



2020

Comparison of Electricity Prices in Major North American Cities

Rates in effect April 1, 2020

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INTRODUCTION

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

This report details the principal conclusions of this comparative analysis of prices in effect on April 1, 2020. 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, 2020.

2) Average prices excluding taxes.

3) In Canadian currency.

MAJOR NORTH AMERICAN CITIES

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



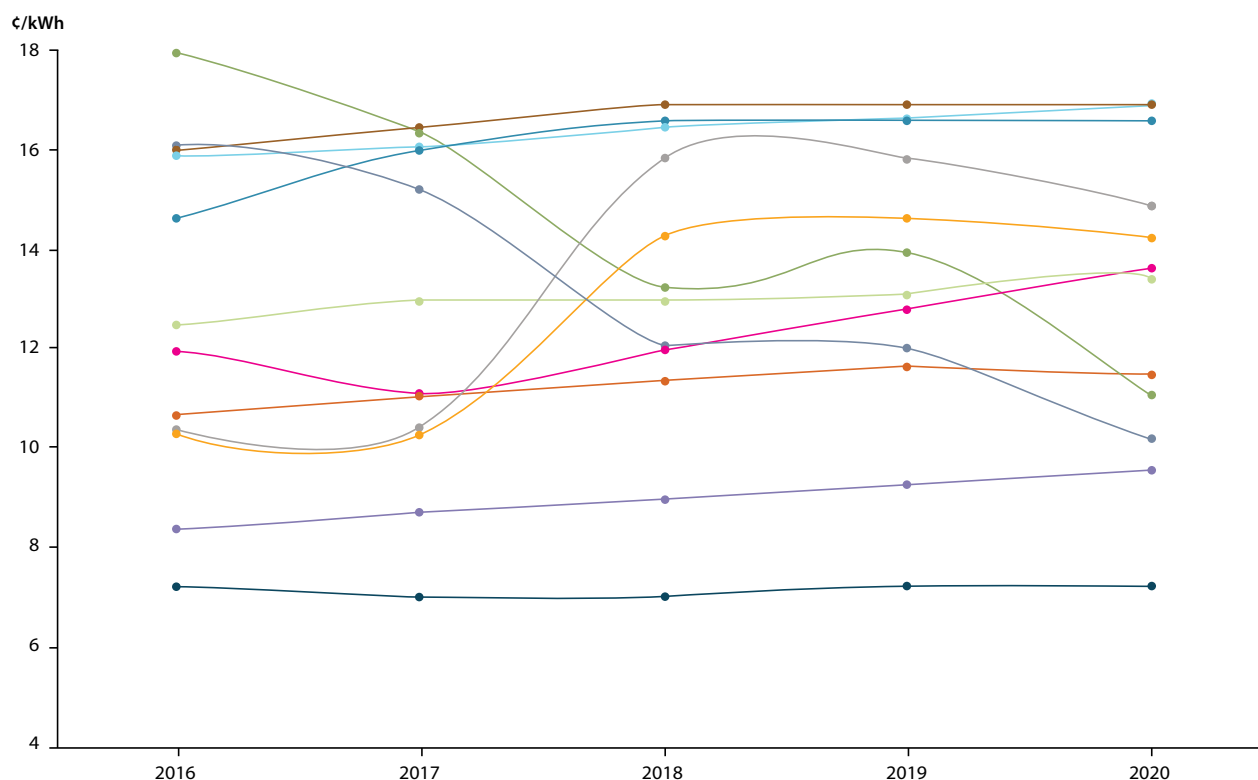
1) For a monthly consumption of 3,060,000 kWh and a power demand of 5,000 kW; rates in effect April 1, 2020.

2) Average prices excluding taxes.

3) In Canadian currency.

MAJOR CANADIAN CITIES

OVERVIEW OF CHANGES IN AVERAGE PRICES FOR RESIDENTIAL CUSTOMERS (IN ¢/kWh) – 2016 TO 2020^{1,2,3,4}



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

	2016	2017	2018	2019	2020
Canadian Cities					
● Montréal, QC	7.23	7.07	7.13	7.30	7.30
● Calgary, AB	10.40	10.45	15.79	15.74	14.83
● Charlottetown, PE	16.02	16.42	16.83	16.83	16.83
● Edmonton, AB	10.37	10.34	14.35	14.68	14.29
● Halifax, NS	15.88	16.15	16.41	16.69	16.89
● Moncton, NB	12.50	12.97	12.97	13.10	13.42
● Ottawa, ON	16.15	15.21	12.16	12.04	10.29
● Regina, SK	14.65	15.94	16.51	16.51	16.51
● St. John's, NL	11.96	11.15	12.03	12.80	13.60
● Toronto, ON	17.81	16.32	13.24	13.89	11.10
● Vancouver, BC	10.70	11.08	11.42	11.62	11.51
● Winnipeg, MB	8.43	8.71	9.00	9.37	9.60

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

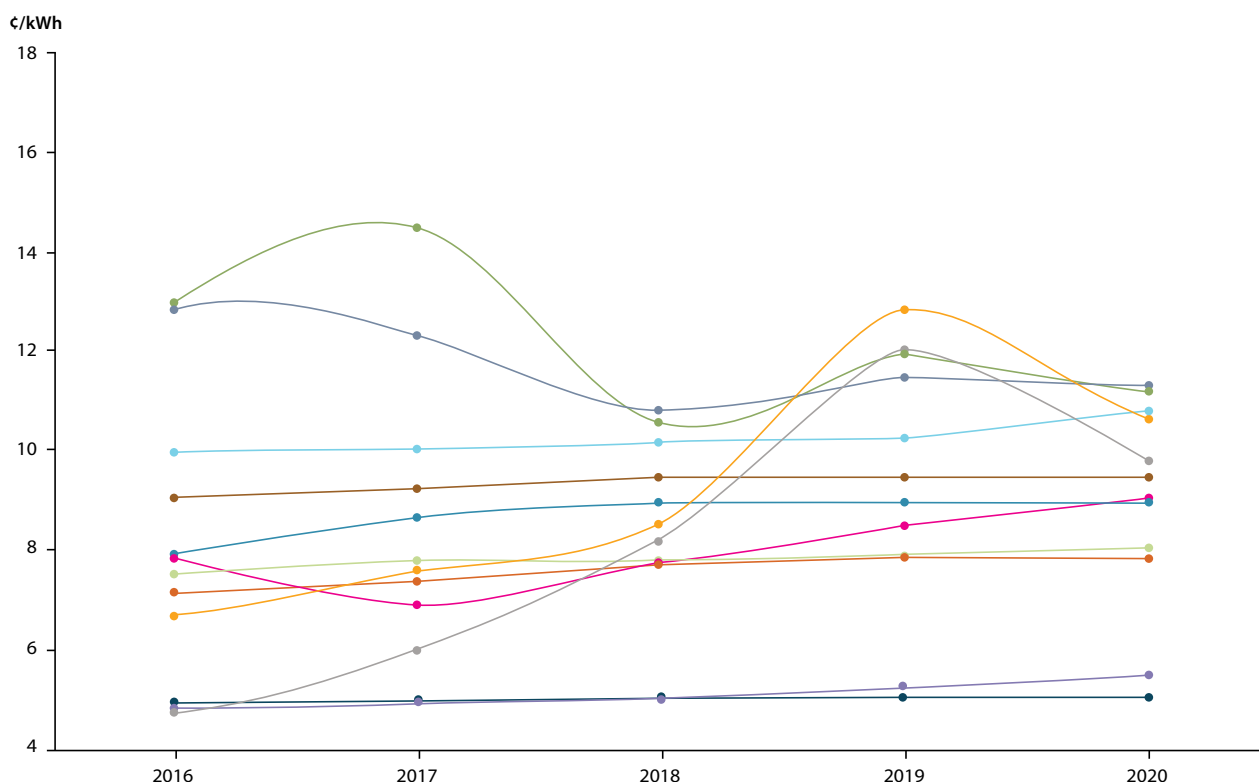
2) In Canadian currency.

3) Data from *Comparison of Electricity Prices in Major North American Cities* publications, Hydro-Québec, 2016-2020.

4) Average prices excluding taxes.

MAJOR CANADIAN CITIES

OVERVIEW OF CHANGES IN AVERAGE PRICES FOR LARGE-POWER CUSTOMERS (IN ¢/kWh) – 2016 TO 2020^{1,2,3,4}



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

	2016	2017	2018	2019	2020
Canadian Cities					
● Montréal, QC	5.17	5.18	5.18	5.20	5.20
● Calgary, AB	4.82	6.09	8.32	11.97	9.73
● Charlottetown, PE	9.12	9.31	9.51	9.51	9.51
● Edmonton, AB	6.78	7.68	8.53	12.80	10.64
● Halifax, NS	10.02	10.14	10.26	10.39	10.72
● Moncton, NB	7.60	7.86	7.86	7.93	8.13
● Ottawa, ON	12.91	12.46	10.80	11.57	11.36
● Regina, SK	7.97	8.67	8.98	8.98	8.98
● St. John's, NL	7.88	6.95	7.84	8.52	9.12
● Toronto, ON	13.04	14.55	10.66	11.91	11.23
● Vancouver, BC	7.35	7.54	7.77	7.91	7.84
● Winnipeg, MB	4.85	5.01	5.18	5.39	5.53

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, 2016-2020.

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, 2020. The most recent rate adjustments applied by the Canadian utilities in the study between April 1, 2019, and April 1, 2020, 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.

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, 2020, by customer category; those which may be partially or fully refundable are also indicated.

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 offer 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, taxes and rates 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, 2020.

TIME-OF-USE RATES

The rates offered 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 adjustment clauses that allow them to adjust their customers' electricity bills according to changes in 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, 2019, and April 1, 2020, even though base rates remained the same. Appendix B lists the adjustment clauses taken into account when calculating bills. In the midst of the COVID-19 pandemic, some utilities offered financial aid to their customers. Adjustment clauses and rate relief measures that are rolled into base rates and apply to certain customer categories have been considered.

EXCHANGE RATE

The exchange rate used to convert bills in U.S. dollars into Canadian dollars is \$0.7034 (CA\$1 = US\$0.7034), the rate in effect at noon on April 1, 2020. The Canadian dollar had thus depreciated by 6.19% relative to the U.S. dollar on April 1, 2019.

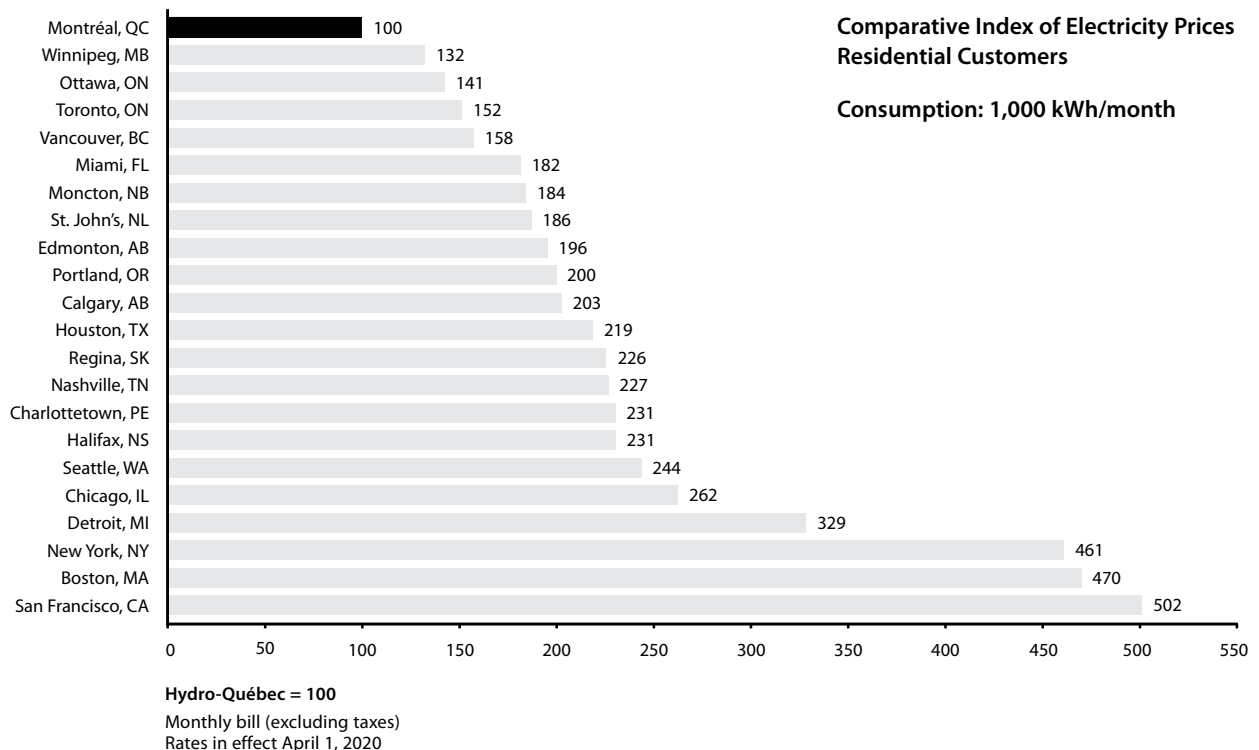
HIGHLIGHTS

The *Electricity Rates* effective April 1, 2019 sets out Hydro-Québec's rates, as approved by the Régie de l'énergie (the Québec energy board) in accordance with Decision D-2019-037. 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 kWh, Montréal is once again in *first* place. Figure 1 illustrates the results of this comparison.

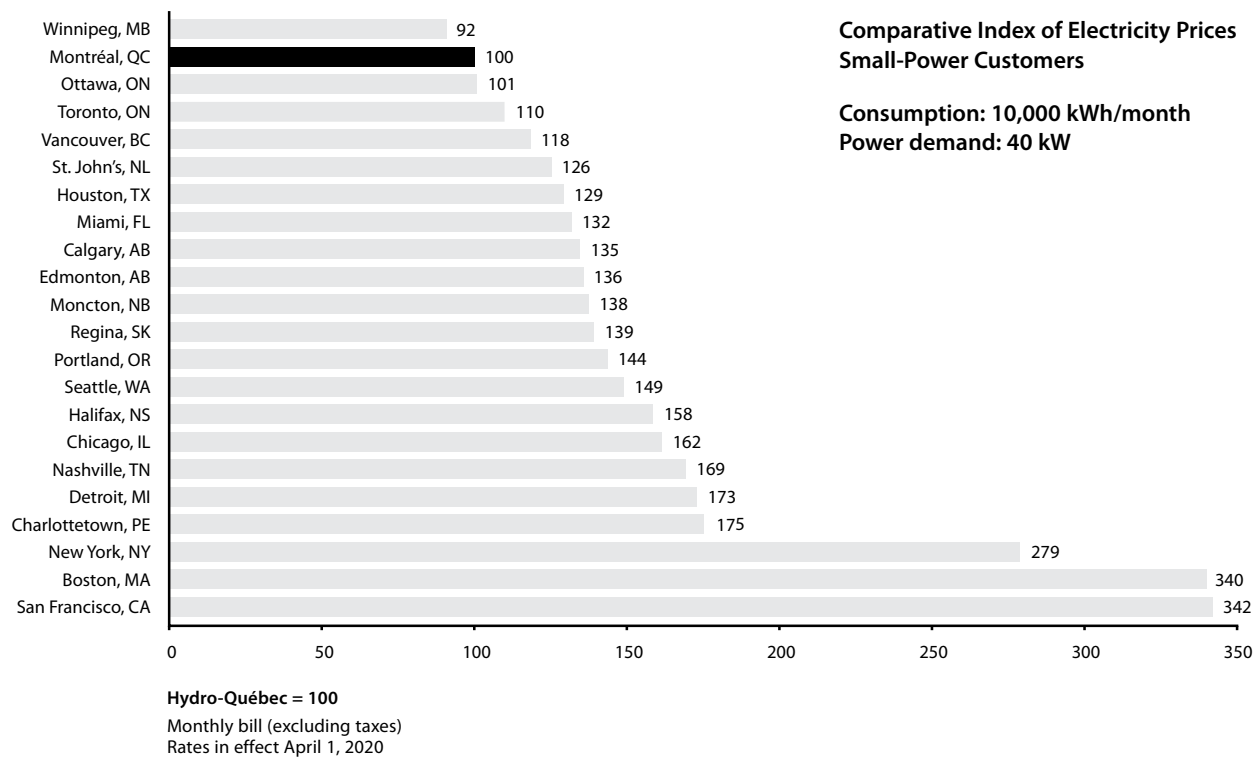
FIGURE 1



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 kW. Montréal is in *second* place, as was the case for the last two years. Figure 2 shows the comparative index of electricity prices.

FIGURE 2

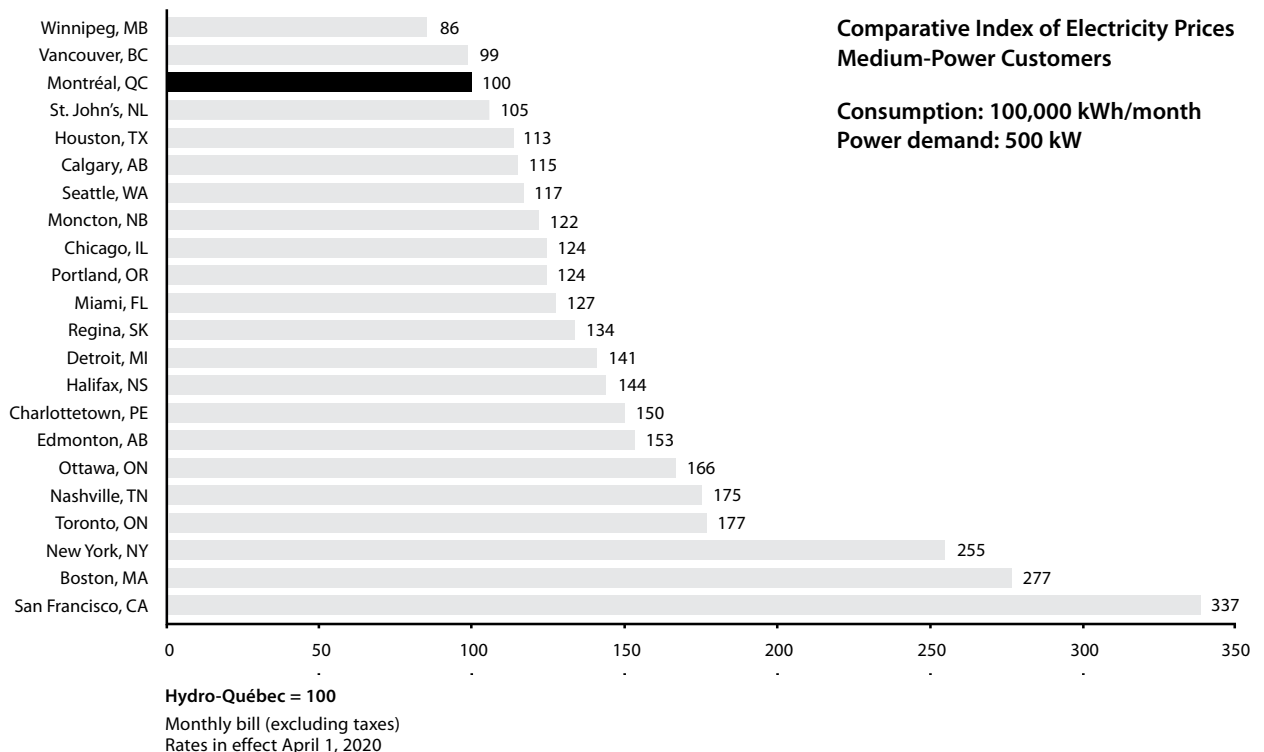


MEDIUM-POWER CUSTOMERS (100 TO 5,000 kW)

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.

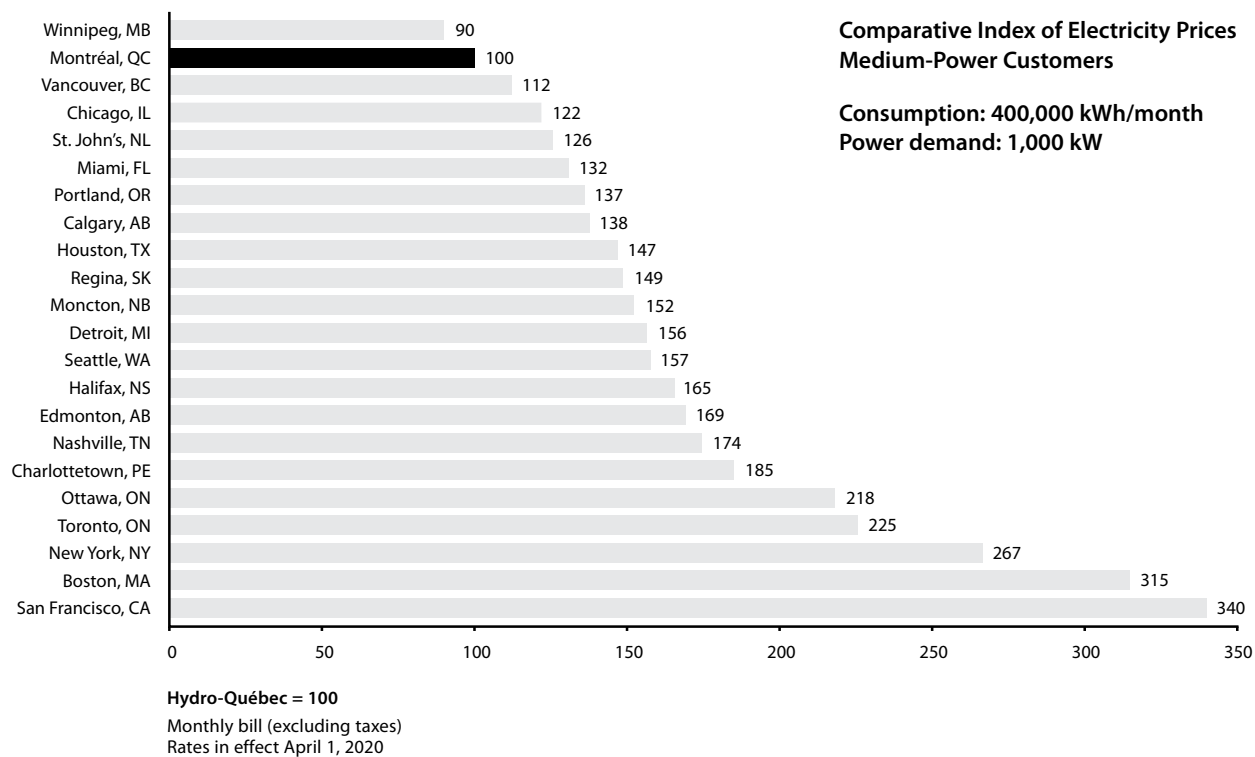
For medium-power customers with a monthly consumption of 100,000 kWh and a power demand of 500 kW, Montréal remains in *third* place.

FIGURE 3



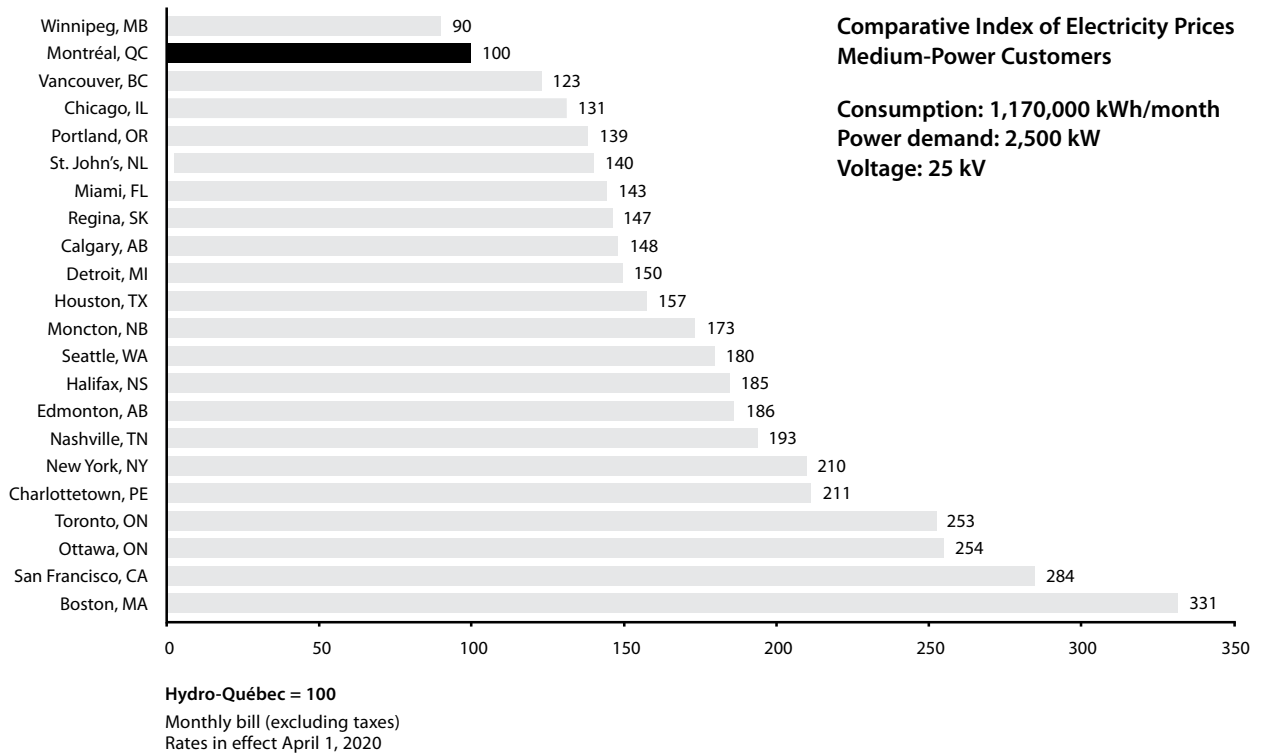
For customers with a monthly consumption of 400,000 kWh and a power demand of 1,000 kW, Montréal is in *second* place.

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.

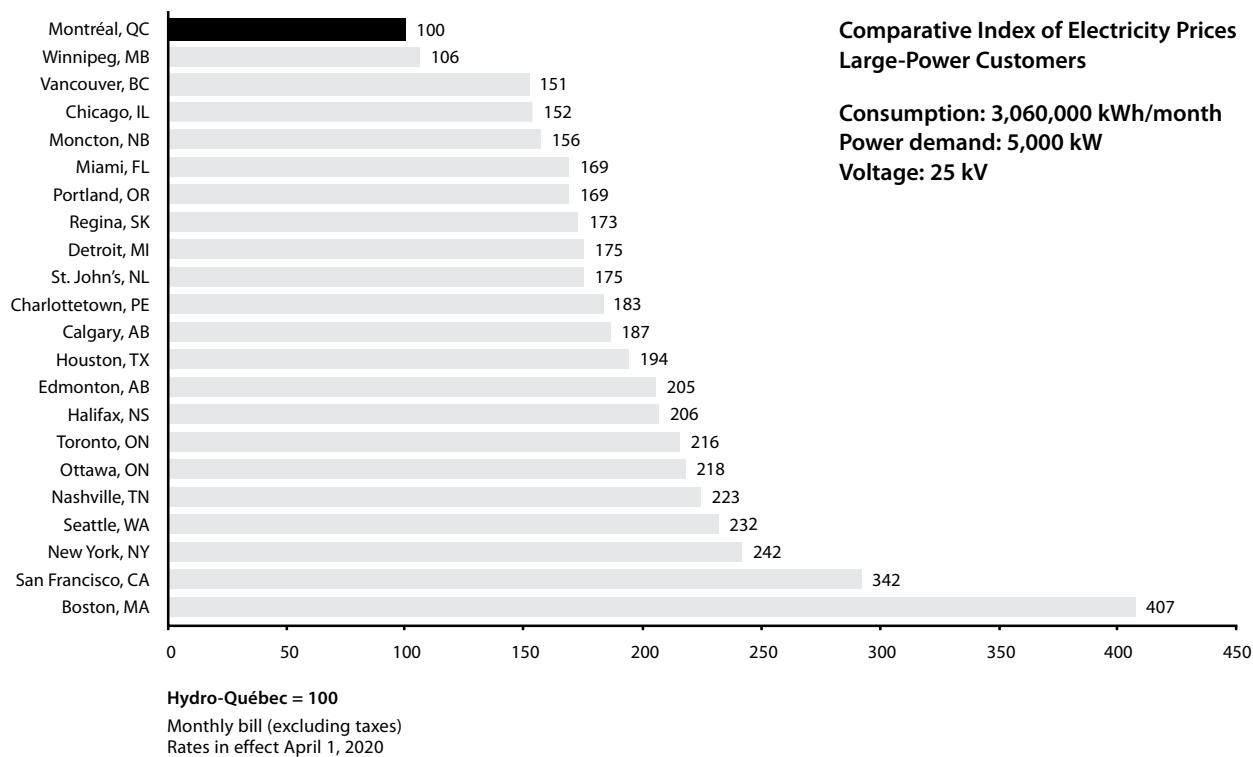
FIGURE 5



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

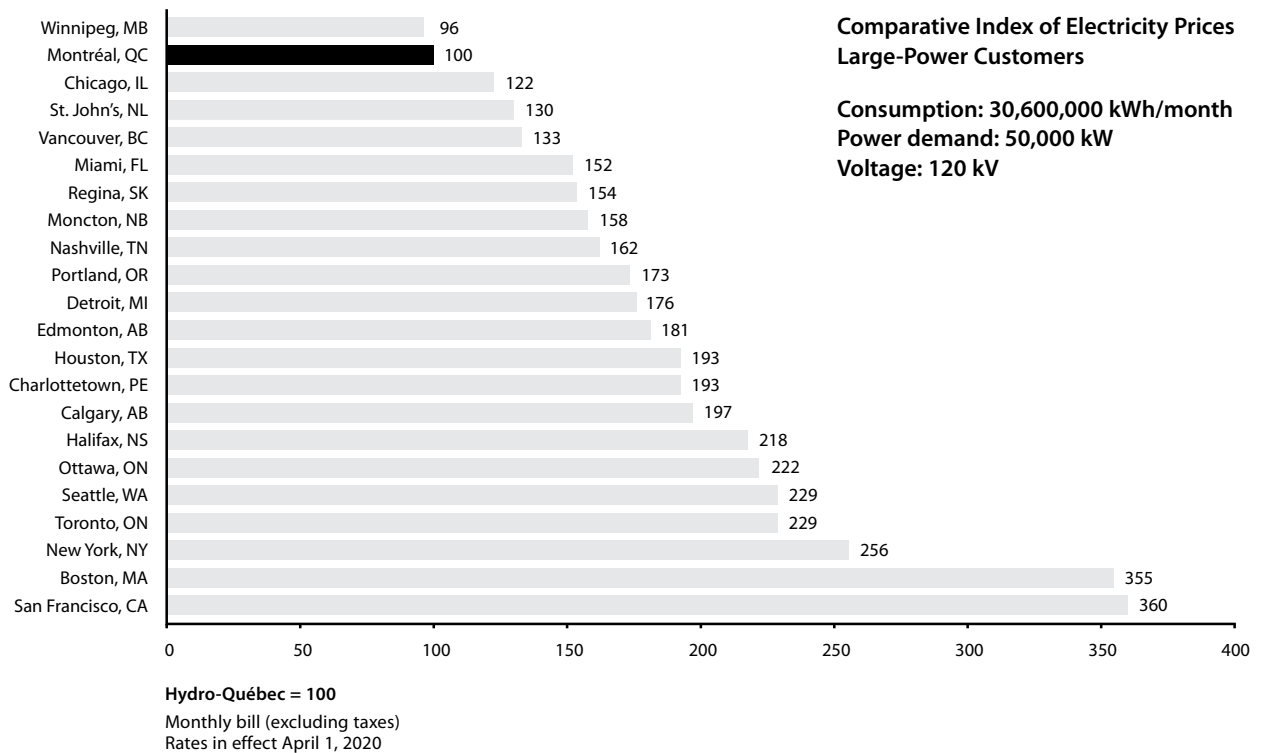
Figure 6 illustrates the comparative index of electricity prices for large-power customers with a monthly consumption of 3,060,000 kWh and a power demand of 5,000 kW. Montréal tops the list for a second year in a row.

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 Tables

Summary Tables (excluding taxes)

Monthly Bills

Average Prices

Comparative Index

MONTHLY BILLS ON APRIL 1, 2020

(in CA\$)

Summary Table (excluding taxes)

	Residential	Small Power	Medium Power			Large Power	
Power demand		40 kW	500 kW	1,000 kW	2,500 kW ¹	5,000 kW ¹	50,000 kW ²
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	72.99	1,002.33	12,195.00	32,230.00	79,924.50	159,075.00	1,505,850.00
Calgary, AB	148.31	1,350.11	14,079.52	44,429.55	118,375.55	297,707.50	2,969,606.53
Charlottetown, PE ³	168.27	1,753.67	18,317.47	59,652.47	168,655.47	290,984.00	2,909,840.00
Edmonton, AB ⁴	142.93	1,360.54	18,658.68	54,379.98	148,795.06	325,440.68	2,725,951.46
Halifax, NS	168.88	1,581.90	17,524.50	53,043.00	147,637.65	327,880.89	3,278,832.84
Moncton, NB	134.19	1,387.86	14,918.86	48,913.86	138,496.86	248,833.17	2,373,780.00
Ottawa, ON	102.89	1,014.79	20,228.09	70,355.31	203,138.67	347,517.36	3,338,089.48
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	1,258.75	12,772.12	40,483.36	111,861.95	278,943.31	1,958,788.00
Toronto, ON ³	110.96	1,099.75	21,609.00	72,385.46	201,897.81	343,518.00	3,446,999.03
Vancouver, BC	115.13	1,180.85	12,118.05	36,228.05	98,621.68	239,787.43	1,997,490.89
Winnipeg, MB	96.02	921.29	10,433.71	29,049.61	71,664.42	169,126.82	1,443,034.80
American Cities							
Boston, MA	342.81	3,407.75	33,755.90	101,604.16	264,639.98	647,153.10	5,346,385.31
Chicago, IL	191.27	1,625.19	15,068.40	39,375.19	104,902.58	241,828.64	1,839,639.04
Detroit, MI ³	240.18	1,737.09	17,144.81	50,354.20	120,139.54	277,740.75	2,655,707.07
Houston, TX ³	159.56	1,290.62	13,811.12	47,407.98	125,633.75	308,656.17	2,901,963.87
Miami, FL ³	133.13	1,320.63	15,533.31	42,632.33	114,254.69	268,115.05	2,282,114.83
Nashville, TN	165.99	1,690.85	21,299.08	56,061.55	154,049.36	354,704.40	2,439,827.23
New York, NY ³	336.76	2,797.59	31,142.86	86,128.15	167,980.89	385,599.17	3,854,144.43
Portland, OR ³	146.15	1,440.56	15,114.40	44,131.46	111,039.04	268,345.35	2,600,538.88
San Francisco, CA ³	366.58	3,428.94	41,084.00	109,726.65	227,243.32	543,857.46	5,419,657.52
Seattle, WA	178.28	1,497.05	14,266.76	50,615.16	143,704.97	368,406.60	3,445,048.95
AVERAGE	173.74	1,615.73	18,519.25	55,327.98	142,722.59	316,727.69	2,865,739.25

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, 2020

(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 kW ²	5,000 kW ²	50,000 kW ³
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	7.30	10.02	12.20	8.06	6.83	5.20	4.92
Calgary, AB	14.83	13.50	14.08	11.11	10.12	9.73	9.70
Charlottetown, PE ⁴	16.83	17.54	18.32	14.91	14.41	9.51	9.51
Edmonton, AB ⁵	14.29	13.61	18.66	13.59	12.72	10.64	8.91
Halifax, NS	16.89	15.82	17.52	13.26	12.62	10.72	10.72
Moncton, NB	13.42	13.88	14.92	12.23	11.84	8.13	7.76
Ottawa, ON	10.29	10.15	20.23	17.59	17.36	11.36	10.91
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	6.40
Toronto, ON ⁴	11.10	11.00	21.61	18.10	17.26	11.23	11.26
Vancouver, BC	11.51	11.81	12.12	9.06	8.43	7.84	6.53
Winnipeg, MB	9.60	9.21	10.43	7.26	6.13	5.53	4.72
American Cities							
Boston, MA	34.28	34.08	33.76	25.40	22.62	21.15	17.47
Chicago, IL	19.13	16.25	15.07	9.84	8.97	7.90	6.01
Detroit, MI ⁴	24.02	17.37	17.14	12.59	10.27	9.08	8.68
Houston, TX ⁴	15.96	12.91	13.81	11.85	10.74	10.09	9.48
Miami, FL ⁴	13.31	13.21	15.53	10.66	9.77	8.76	7.46
Nashville, TN	16.60	16.91	21.30	14.02	13.17	11.59	7.97
New York, NY ⁴	33.68	27.98	31.14	21.53	14.36	12.60	12.60
Portland, OR ⁴	14.62	14.41	15.11	11.03	9.49	8.77	8.50
San Francisco, CA ⁴	36.66	34.29	41.08	27.43	19.42	17.77	17.71
Seattle, WA	17.83	14.97	14.27	12.65	12.28	12.04	11.26
AVERAGE	17.37	16.16	18.52	13.83	12.20	10.35	9.37

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, 2020

(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 kW ¹	5,000 kW ¹	50,000 kW ²
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	203	135	115	138	148	187	197
Charlottetown, PE ³	231	175	150	185	211	183	193
Edmonton, AB ⁴	196	136	153	169	186	205	181
Halifax, NS	231	158	144	165	185	206	218
Moncton, NB	184	138	122	152	173	156	158
Ottawa, ON	141	101	166	218	254	218	222
Regina, SK	226	139	134	149	147	173	154
St. John's, NL ⁵	186	126	105	126	140	175	130
Toronto, ON ³	152	110	177	225	253	216	229
Vancouver, BC	158	118	99	112	123	151	133
Winnipeg, MB	132	92	86	90	90	106	96
American Cities							
Boston, MA	470	340	277	315	331	407	355
Chicago, IL	262	162	124	122	131	152	122
Detroit, MI ³	329	173	141	156	150	175	176
Houston, TX ³	219	129	113	147	157	194	193
Miami, FL ³	182	132	127	132	143	169	152
Nashville, TN	227	169	175	174	193	223	162
New York, NY ³	461	279	255	267	210	242	256
Portland, OR ³	200	144	124	137	139	169	173
San Francisco, CA ³	502	342	337	340	284	342	360
Seattle, WA	244	149	117	157	180	232	229
AVERAGE	238	161	152	172	179	199	190

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.

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02

Detailed Tables

Summary Tables (including taxes)

Monthly Bills

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MONTHLY BILLS ON APRIL 1, 2020

(in CA\$)

Summary Table (including taxes)

	Residential	Small Power	Medium Power			Large Power	
Power demand		40 kW	500 kW	1,000 kW	2,500 kW ¹	5,000 kW ¹	50,000 kW ²
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	83.92	1,152.43	14,021.20	37,056.44	91,893.20	182,896.48	1,731,351.04
Calgary, AB	155.73	1,417.62	14,783.49	46,651.03	124,294.33	312,592.87	3,118,086.86
Charlottetown, PE ³	193.51	2,016.72	21,065.09	68,600.34	193,953.79	334,631.60	3,346,316.00
Edmonton, AB ⁴	150.08	1,428.57	19,591.61	57,098.98	156,234.81	341,712.72	2,862,249.04
Halifax, NS	177.32	1,819.19	20,153.18	60,999.45	169,783.30	377,063.02	3,770,657.77
Moncton, NB	154.32	1,596.04	17,156.69	56,250.94	159,271.39	286,158.15	2,729,847.00
Ottawa, ON	122.50	1,208.22	22,857.75	79,501.50	229,546.70	392,694.62	3,772,041.12
Regina, SK	195.86	1,760.16	20,480.57	60,807.77	149,247.10	351,624.60	2,987,394.85
St. John's, NL ⁵	156.38	1,447.56	14,687.94	46,555.86	128,641.24	320,784.81	2,252,606.20
Toronto, ON ³	132.11	1,309.38	24,418.17	81,795.57	228,144.52	388,175.34	3,895,108.91
Vancouver, BC	122.89	1,239.89	12,723.95	38,039.45	103,552.76	251,776.80	2,097,365.43
Winnipeg, MB	110.06	1,080.21	12,233.53	34,060.66	80,156.65	189,168.35	1,614,034.43
American Cities							
Boston, MA	342.81	3,611.68	35,775.10	107,592.24	280,120.60	684,829.51	5,652,827.77
Chicago, IL	204.89	1,735.57	16,073.60	43,186.82	115,620.83	268,650.20	2,072,719.70
Detroit, MI ³	261.80	1,928.17	19,030.74	55,893.16	133,354.89	308,292.24	2,947,834.84
Houston, TX ³	161.16	1,392.65	14,888.20	51,186.83	135,804.72	333,707.15	3,137,660.75
Miami, FL ³	157.51	1,671.71	19,701.26	53,799.20	143,991.46	337,220.37	2,844,829.94
Nashville, TN	165.99	1,809.21	22,790.02	59,985.85	164,832.81	379,533.70	2,610,615.14
New York, NY ³	366.91	3,119.64	34,727.97	96,041.80	187,315.91	429,981.77	4,297,757.66
Portland, OR ³	148.25	1,461.42	15,334.26	44,769.50	112,692.73	272,356.89	2,639,507.39
San Francisco, CA ³	367.01	3,604.65	43,180.85	115,383.58	239,104.50	572,355.45	5,703,691.60
Seattle, WA	178.28	1,497.05	14,266.76	50,615.16	143,704.97	368,406.60	3,445,048.95
AVERAGE	186.79	1,786.72	20,451.90	61,176.01	157,784.69	349,300.60	3,160,434.20

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, 2020

(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 kW ²	5,000 kW ²	50,000 kW ³
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	8.39	11.52	14.02	9.26	7.85	5.98	5.66
Calgary, AB	15.57	14.18	14.78	11.66	10.62	10.22	10.19
Charlottetown, PE ⁴	19.35	20.17	21.07	17.15	16.58	10.94	10.94
Edmonton, AB ⁵	15.01	14.29	19.59	14.27	13.35	11.17	9.35
Halifax, NS	17.73	18.19	20.15	15.25	14.51	12.32	12.32
Moncton, NB	15.43	15.96	17.16	14.06	13.61	9.35	8.92
Ottawa, ON	12.25	12.08	22.86	19.88	19.62	12.83	12.33
Regina, SK	19.59	17.60	20.48	15.20	12.76	11.49	9.76
St. John's, NL ⁶	15.64	14.48	14.69	11.64	10.99	10.48	7.36
Toronto, ON ⁴	13.21	13.09	24.42	20.45	19.50	12.69	12.73
Vancouver, BC	12.29	12.40	12.72	9.51	8.85	8.23	6.85
Winnipeg, MB	11.01	10.80	12.23	8.52	6.85	6.18	5.27
American Cities							
Boston, MA	34.28	36.12	35.78	26.90	23.94	22.38	18.47
Chicago, IL	20.49	17.36	16.07	10.80	9.88	8.78	6.77
Detroit, MI ⁴	26.18	19.28	19.03	13.97	11.40	10.07	9.63
Houston, TX ⁴	16.12	13.93	14.89	12.80	11.61	10.91	10.25
Miami, FL ⁴	15.75	16.72	19.70	13.45	12.31	11.02	9.30
Nashville, TN	16.60	18.09	22.79	15.00	14.09	12.40	8.53
New York, NY ⁴	36.69	31.20	34.73	24.01	16.01	14.05	14.04
Portland, OR ⁴	14.82	14.61	15.33	11.19	9.63	8.90	8.63
San Francisco, CA ⁴	36.70	36.05	43.18	28.85	20.44	18.70	18.64
Seattle, WA	17.83	14.97	14.27	12.65	12.28	12.04	11.26
AVERAGE	18.68	17.87	20.45	15.29	13.49	11.42	10.33

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, 2020

(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 kW ¹	5,000 kW ¹	50,000 kW ²
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	186	123	105	126	135	171	180
Charlottetown, PE ³	231	175	150	185	211	183	193
Edmonton, AB ⁴	179	124	140	154	170	187	165
Halifax, NS	211	158	144	165	185	206	218
Moncton, NB	184	138	122	152	173	156	158
Ottawa, ON	146	105	163	215	250	215	218
Regina, SK	233	153	146	164	162	192	173
St. John's, NL ⁵	186	126	105	126	140	175	130
Toronto, ON ³	157	114	174	221	248	212	225
Vancouver, BC	146	108	91	103	113	138	121
Winnipeg, MB	131	94	87	92	87	103	93
American Cities							
Boston, MA	409	313	255	290	305	374	326
Chicago, IL	244	151	115	117	126	147	120
Detroit, MI ³	312	167	136	151	145	169	170
Houston, TX ³	192	121	106	138	148	182	181
Miami, FL ³	188	145	141	145	157	184	164
Nashville, TN	198	157	163	162	179	208	151
New York, NY ³	437	271	248	259	204	235	248
Portland, OR ³	177	127	109	121	123	149	152
San Francisco, CA ³	437	313	308	311	260	313	329
Seattle, WA	212	130	102	137	156	201	199
AVERAGE	223	155	146	165	172	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.

03

Detailed Tables

Residential

Monthly Bills

Average Prices

Comparative Index

RESIDENTIAL

Monthly Bills on April 1, 2020 (in CA\$)

Consumption	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
Canadian Cities					
Montréal, QC	50.19	57.79	72.99	160.19	253.99
Calgary, AB	101.77	117.28	148.31	272.42	396.54
Charlottetown, PE ¹	114.38	132.35	168.27	311.97	426.17
Edmonton, AB	99.32	113.85	142.93	259.26	375.59
Halifax, NS	109.61	129.37	168.88	326.93	484.98
Moncton, NB	92.27	106.24	134.19	245.99	357.79
Ottawa, ON	71.84	82.19	102.89	185.69	268.49
Regina, SK	111.72	129.50	165.07	307.35	449.63
St. John's, NL ²	90.93	105.94	135.99	256.16	376.34
Toronto, ON ¹	78.93	89.61	110.96	196.37	281.79
Vancouver, BC	64.86	80.06	115.13	255.43	395.73
Winnipeg, MB	63.25	74.17	96.02	183.42	270.82
American Cities					
Boston, MA	217.99	259.63	342.81	675.68	1,008.54
Chicago, IL	128.95	149.72	191.27	357.47	523.67
Detroit, MI ¹	150.16	180.17	240.18	480.25	720.31
Houston, TX ¹	116.79	135.76	159.56	311.35	463.14
Miami, FL ¹	87.62	102.79	133.13	283.70	434.27
Nashville, TN	115.24	132.16	165.99	301.33	442.36
New York, NY ¹	218.94	258.21	336.76	650.92	965.08
Portland, OR ¹	96.95	113.35	146.15	319.64	493.13
San Francisco, CA ¹	203.94	256.54	366.58	1,002.91	1,740.21
Seattle, WA	107.59	131.15	178.28	366.80	555.32
AVERAGE	113.33	133.54	173.74	350.51	531.09

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, 2020

(in ¢/kWh)¹

Consumption	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
Canadian Cities					
Montréal, QC	8.03	7.71	7.30	8.01	8.47
Calgary, AB	16.28	15.64	14.83	13.62	13.22
Charlottetown, PE ²	18.30	17.65	16.83	15.60	14.21
Edmonton, AB	15.89	15.18	14.29	12.96	12.52
Halifax, NS	17.54	17.25	16.89	16.35	16.17
Moncton, NB	14.76	14.17	13.42	12.30	11.93
Ottawa, ON	11.49	10.96	10.29	9.28	8.95
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	12.63	11.95	11.10	9.82	9.39
Vancouver, BC	10.38	10.67	11.51	12.77	13.19
Winnipeg, MB	10.12	9.89	9.60	9.17	9.03
American Cities					
Boston, MA	34.88	34.62	34.28	33.78	33.62
Chicago, IL	20.63	19.96	19.13	17.87	17.46
Detroit, MI ²	24.03	24.02	24.02	24.01	24.01
Houston, TX ²	18.69	18.10	15.96	15.57	15.44
Miami, FL ²	14.02	13.71	13.31	14.19	14.48
Nashville, TN	18.44	17.62	16.60	15.07	14.75
New York, NY ²	35.03	34.43	33.68	32.55	32.17
Portland, OR ²	15.51	15.11	14.62	15.98	16.44
San Francisco, CA ²	32.63	34.21	36.66	50.15	58.01
Seattle, WA	17.22	17.49	17.83	18.34	18.51
AVERAGE	18.13	17.81	17.37	17.53	17.70

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, 2020
(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	203	203	203	170	156
Charlottetown, PE ¹	228	229	231	195	168
Edmonton, AB	198	197	196	162	148
Halifax, NS	218	224	231	204	191
Moncton, NB	184	184	184	154	141
Ottawa, ON	143	142	141	116	106
Regina, SK	223	224	226	192	177
St. John's, NL ²	181	183	186	160	148
Toronto, ON ¹	157	155	152	123	111
Vancouver, BC	129	139	158	159	156
Winnipeg, MB	126	128	132	115	107
American Cities					
Boston, MA	434	449	470	422	397
Chicago, IL	257	259	262	223	206
Detroit, MI ¹	299	312	329	300	284
Houston, TX ¹	233	235	219	194	182
Miami, FL ¹	175	178	182	177	171
Nashville, TN	230	229	227	188	174
New York, NY ¹	436	447	461	406	380
Portland, OR ¹	193	196	200	200	194
San Francisco, CA ¹	406	444	502	626	685
Seattle, WA	214	227	244	229	219
AVERAGE	226	231	238	219	209

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

2) Newfoundland Power rates.

04

Detailed Tables

Small Power

Monthly Bills

Average Prices

Comparative Index

SMALL POWER

Monthly Bills on April 1, 2020
(in CA\$)

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	86.58	210.33	1,002.33	1,834.20	2,715.50
Calgary, AB	133.09	276.32	1,350.11	2,069.17	3,027.06
Charlottetown, PE ¹	157.10	377.97	1,753.67	3,021.07	4,290.47
Edmonton, AB	117.72	285.66	1,360.54	2,521.25	3,431.06
Halifax, NS	125.30	307.00	1,581.90	2,768.34	3,954.75
Moncton, NB	124.24	292.36	1,387.86	2,414.46	3,463.86
Ottawa, ON	88.81	213.95	1,014.79	2,252.54	4,958.30
Regina, SK	133.66	304.52	1,398.04	2,687.72	3,650.47
St. John's, NL ²	111.12	291.62	1,258.75	2,179.92	3,130.00
Toronto, ON ¹	105.89	239.30	1,099.75	2,360.48	5,108.60
Vancouver, BC	103.97	258.97	1,180.85	1,886.25	2,940.05
Winnipeg, MB	87.68	200.33	921.29	1,868.85	2,466.87
American Cities					
Boston, MA	253.69	647.72	3,407.75	6,547.19	8,993.75
Chicago, IL	193.21	427.19	1,625.19	2,782.76	4,005.11
Detroit, MI ¹	146.01	367.52	1,737.09	2,421.88	4,305.04
Houston, TX ¹	99.11	346.10	1,290.62	2,266.75	3,181.61
Miami, FL ¹	107.88	262.70	1,320.63	2,530.16	3,245.47
Nashville, TN	197.73	423.96	1,690.85	3,988.83	4,809.97
New York, NY ¹	268.95	847.14	2,797.59	5,569.38	6,884.72
Portland, OR ¹	135.17	317.94	1,440.56	2,436.73	3,536.43
San Francisco, CA ¹	274.73	709.26	3,428.94	5,810.82	8,278.09
Seattle, WA	112.29	299.41	1,497.05	2,168.38	3,424.16
AVERAGE	143.81	359.42	1,615.73	2,926.69	4,263.70

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, 2020

(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	11.54	10.52	10.02	13.10	10.86
Calgary, AB	17.75	13.82	13.50	14.78	12.11
Charlottetown, PE ²	20.95	18.90	17.54	21.58	17.16
Edmonton, AB	15.70	14.28	13.61	18.01	13.72
Halifax, NS	16.71	15.35	15.82	19.77	15.82
Moncton, NB	16.57	14.62	13.88	17.25	13.86
Ottawa, ON	11.84	10.70	10.15	16.09	19.83
Regina, SK	17.82	15.23	13.98	19.20	14.60
St. John's, NL ³	14.82	14.58	12.59	15.57	12.52
Toronto, ON ²	14.12	11.96	11.00	16.86	20.43
Vancouver, BC	13.86	12.95	11.81	13.47	11.76
Winnipeg, MB	11.69	10.02	9.21	13.35	9.87
American Cities					
Boston, MA	33.83	32.39	34.08	46.77	35.98
Chicago, IL	25.76	21.36	16.25	19.88	16.02
Detroit, MI ²	19.47	18.38	17.37	17.30	17.22
Houston, TX ²	13.21	17.30	12.91	16.19	12.73
Miami, FL ²	14.38	13.14	13.21	18.07	12.98
Nashville, TN	26.36	21.20	16.91	28.49	19.24
New York, NY ²	35.86	42.36	27.98	39.78	27.54
Portland, OR ²	18.02	15.90	14.41	17.41	14.15
San Francisco, CA ²	36.63	35.46	34.29	41.51	33.11
Seattle, WA	14.97	14.97	14.97	15.49	13.70
AVERAGE	19.18	17.97	16.16	20.90	17.05

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, 2020
(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	154	131	135	113	111
Charlottetown, PE ¹	181	180	175	165	158
Edmonton, AB	136	136	136	137	126
Halifax, NS	145	146	158	151	146
Moncton, NB	143	139	138	132	128
Ottawa, ON	103	102	101	123	183
Regina, SK	154	145	139	147	134
St. John's, NL ²	128	139	126	119	115
Toronto, ON ¹	122	114	110	129	188
Vancouver, BC	120	123	118	103	108
Winnipeg, MB	101	95	92	102	91
American Cities					
Boston, MA	293	308	340	357	331
Chicago, IL	223	203	162	152	147
Detroit, MI ¹	169	175	173	132	159
Houston, TX ¹	114	165	129	124	117
Miami, FL ¹	125	125	132	138	120
Nashville, TN	228	202	169	217	177
New York, NY ¹	311	403	279	304	254
Portland, OR ¹	156	151	144	133	130
San Francisco, CA ¹	317	337	342	317	305
Seattle, WA	130	142	149	118	126
AVERAGE	166	171	161	160	157

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

2) Newfoundland Power rates.

05

Detailed Tables

Medium Power

Monthly Bills

Average Prices

Comparative Index

MEDIUM POWER

Monthly Bills on April 1, 2020
(in CA\$)

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	12,195.00	17,350.00	24,390.00	32,230.00	79,924.50
Calgary, AB	14,079.52	22,567.05	27,454.49	44,429.55	118,375.55
Charlottetown, PE ²	18,317.47	29,857.47	36,572.47	59,652.47	168,655.47
Edmonton, AB ³	18,658.68	28,465.48	34,766.38	54,379.98	148,795.06
Halifax, NS	17,524.50	26,521.50	35,049.00	53,043.00	147,637.65
Moncton, NB	14,918.86	24,458.86	29,833.86	48,913.86	138,496.86
Ottawa, ON	20,228.09	35,277.78	40,255.94	70,355.31	203,138.67
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	21,609.00	36,586.16	42,730.67	72,385.46	201,897.81
Vancouver, BC	12,118.05	18,118.05	24,228.05	36,228.05	98,621.68
Winnipeg, MB	10,433.71	14,644.71	20,627.61	29,049.61	71,664.42
American Cities					
Boston, MA	33,755.90	50,915.82	67,284.32	101,604.16	264,639.98
Chicago, IL	15,068.40	19,788.68	29,934.60	39,375.19	104,902.58
Detroit, MI ²	17,144.81	25,250.49	34,264.49	50,354.20	120,139.54
Houston, TX ²	13,811.12	22,128.01	30,774.19	47,407.98	125,633.75
Miami, FL ²	15,533.31	21,372.23	30,954.49	42,632.33	114,254.69
Nashville, TN	21,299.08	28,160.21	42,339.30	56,061.55	154,049.36
New York, NY ²	31,142.86	43,100.49	62,212.88	86,128.15	167,980.89
Portland, OR ²	15,114.40	23,024.92	28,938.82	44,131.46	111,039.04
San Francisco, CA ²	41,084.00	57,046.80	79,678.75	109,726.65	227,243.32
Seattle, WA	14,266.76	25,683.01	28,044.35	50,615.16	143,704.97
AVERAGE	18,519.25	27,967.25	36,696.47	55,327.98	142,722.59

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, 2020

(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	12.20	8.68	12.20	8.06	6.83
Calgary, AB	14.08	11.28	13.73	11.11	10.12
Charlottetown, PE ³	18.32	14.93	18.29	14.91	14.41
Edmonton, AB ⁴	18.66	14.23	17.38	13.59	12.72
Halifax, NS	17.52	13.26	17.52	13.26	12.62
Moncton, NB	14.92	12.23	14.92	12.23	11.84
Ottawa, ON	20.23	17.64	20.13	17.59	17.36
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	21.61	18.29	21.37	18.10	17.26
Vancouver, BC	12.12	9.06	12.11	9.06	8.43
Winnipeg, MB	10.43	7.32	10.31	7.26	6.13
American Cities					
Boston, MA	33.76	25.46	33.64	25.40	22.62
Chicago, IL	15.07	9.89	14.97	9.84	8.97
Detroit, MI ³	17.14	12.63	17.13	12.59	10.27
Houston, TX ³	13.81	11.06	15.39	11.85	10.74
Miami, FL ³	15.53	10.69	15.48	10.66	9.77
Nashville, TN	21.30	14.08	21.17	14.02	13.17
New York, NY ³	31.14	21.55	31.11	21.53	14.36
Portland, OR ³	15.11	11.51	14.47	11.03	9.49
San Francisco, CA ³	41.08	28.52	39.84	27.43	19.42
Seattle, WA	14.27	12.84	14.02	12.65	12.28
AVERAGE	18.52	13.98	18.35	13.83	12.20

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, 2020
(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	115	130	113	138	148
Charlottetown, PE ²	150	172	150	185	211
Edmonton, AB ³	153	164	143	169	186
Halifax, NS	144	153	144	165	185
Moncton, NB	122	141	122	152	173
Ottawa, ON	166	203	165	218	254
Regina, SK	134	138	134	149	147
St. John's, NL ⁴	105	121	100	126	140
Toronto, ON ²	177	211	175	225	253
Vancouver, BC	99	104	99	112	123
Winnipeg, MB	86	84	85	90	90
American Cities					
Boston, MA	277	293	276	315	331
Chicago, IL	124	114	123	122	131
Detroit, MI ²	141	146	140	156	150
Houston, TX ²	113	128	126	147	157
Miami, FL ²	127	123	127	132	143
Nashville, TN	175	162	174	174	193
New York, NY ²	255	248	255	267	210
Portland, OR ²	124	133	119	137	139
San Francisco, CA ²	337	329	327	340	284
Seattle, WA	117	148	115	157	180
AVERAGE	152	161	150	172	179

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 Tables

Large Power

Monthly Bills

Average Prices

Comparative Index

LARGE POWER

Monthly Bills on April 1, 2020 (in CA\$)

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	135,459.00	159,075.00	289,362.00	875,958.00	1,269,690.00	1,505,850.00
Calgary, AB	234,376.82	297,707.50	562,918.66	1,708,209.47	2,336,299.72	2,969,606.53
Charlottetown, PE ²	239,576.00	290,984.00	556,264.00	1,685,928.00	2,395,760.00	2,909,840.00
Edmonton, AB ³	264,430.26	325,440.68	528,565.07	1,586,354.58	2,250,940.33	2,725,951.46
Halifax, NS	265,586.49	327,880.89	624,614.57	1,894,620.51	2,655,888.84	3,278,832.84
Moncton, NB	209,516.13	248,833.17	455,388.00	1,379,076.00	1,986,420.00	2,373,780.00
Ottawa, ON	340,562.51	347,517.36	676,325.73	2,000,832.32	3,268,540.94	3,338,089.48
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	1,136,229.60	1,624,132.00	1,958,788.00
Toronto, ON ²	337,481.39	343,518.00	689,070.39	2,061,454.97	3,375,220.07	3,446,999.03
Vancouver, BC	197,235.43	239,787.43	381,325.53	1,156,098.01	1,634,106.89	1,997,490.89
Winnipeg, MB	140,650.82	169,126.82	275,899.80	836,175.90	1,188,946.80	1,443,034.80

American Cities

Boston, MA	528,924.53	647,153.10	1,014,193.58	3,078,781.77	4,239,028.87	5,346,385.31
Chicago, IL	208,825.24	241,828.64	356,471.68	1,065,893.00	1,509,604.96	1,839,639.04
Detroit, MI ²	239,675.25	277,740.75	513,011.42	1,550,235.29	2,283,445.73	2,655,707.07
Houston, TX ²	248,256.56	308,656.17	552,493.01	1,672,738.52	2,307,528.35	2,901,963.87
Miami, FL ²	228,173.24	268,115.05	441,322.12	1,329,656.01	1,932,342.51	2,282,114.83
Nashville, TN	304,383.04	354,704.40	451,386.70	1,325,121.27	2,007,130.07	2,439,827.23
New York, NY ²	335,756.53	385,599.17	746,071.77	2,254,419.01	3,355,718.02	3,854,144.43
Portland, OR ²	220,499.82	268,345.35	500,440.31	1,509,939.98	2,158,179.37	2,600,538.88
San Francisco, CA ²	451,553.05	543,857.46	1,039,460.82	3,144,946.79	4,496,613.44	5,419,657.52
Seattle, WA	287,579.90	368,406.60	652,069.90	1,980,406.35	2,692,389.30	3,445,048.95
AVERAGE	266,559.40	316,727.69	558,000.63	1,662,390.38	2,401,865.98	2,865,739.25

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, 2020

(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	5.79	5.20	5.02	5.00	5.43	4.92
Calgary, AB	10.02	9.73	9.77	9.75	9.98	9.70
Charlottetown, PE ³	10.24	9.51	9.66	9.62	10.24	9.51
Edmonton, AB ⁴	11.30	10.64	9.18	9.05	9.62	8.91
Halifax, NS	11.35	10.72	10.84	10.81	11.35	10.72
Moncton, NB	8.95	8.13	7.91	7.87	8.49	7.76
Ottawa, ON	14.55	11.36	11.74	11.42	13.97	10.91
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	6.49	6.94	6.40
Toronto, ON ³	14.42	11.23	11.96	11.77	14.42	11.26
Vancouver, BC	8.43	7.84	6.62	6.60	6.98	6.53
Winnipeg, MB	6.01	5.53	4.79	4.77	5.08	4.72

American Cities

Boston, MA	22.60	21.15	17.61	17.57	18.12	17.47
Chicago, IL	8.92	7.90	6.19	6.08	6.45	6.01
Detroit, MI ³	10.24	9.08	8.91	8.85	9.76	8.68
Houston, TX ³	10.61	10.09	9.59	9.55	9.86	9.48
Miami, FL ³	9.75	8.76	7.66	7.59	8.26	7.46
Nashville, TN	13.01	11.59	7.84	7.56	8.58	7.97
New York, NY ³	14.35	12.60	12.95	12.87	14.34	12.60
Portland, OR ³	9.42	8.77	8.69	8.62	9.22	8.50
San Francisco, CA ³	19.30	17.77	18.05	17.95	19.22	17.71
Seattle, WA	12.29	12.04	11.32	11.30	11.51	11.26
AVERAGE	11.39	10.35	9.69	9.49	10.26	9.37

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, 2020

(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	173	187	195	195	184	197
Charlottetown, PE ²	177	183	192	192	189	193
Edmonton, AB ³	195	205	183	181	177	181
Halifax, NS	196	206	216	216	209	218
Moncton, NB	155	156	157	157	156	158
Ottawa, ON	251	218	234	228	257	222
Regina, SK	166	173	154	153	148	154
St. John's, NL ⁴	163	175	181	130	128	130
Toronto, ON ²	249	216	238	235	266	229
Vancouver, BC	146	151	132	132	129	133
Winnipeg, MB	104	106	95	95	94	96

American Cities

Boston, MA	390	407	350	351	334	355
Chicago, IL	154	152	123	122	119	122
Detroit, MI ²	177	175	177	177	180	176
Houston, TX ²	183	194	191	191	182	193
Miami, FL ²	168	169	153	152	152	152
Nashville, TN	225	223	156	151	158	162
New York, NY ²	248	242	258	257	264	256
Portland, OR ²	163	169	173	172	170	173
San Francisco, CA ²	333	342	359	359	354	360
Seattle, WA	212	232	225	226	212	229
AVERAGE	197	199	193	190	189	190

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

Average Adjustments

Adjustments by
Customer Category

RATE ADJUSTMENTS

All Categories

	Before April 2019		Between April 1, 2019, and April 1, 2020		
	Year	%	Date	%	Comments
Canadian Utilities					
Hydro-Québec, QC	2019	0.9	—	—	
ENMAX, AB	2019	1.17	January 1, 2020	2.31	Applicable to distribution portion only
Maritime Electric, PE	2018	2.3	—	—	
EPCOR, AB	2017	n.a.	—	—	
Nova Scotia Power, NS	2019	n.a.	January 1, 2020	n.a.	
NB Power, NB	2018	0.88	July 18, 2019	2.48	
Hydro Ottawa, ON	2019	n.a.	April 1, 2020	n.a.	
			January 1, 2020	n.a.	
			November 1, 2019	n.a.	
			May 1, 2019	n.a.	
SaskPower, SK	2018	3.5	—	—	
Newfoundland Power, NL ¹	2018	6.8	October 1, 2019	6.4	
Newfoundland and Labrador Hydro, NL ¹	2019	n.a.	February 2, 2020	n.a.	
			October 1, 2019	n.a.	
			July 1, 2019	n.a.	
Toronto Hydro, ON	2019	n.a.	January 1, 2020	n.a.	
BC Hydro, BC	2019	6.85	April 1, 2020	-1.01	
Manitoba Hydro, MB	2018	3.6	June 1, 2019	2.5	

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, 2019, and April 1, 2020)

Adjustments by Customer Category

	Date	Residential %	General %	Industrial %	Average %
Canadian Utilities					
Hydro-Québec, QC	—	—	—	—	—
ENMAX, AB	January 1, 2020	2.14 ¹	n.a.	n.a.	2.31 ¹
Maritime Electric, PE	—	—	—	—	—
EPCOR, AB	—	—	—	—	—
Nova Scotia Power, NS	January 1, 2020	1.2	0.4 ² 2.0 ³ 0.0024 ⁴	1.9 ⁵ 3.0 ⁶ 3.0 ⁷	n.a.
NB Power, NB	July 18, 2019	2.48	2.48	2.48	2.48
Hydro Ottawa, ON	April 1, 2020	-14.78 ⁹	-15.1 ⁹	—	n.a.
	January 1, 2020	0.96	1.67	2.54	n.a.
	November 1, 2020	3.23	4.22	0.28	n.a.
	May 1, 2020	0.27	0.28	-9.8	n.a.
SaskPower, SK	—	—	—	—	—
Newfoundland Power, NL ⁸	October 1, 2019	6.4	6.6	6.9	6.4
Newfoundland and Labrador Hydro, NL ⁸	February 2, 2020	—	—	2.7	—
	October 1, 2019	—	—	9.7	—
	July 1, 2019	—	—	0.02	—
Toronto Hydro, ON	January 1, 2020	n.a.	n.a.	n.a.	n.a.
BC Hydro, BC	April 1, 2020	-1.01	-1.01	-1.01	-1.01
Manitoba Hydro, MB	June 1, 2019	2.5	1.3 ² 2.5 ³	2.5	2.5

Data concerning American utilities not available.

n.a.: Not available.

1) Distribution charge only.

2) Small power.

3) Medium power.

4) Large power.

5) Small industrial.

6) Medium industrial.

7) Large industrial.

8) 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.

9) Temporary Time-of-Use relief to customers under the Regulated Price Plan (RPP) due to COVID-19.

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 2020 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 System Benefit Fund Charge Transition Charges Transmission Cost Recovery Factor
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 Delivery Revenue Surcharge Dynamic Load Management Surcharge Market Supply Charge Market Supply Charge Capacity Merchant Function Charge Monthly Adjustment Clause Revenue Decoupling Mechanism Adjustment Statement of 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 DAS True-up 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 Factor Revenue Decoupling Adjustment Mechanism Solar Program Cost Adjustment Factor Solar Expansion Cost Recovery Mechanism Solar Massachusetts Renewable Target Storm Cost Recovery Adjustment Factor 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
Hydro Ottawa, ON	Capacity Based Recovery Disposition of Group 1 Deferral/Variance Accounts (2020) Disposition of Group 2 Deferral/Variance Accounts (2020) Disposition of Global Adjustment Account (2020) Rural or Remote Electricity Rate Protection Charge Smart Metering Entity Charge
Maritime Electric, PE	Energy Cost Adjustment Mechanism
Nashville Electric Service, TN	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 DWR Bond Energy Cost Recovery Amount New System Generation Charge Nuclear Decommissioning Public Purpose Programs Reliability Services Transmission Rate Adjustments

Pacific Power and Light, OR

Adjustment Associated with the Pacific Northwest Electric
Power Planning Conservation Act
Adjustment to Remove Deer Creek Mine Investment from Base Rate
Base Supply Service
Community Solar Start-Up Cost Recovery Adjustment
Energy Conservation Charge
Federal Tax Act Adjustment
Generation Investment Adjustment
Independent Evaluator Cost Adjustment
Intervenor Funding Adjustment
Net Power Costs
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
TAM Adjustment for Other Revenues

Toronto Hydro, ON

Application of Operations Center Consolidation Plan
Capacity Based Recovery (CBR)
Disposition of Capacity Based Recovery Account
Disposition of Deferral/Variance Accounts
Disposition of Global Adjustment Account
Disposition of Other Post Employment Benefit Variance
Disposition of the Impact for USGAAP
Disposition of IFRS – CGAPP Property Plan and Equipment
Disposition of External Driven Capital Variance Account
Disposition of the Gain on Property Sale
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, 2020

	Tax	% (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
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	7	To base amount of bill (heating other than electric)
		1.4	To base amount of bill (electric heating)
	Municipal tax	2.5	To base amount of bill (heating other than electric)
		0.5	To base amount of bill (electric heating)
	Goods and services tax	5	To base amount of bill + municipal tax
American Cities			
Boston, MA	None		
Chicago, IL	State tax	¢/kWh	Tax varies by energy block
	Municipal tax	¢/kWh	Tax varies by energy block
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	2.5641	To base amount of bill
	Franchise fee	5.997	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	4.9024	To other components
	Sales tax	4.5	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
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 GENERAL SERVICE

On April 1, 2020

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)
		1.6	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	5.997	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 GENERAL SERVICE (cont'd)

On April 1, 2020

	Tax	% (or other)	Applicable
New York, NY	Commodity gross receipts tax	2.4066	To commodity component
	Delivery gross receipts tax	2.4276	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, 2020

	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)
		1.6	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	5.997	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)

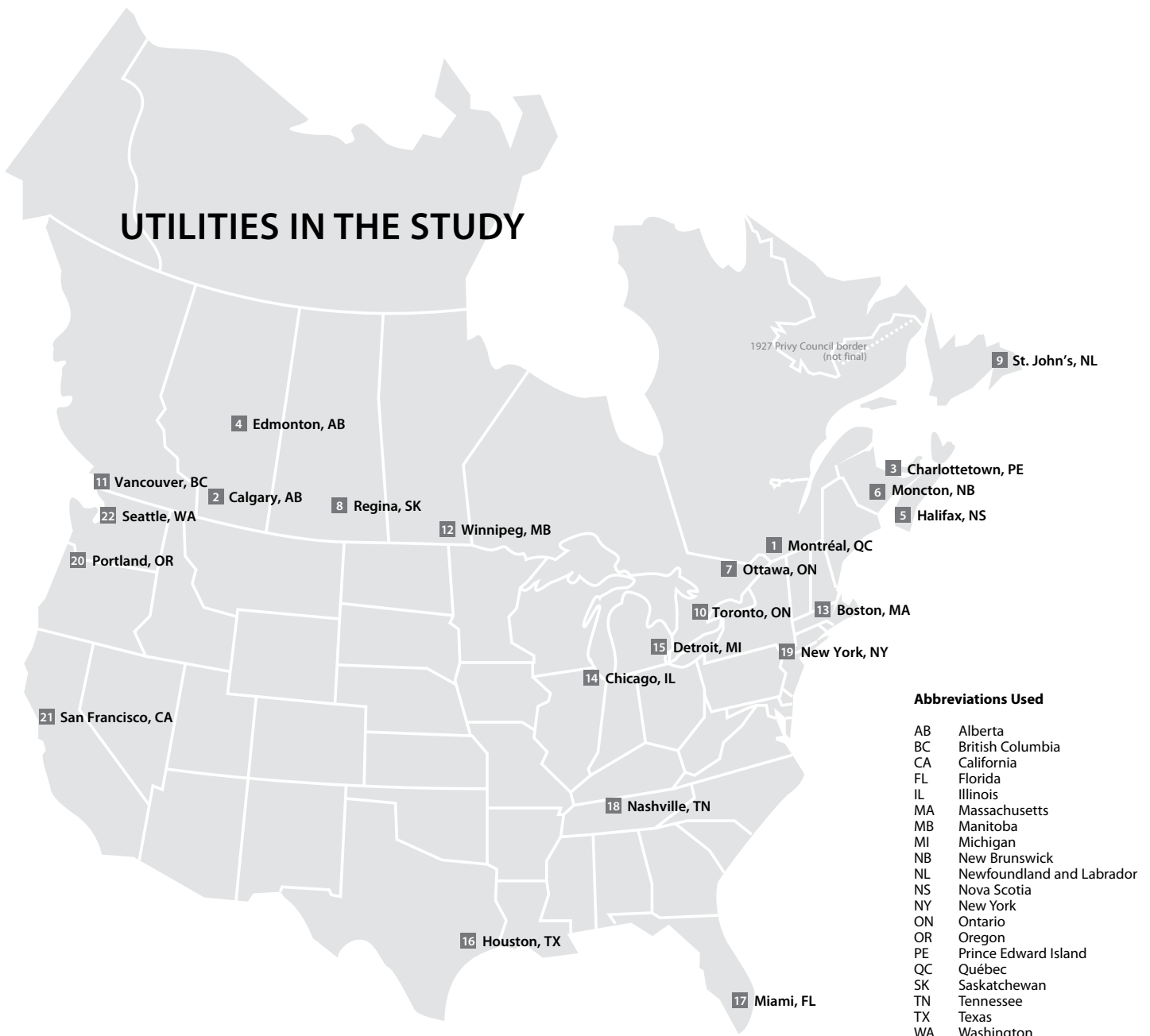
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	Tax	% (or other)	Applicable
New York, NY	Commodity gross receipts tax	2.4066	To commodity component
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	Sales tax	8.875	To base amount of bill + gross receipts tax
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	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)
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- Pacific Power and Light
- 21- Pacific Gas and Electric
- 22- Seattle City Light

CANADIAN UTILITIES

HYDRO-QUÉBEC

Montréal, Québec

A government-owned company whose lines of business are unbundled, Hydro-Québec is one of the largest electric utilities in North America.

The *Act respecting the Régie de l'énergie* [Québec energy board] established an annual maximum heritage pool of 165 TWh that Hydro-Québec Production must supply to Hydro-Québec Distribution. The division also purchases electricity on the market, primarily through calls for tenders. The average supply cost of heritage pool electricity, set at a fixed price of 2.79¢/kWh since 1998, is indexed 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.

In December 2019, *An Act to simplify the process for establishing electricity distribution rates* was adopted, establishing a rate freeze for all customers starting April 1, 2020. For the next four years, rates will be adjusted according to inflation, except for Rate L, which will be fixed by the Régie de l'énergie, taking into account the competitiveness of the rate and the cross-subsidization.

Activities: Generation, transmission and distribution

Installed capacity: 37,243 MW

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

Number of accounts: About 4.4 million residential, commercial, institutional and industrial customer accounts, nine municipal systems and 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: 1,611 MW

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

Number of accounts: 667,700

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: Purchased from NB Power

Number of accounts: About 80,000

Distribution regulator: Island Regulatory and Appeals Commission

Wholesale market: –

Retail market: –

EPCOR

Edmonton, Alberta

Activities: Transmission and distribution

Installed capacity: –

Main sources: Purchased on market

Number of accounts: About 600,000 customers throughout province of Alberta, including about 380,000 customers in Edmonton and in the Collingwood area

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: 520,000

Distribution regulator: Nova Scotia Utility and Review Board

Wholesale market: –

Retail market: –

NB POWER

Moncton, New Brunswick

Activities: Generation, transmission and distribution

Installed capacity: 3,515 MW

Main sources: Thermal (1,439 MW), hydroelectric (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: Purchased from Ontario Power Generation

Number of accounts: Over 335,000

Distribution regulator: Ontario Energy Board

Wholesale market: Open

Retail market: Open, but rate for the supply of electricity is regulated by Ontario Energy Board

SASKPOWER

Regina, Saskatchewan

Activities: Generation, transmission and distribution

Installed capacity: 4,893 MW

Main sources: Natural gas (44.4%), coal (31.3%), hydroelectric (18.2%), wind (4.9%) and other (1.2%)

Number of accounts: About 538,000

Distribution regulator: Saskatchewan Rate Review Panel reviews SaskPower's rate applications and advises government

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 generating stations and fuel

Number of accounts: 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: Purchased from Newfoundland and Labrador Hydro (93%)

Number of accounts: About 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: Purchased from Ontario Power Generation

Number of accounts: About 772,000

Distribution regulator: Ontario Energy Board

Wholesale market: Open

Retail market: Open, but rate for the supply of electricity is regulated by Ontario Energy Board

BC HYDRO

Vancouver, British Columbia

Activities: Generation, transmission and distribution

Installed capacity: About 12,100 MW

Main sources: Hydroelectric generating stations (about 98%)

Number of accounts: More than 2 million

Distribution regulator: British Columbia Utilities Commission

Wholesale market: Open

Retail market: –

MANITOBA HYDRO

Winnipeg, Manitoba

Activities: Generation, transmission and distribution

Installed capacity: 5,561 MW

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

Number of accounts: About 587,000

Distribution regulator: Manitoba Public Utilities Board

Wholesale market: –

Retail market: –

AMERICAN UTILITIES

EVERSOURCE ENERGY

Boston, Massachusetts

Activities: Transmission and distribution

Installed capacity: –

Main sources: Purchased from ISO New England.

Number of accounts: Close to 3.2 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

Detroit, Michigan

Installed capacity: 11,084 MW

Number of accounts: 2.2 million customers in southeastern Michigan

Wholesale market: Open

Retail market: Partially open

Houston, Texas

Installed capacity: –

Number of accounts: Over 2.6 million customers

Wholesale market: Open

Retail market: Open

Miami, Florida

Installed capacity: Over 26,500 MW

Number of accounts: Over 5 million

Wholesale market: Open

Retail market: –

Nashville, Tennessee

Installed capacity: –

Number of accounts: Over 400,000

Wholesale market: –

Retail market: –

New York, New York

Installed capacity: –

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

Wholesale market: Open

Retail market: Open

Portland, Oregon

Installed capacity: Over 10,880 MW

Number of accounts: Close to 773,000 customers across three states

Wholesale market: Open

Retail market: Partially open

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