020	n.a.	
SaskPower, SK	2018	3.5	—	—	
Newfoundland Power, NL ¹	2019	6.4	—	—	
Newfoundland and Labrador Hydro, NL ¹	2020	2.7	February 1, 2021	-8.5	
Toronto Hydro, ON	2020	n.a.	January 1, 2021	n.a.	
BC Hydro, BC	2020	-1.62	April 1, 2021	1.16	
Manitoba Hydro, MB	2019	2.5	December 1, 2020	2.9	
			September 1, 2020	n.a.	

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, 2020, and April 1, 2021)

Adjustments by Customer Category

	Date	Residential %	General %	Industrial %	Average %
Canadian Utilities					
Hydro-Québec, QC	April 1, 2021	1.3 1.3 ¹ 1.3 ² 1.3 ³		0.8	1.3
ENMAX, AB	January 1, 2021	13.73 ⁴ 4.99 ² -4.31 ³ -10.70 ³	11.67 ¹	nd	3.07 ⁴
Maritime Electric, PE	January 1, 2021	3.0	3.0	3.0	3.0
EPCOR, AB	—	—	—	—	—
Nova Scotia Power, NS	January 1, 2021	1.2 2.0 ² 0.002 ³	0.4 ¹ 2.0 ⁶ 3.0 ⁷	1.9 ⁵	n.a.
NB Power, NB	March 31, 2021	1.82	1.82	1.82	1.82
Hydro Ottawa, ON	January 1, 2021 November 1, 2020 June 1, 2020	-0.14 ⁸ 1.07 ¹⁰ 17.05 ¹¹	-1.27 ⁸ 1.17 ¹⁰ 17.79 ¹¹	-2.04 ⁹ -17.27 7.58 ¹²	n.a. n.a. n.a.
SaskPower, SK	—	—	—	—	—
Newfoundland Power, NL ¹³	—	—	—	—	—
Newfoundland and Labrador Hydro, NL ¹³	February 1, 2021	—	—	-8.5	—
Toronto Hydro, ON	January 1, 2021	n.a.	n.a.	n.a.	n.a.
BC Hydro, BC	April 1, 2021	1.16	1.16	1.16	1.16
Manitoba Hydro, MB	December 1, 2020 September 1, 2020	2.9 -0.1	2.9 -0.1	2.9 -0.1	2.9 n.a.

Data concerning American utilities not available.

n.a.: Not available.

- 1) Small power.
- 2) Medium power.
- 3) Large power.
- 4) Distribution charge only.
- 5) Small industrial.
- 6) Medium industrial.
- 7) Large industrial.
- 8) Temporary relief to customers under the Regulated Price Plan (RPP) due to COVID-19 from January 1, 2021, until February 23, 2021.
- 9) Shifting of a portion of the Global Adjustment costs from the rate base to the tax base and recovery of the Global Adjustment Deferral related to COVID-19.
- 10) End of the Temporary Time-of-Use relief to customers under the Regulated Price Plan (RPP) due to COVID-19.
- 11) Implementation of the COVID-19 Recovery Rate.
- 12) Temporary Global Adjustment relief due to COVID-19.
- 13) 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.

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.

B

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 2021 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: All levels
Hydro Ottawa, ON	All levels
Nashville Electric Service, TN	All levels
Newfoundland Power, NL	Residential General: 14–10,000 kW
Pacific Gas and Electric, CA	All levels
Pacific Power and Light, OR	1,000–50,000 kW
Seattle City Light, WA	Residential General: 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	Customer Crisis Fund Deferral Account
CenterPoint Energy, TX	Accumulated Deferred Federal Income Tax Credit COVID-19 Electricity Relief Program 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 Taxes Credit
Commonwealth Edison, IL	Energy Efficiency Pricing & Performance Energy Efficiency Demand Response Balancing Adjustment Mechanism Environmental Cost Recovery Adjustment Franchise Cost Additions Renewable Energy Adjustment Renewable Energy Distributed Generation Rebate Retail Customer Assessments Zero Emission Adjustment
Consolidated Edison, NY	Adjustment Factors - MSC and MAC Billing and Payment Processing Charge Clean Energy Standard Supply Surcharge Clean Energy Standard Delivery Surcharge Delivery Revenue Surcharge Dynamic Load Management Surcharge Market Supply Charge Market Supply Charge - Capacity Merchant Function Charge Monthly Adjustment Clause Revenue Decoupling Mechanism Adjustment Tax Sur-Credit System Benefits Charge 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 DAS Adjustment Rider Local Access Fee Transmission Access Charge Deferral Account Rider
EPCOR, AB	Balancing Pool Rider Local Access Fee SAS True-up Rider Transmission Charge Deferral Account True-Up Rider
Eversource Energy, MA	Attorney General Consultant Expenses Basic Service Cost Adjustment Energy Efficiency Charge Grid Modernization Factor Long Term Renewable Contract Adjustment 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 Program Cost Adjustment Solar Expansion Cost Recovery Mechanism Solar Massachusetts Renewable Target Storm Cost Recovery Adjustment Storm Reserve Adjustment Mechanism Transition Cost Adjustment Transmission Service Cost Adjustment Vegetation Management 2017 Tax Act Credit Factor
Florida Power and Light, FL	Energy Conservation Cost Recovery Clause Capacity Payment Recovery Clause Environmental Cost Recovery Clause Fuel Cost and Purchase Power Recovery Clause Storm Protection Charge
Hydro Ottawa, ON	Capacity Based Recovery Disposition of Group 1 Deferral/Variance Accounts Disposition of Group 2 Deferral/Variance Accounts Disposition of Global Adjustment Account (2021) Lost Revenue Adjustment Mechanism Recovery 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 TVA Fuel Cost Adjustment

Newfoundland and Labrador Hydro, NL	CDM Cost Recovery Adjustment Rate Stabilization Plan Adjustment
Nova Scotia Power, NS	Fuel Adjustment Mechanism (AA/BA)
Pacific Gas and Electric, CA	California Climate Credit Competition Transition Charge Conservation Incentive Adjustment Energy Cost Recovery Amount New System Generation Charge Nuclear Decommissioning Public Purpose Programs Reliability Services Transmission Rate Adjustments Wildfire Fund Charge
Pacific Power and Light, OR	Adjustment Associated with the Pacific Northwest Electric Power Planning Conservation Act Base Supply Service Community Solar Start-Up Cost Recovery Adjustment Deer Creek Mine Closure Deferred Amounts Adjustment Energy Conservation Charge Federal Tax Act Adjustment Generation Investment Adjustment Independent Evaluator Cost Adjustment Intervenor Funding Adjustment Net Power Costs, Cost-Based Supply Service Oregon Corporate Activity Tax Recovery Adjustment Oregon Solar Incentive Program Deferral Pilot Program Cost Adjustment Property Sales Balancing Account Adjustment Public Purpose Charge Rate Mitigation Adjustment Renewable Adjustment Clause Renewable Resource Deferral Adjustment Replaced Meter Deferred Amounts Adjustment TAM Adjustment for Other Revenues
Toronto Hydro, ON	Application of Operations Center Consolidation Plan Capacity Based Recovery (CBR) Disposition of Accounts Receivable Credits Disposition of Capacity Based Recovery Account Disposition of Deferral/Variance Accounts Disposition of Expansion Deposits Disposition of Global Adjustment Account Disposition of the Gain on Property Sale Disposition of Stranded Meter Assets Disposition of Wireless Pole Attachment Revenue Recovery of 2020 Foregone Revenue Recovery of Monthly Billing Transition Costs Rural or Remote Electricity Rate Protection Charge Smart Metering Entity Charge

C

Appendix

Applicable Taxes

- Residential Sector
- General Sector
- Industrial Sector

TAXES APPLICABLE TO RESIDENTIAL SERVICE

On April 1, 2021

Tax	% (or other)	Applicable
Canadian Cities		
Montréal, QC	Goods and services tax	5
	Québec sales tax	9.975
Calgary, AB	Goods and services tax	5
Charlottetown, PE	Harmonized sales tax	15
Edmonton, AB	Goods and services tax	5
Halifax, NS	Harmonized sales tax	5
Moncton, NB	Harmonized sales tax	15
Ottawa, ON	Harmonized sales tax	13
Regina, SK	Municipal tax	10
	Carbon levy	¢/kWh
	Goods and services tax	5
St. John's, NL	Harmonized sales tax	15
Toronto, ON	Harmonized sales tax	13
Vancouver, BC	Regional transit levy	\$1.90
	Goods and services tax	5
Winnipeg, MB	Provincial sales tax	7
		1.4
	Municipal tax	2.5
		0.5
	Goods and services tax	5
American Cities		
Boston, MA	None	
Chicago, IL	State tax	¢/kWh
	Municipal tax	¢/kWh
Detroit, MI	State sales tax	4
	City of Detroit utility users' tax	5
Houston, TX	Municipal tax	1
Miami, FL	Gross receipts tax	2,5641
	Franchise fee	6.006
	Municipal tax	10
Nashville, TN	None	
New York, NY	Commodity gross receipts tax	2,4066
	Delivery gross receipts tax	4.9191
	Sales tax	4.5
Portland, OR	Multnomah County business income tax	0.05
	City of Portland franchise tax	1.5
San Francisco, CA	Energy Commission tax	¢/kWh
Seattle, WA	State utility tax	3.8734
	Seattle occupation tax	6

TAXES APPLICABLE TO GENERAL SERVICE

On April 1, 2021

Tax	% (or other)	Applicable
Canadian Cities		
Montréal, QC	Goods and services tax	5
	Québec sales tax	9.975
Calgary, AB	Goods and services tax	5
Charlottetown, PE	Harmonized sales tax	15
Edmonton, AB	Goods and services tax	5
Halifax, NS	Harmonized sales tax	15
Moncton, NB	Harmonized sales tax	15
Ottawa, ON	Harmonized sales tax	13
Regina, SK	Municipal tax	10
	Provincial sales tax	6
	Carbon levy	¢/kWh
	Goods and services tax	5
St. John's, NL	Harmonized sales tax	15
Toronto, ON	Harmonized sales tax	13
Vancouver, BC	Goods and services tax	5
Winnipeg, MB	Provincial sales tax	7
		1.4
	Municipal tax	5
		1
	Goods and services tax	5
American Cities		
Boston, MA	State sales tax	6.25
Chicago, IL	State tax	¢/kWh
	Municipal tax	¢/kWh
Detroit, MI	State sales tax	6
	City of Detroit utility users' tax	5
Houston, TX	State tax	6.25
	Municipal tax	1
	Transit tax	1
Miami, FL	Gross receipts tax	2.5641
	Franchise fee	6.006
	Municipal tax	10
	State sales tax	6.95
	Local tax	1
Nashville, TN	State sales tax	7

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

TAXES APPLICABLE TO GENERAL SERVICE (cont'd)

On April 1, 2021

	Tax	% (or other)	Applicable
New York, NY	Commodity gross receipts tax	2.4066	To commodity component
	Delivery gross receipts tax	2.4041	To other components
	Sales tax	8.875	To base amount of bill + gross receipts tax
Portland, OR	Multnomah County business income tax	0.05	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
	Seattle occupation tax	6	Tax included in rate schedule prices

TAXES APPLICABLE TO INDUSTRIAL SERVICE

On April 1, 2021

Tax	% (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
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	7 To base amount of bill (industries other than mining and manufacturing)
		1.4 To base amount of bill (mining and manufacturing companies)
	Municipal tax	5 To base amount of bill (heating other than electric)
		1 To base amount of bill (electric heating)
	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 Tax varies by energy block
	Municipal tax	\$/kWh Tax varies by energy block
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
Miami, FL	Gross receipts tax	2.5641 To base amount of bill
	Franchise fee	6.006 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

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

TAXES APPLICABLE TO INDUSTRIAL SERVICE (cont'd)

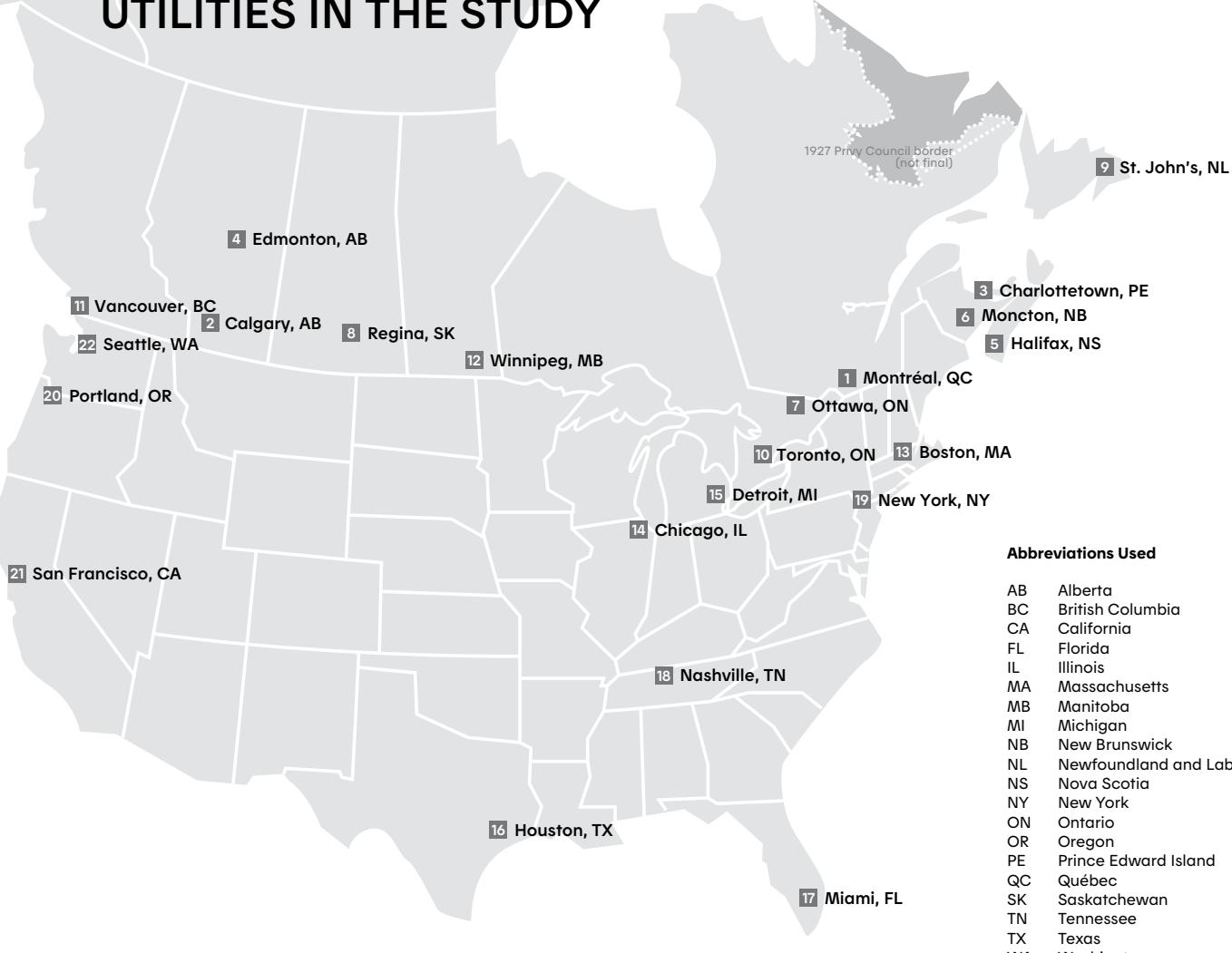
On April 1, 2021

	Tax	% (or other)	Applicable
New York, NY	Commodity gross receipts tax	2.4066	To commodity component
	Delivery gross receipts tax	2.4041	To other components
	Sales tax	8.875	To base amount of bill + gross receipts tax
Portland, OR	Multnomah County business income tax	0.05	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
	Seattle occupation tax	6	Tax included in rate schedule prices

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Appendix **Utilities in the Study**

UTILITIES IN THE STUDY



Abbreviations Used

AB	Alberta
BC	British Columbia
CA	California
FL	Florida
IL	Illinois
MA	Massachusetts
MB	Manitoba
MI	Michigan
NB	New Brunswick
NL	Newfoundland and Labrador
NS	Nova Scotia
NY	New York
ON	Ontario
OR	Oregon
PE	Prince Edward Island
QC	Québec
SK	Saskatchewan
TN	Tennessee
TX	Texas
WA	Washington

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)
- 10- Newfoundland Power
(all other customer categories)
- 11- Toronto Hydro
- 12- BC Hydro
- 13- Manitoba Hydro

AMERICAN UTILITIES

- 14- Commonwealth Edison
- 15- DTE Electric
- 16- CenterPoint Energy
- 17- Florida Power and Light
- 18- Nashville Electric Service
- 19- Consolidated Edison
- 20- Pacific Power and Light
- 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 principle of unbundling, the company's electricity generation, transmission and distribution lines of business are managed by separate structural units: the Groupe – Innovation, production, santé, sécurité et environnement (the "Generator"); the Groupe – TransÉnergie et équipement (the "Transmission Provider") and the Groupe – Distribution, approvisionnement et services partagés (the "Distributor").

The *Act respecting the Régie de l'énergie* established an annual maximum heritage pool of 165 TWh that the Generator must supply to the Distributor. The Distributor also purchases electricity on the market, primarily through calls for tenders. 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 all-item Consumer Price Index for Québec. The large-power industrial rate (Rate L) is exempt from this indexation.

Since December 2019, Hydro-Québec's rates have been subject to *An Act to simplify the process for establishing electricity distribution rates*. Under this act, all rates were frozen from April 1, 2020, to March 31, 2021. From 2021 to 2025, rates will be adjusted according to changes in the annual average Consumer Price Index for Québec with the exception of Rate L, which will be set by the Régie de l'énergie, taking into account the competitiveness of the rate and cross-subsidization.

As a result, Rate L was indexed by 0.8% on April 1, 2021, while all other rates were indexed by 1.3%.

Activities: Generation, transmission and distribution

Installed capacity: 37,231 MW

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

Number of accounts: About 4.4 million residential, commercial, institutional and industrial customer accounts and ten municipal systems, including one regional cooperative

Distribution regulator: Régie de l'énergie [Québec energy board]

Wholesale market: Open

Retail market: –

ENMAX

Calgary, Alberta

Activities: Generation, transmission and distribution

Installed capacity: 1,512 MW

Main sources: Natural gas (86%) and wind (14%)

Number of accounts: More than 690,000

Distribution regulator: Alberta Utilities Commission

Wholesale market: Open

Retail market: Open

MARITIME ELECTRIC

Charlottetown, Prince Edward Island

Activities: Distribution

Installed capacity: About 145 MW for reserve purposes

Main sources: Purchases from NB Power and PEI Energy Corporation

Number of accounts: About 84,000

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 600,000 customers in all, throughout Alberta (including more than 400,000 in Edmonton) and in the Collingwood region of Ontario

Distribution regulator: Alberta Utilities Commission

Wholesale market: Open

Retail market: Open

NOVA SCOTIA POWER

Halifax, Nova Scotia

Activities: Generation, transmission and distribution

Installed capacity: More than 2,400 MW

Main sources: Coal, petroleum coke, wind, hydropower and other

Number of accounts: More than 520,000 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: Over 400,000 direct and indirect customers

Distribution regulator: New Brunswick Energy and Utilities Board

Wholesale market: -

Retail market: -

HYDRO OTTAWA

Ottawa, Ontario

Activities: Distribution

Installed capacity: -

Main sources: Purchases from Ontario Power Generation

Number of accounts: About 340,000

Distribution regulator: Ontario Energy Board

Wholesale market: Open

Retail market: Open, but electricity supply rate regulated by Ontario Energy Board

SASKPOWER

Regina, Saskatchewan

Activities: Generation, transmission and distribution

Installed capacity: 4,893 MW

Main sources: Natural gas (45%), coal (31%), hydropower (18%), wind (5%) and other (1%)

Number of accounts: About 540,000

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: 1,763 MW

Main sources: Hydroelectric (80%) and fuel-fired (20%) generating stations

Number of accounts: More than 38,000 direct customers

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 269,000 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 785,000

Distribution regulator: Ontario Energy Board

Wholesale market: Open

Retail market: Open, but electricity supply rate regulated by Ontario Energy Board

BC HYDRO

Vancouver, British Columbia

Activities: Generation, transmission and distribution

Installed capacity: About 12,110 MW

Main sources: Hydroelectric generating stations (about 98%)

Number of accounts: About 2.1 million

Distribution regulator: British Columbia Utilities Commission

Wholesale market: Open

Retail market: -

MANITOBA HYDRO

Winnipeg, Manitoba

Activities: Generation, transmission and distribution

Installed capacity: 5,615 MW

Main sources: Hydropower (about 96%), thermal and diesel

Number of accounts: About 593,000

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: Close to 3.1 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: Over 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: 11,084 MW

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

Number of accounts: 2.2 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: Over 2.7 million customers

Distribution regulator: Public Utility Commission of Texas

Wholesale market: Open

Retail market: Open

FLORIDA POWER AND LIGHT (FPL)

Miami, Florida

Activities: Generation, transmission and distribution

Installed capacity: Over 28,000 MW

Main sources: Nuclear, combined-cycle, coal, fuel and solar

Number of accounts: Over 5.6 million

Distribution regulator: Florida Public Service

Wholesale market: Open

Retail market: -

NASHVILLE ELECTRIC SERVICE

Nashville, Tennessee

Activities: Distribution

Installed capacity: –

Main sources: Purchases from Tennessee Valley Authority

Number of accounts: Over 410,000

Distribution regulator: Tennessee Valley Authority

Wholesale market: –

Retail market: –

PACIFIC GAS AND ELECTRIC (PG&E)

San Francisco, California

Activities: Generation, transmission and distribution

Installed capacity: 7,662 MW

Main sources: Purchases from California ISO and fuel-fired, hydroelectric, solar and other generating stations

Number of accounts: 5.1 million

Distribution regulator: California Public Utilities Commission

Wholesale market: Open

Retail market: Partially open

CONSOLIDATED EDISON (ConEd)

New York, New York

Activities: Distribution

Installed capacity: –

Main sources: Purchases from New York Independent System Operator

Number of accounts: 3.5 million customers in and around New York City and Westchester County

Distribution regulator: New York State Public Service Commission

Wholesale market: Open

Retail market: Open

SEATTLE CITY LIGHT

Seattle, Washington

Activities: Generation, transmission and distribution

Installed capacity: 2,006 MW

Main sources: Purchases from Bonneville Power Administration and hydroelectric, wind, biogas and other generating stations

Number of accounts: More than 470,000 customers in Seattle and surrounding communities

Distribution regulator: City of Seattle

Wholesale market: Open

Retail market: –

PACIFIC POWER AND LIGHT

Portland, Oregon

Activities: Generation, transmission and distribution

Installed capacity: 11,574 MW

Main sources: Coal, natural gas, hydropower, wind and geothermal

Number of accounts: More than 780,000 customers across three states (Oregon, Washington and California)

Distribution regulator: Public Utility Commission of Oregon

Wholesale market: Open

Retail market: Partially open

Information sources

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

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