



# 2022 Comparison of Electricity Prices in Major North American Cities

Rates in effect April 1, 2022





# TABLE OF CONTENTS

<b>INTRODUCTION</b>	<b>3</b>
<b>METHOD</b>	<b>9</b>
<b>HIGHLIGHTS</b>	<b>11</b>
Residential Customers	11
Small-Power Customers	12
Medium-Power Customers	13
Large-Power Customers	16
<b>DETAILED RESULTS</b>	
1    Summary Tables (excluding taxes)	19
2    Summary Tables (including taxes)	25
3    Detailed Results – Residential Customers	31
4    Detailed Results – Small-Power Customers	37
5    Detailed Results – Medium-Power Customers	43
6    Detailed Results – Large-Power Customers	49
<b>APPENDICES</b>	
A    Rate Adjustments	55
B    Time-of-Use Rates Adjustment Clauses	59
C    Applicable Taxes	65
D    Utilities in the Study	73



# 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, 2022. 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<sup>1,2</sup>

(IN ¢/kWh)<sup>3</sup>



## 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, 2022.

2) Average prices excluding taxes.

3) In Canadian currency.

# MAJOR NORTH AMERICAN CITIES

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



## 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

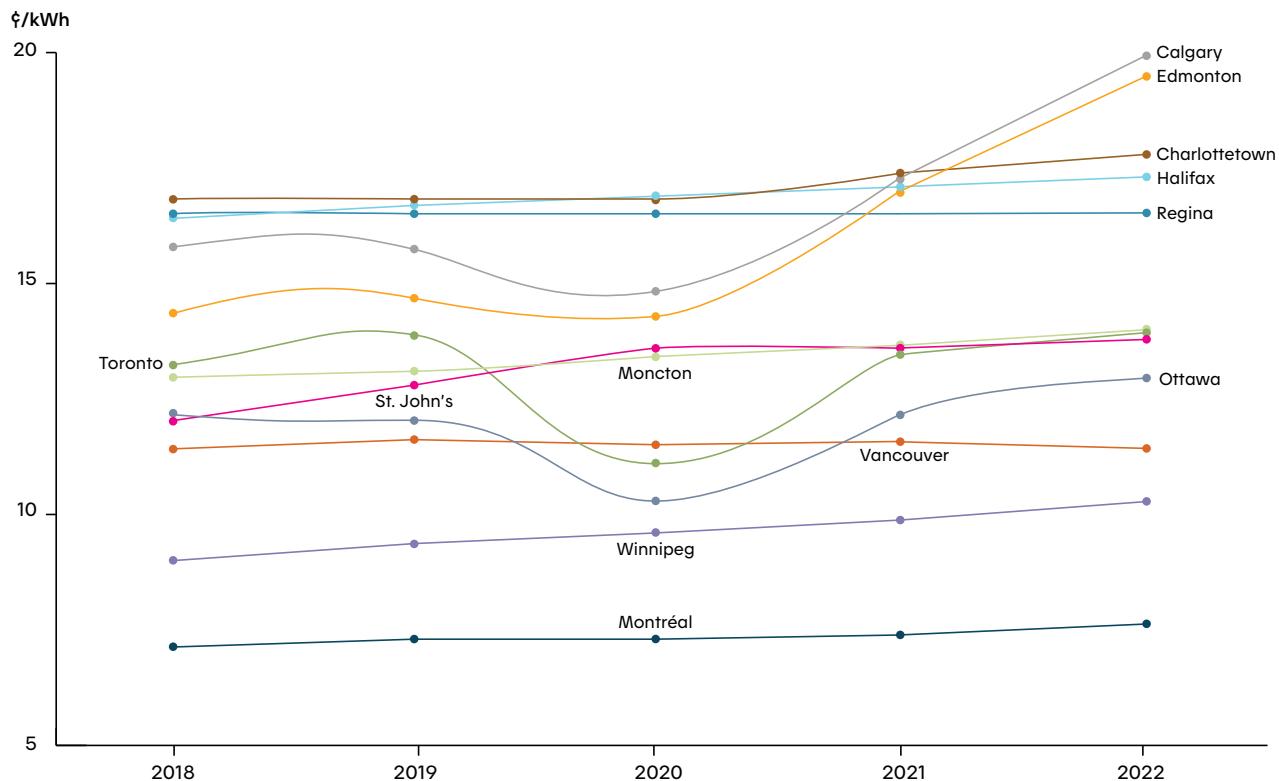
1) For a monthly consumption of 3,060,000 kWh and a power demand of 5,000 kW; rates in effect April 1, 2022.

2) Average prices excluding taxes.

3) In Canadian currency.

# MAJOR CANADIAN CITIES

## OVERVIEW OF CHANGES IN AVERAGE PRICES FOR RESIDENTIAL CUSTOMERS (IN ¢/kWh) – 2018–2022<sup>1, 2, 3, 4</sup>



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

	2018	2019	2020	2021	2022
<b>Canadian Cities</b>					
Montréal, QC	7.13	7.30	7.30	7.39	7.59
Calgary, AB	15.79	15.74	14.83	17.26	19.94
Charlottetown, PE	16.83	16.83	16.83	17.38	17.78
Edmonton, AB	14.35	14.68	14.29	16.99	19.48
Halifax, NS	16.41	16.69	16.89	17.09	17.30
Moncton, NB	12.97	13.10	13.42	13.66	13.94
Ottawa, ON	12.16	12.04	10.29	12.45	12.94
Regina, SK	16.51	16.51	16.51	16.51	16.51
St. John's, NL	12.03	12.80	13.60	13.60	13.76
Toronto, ON	13.24	13.89	11.10	13.43	13.88
Vancouver, BC	11.42	11.62	11.51	11.58	11.39
Winnipeg, MB	9.00	9.37	9.60	9.87	10.24

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

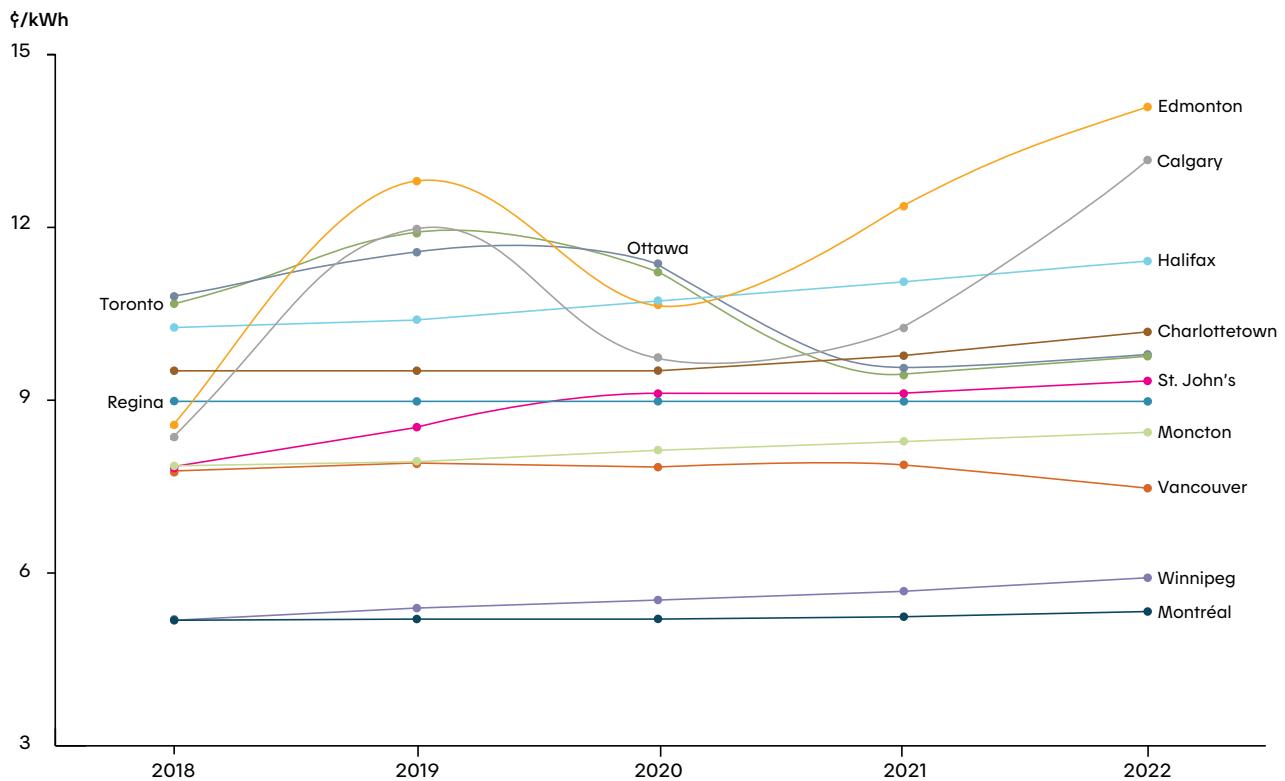
2) In Canadian currency.

3) Data from *Comparison of Electricity Prices in Major North American Cities* publications, Hydro-Québec, 2018–2022.

4) Average prices excluding taxes.

# MAJOR CANADIAN CITIES

## OVERVIEW OF CHANGES IN AVERAGE PRICES FOR LARGE-POWER CUSTOMERS (IN ¢/kWh) – 2018–2022<sup>1, 2, 3, 4</sup>



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

Canadian Cities	2018	2019	2020	2021	2022
Montréal, QC	5.18	5.20	5.20	5.24	5.33
Calgary, AB	8.32	11.97	9.73	10.25	13.16
Charlottetown, PE	9.51	9.51	9.51	9.77	10.17
Edmonton, AB	8.53	12.80	10.64	12.35	14.08
Halifax, NS	10.26	10.39	10.72	11.05	11.40
Moncton, NB	7.86	7.93	8.13	8.28	8.44
Ottawa, ON	10.80	11.57	11.36	9.57	9.78
Regina, SK	8.98	8.98	8.98	8.98	8.98
St. John's, NL	7.84	8.52	9.12	9.12	9.32
Toronto, ON	10.66	11.91	11.23	9.45	9.76
Vancouver, BC	7.77	7.91	7.84	7.88	7.76
Winnipeg, MB	5.18	5.39	5.53	5.68	5.90

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

2) In Canadian currency.

3) Data from *Comparison of Electricity Prices in Major North American Cities* publications, Hydro-Québec, 2018–2022.

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, 2022. The most recent rate adjustments applied by the Canadian utilities in the study between April 1, 2021, and April 1, 2022, 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, 2022.

## TIME-OF-USE RATES

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

## ADJUSTMENT CLAUSES

The rates of some distributors include clauses that allow them to adjust their customers' electricity bills according to different variables. Since these adjustments may be applied monthly or over a longer period, the bills issued by a given distributor may have varied between April 1, 2021, and April 1, 2022, even though base rates remained the same. Appendix B lists the adjustment clauses taken into account when calculating bills.

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## **TAXES**

With the exception of the bills presented in Section 2, taxes are not included in any of the calculations. Appendix C lists the taxes applicable on April 1, 2022, by customer category; those which may be partially or fully refundable are indicated.

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## **EXCHANGE RATE**

The exchange rate used to convert bills in U.S. dollars into Canadian dollars is \$0.7992 (CA\$1 = US\$0.7992), the rate in effect at noon on April 1, 2022. The Canadian dollar had thus appreciated by 0.41% relative to the U.S. dollar on April 1, 2021.

# HIGHLIGHTS

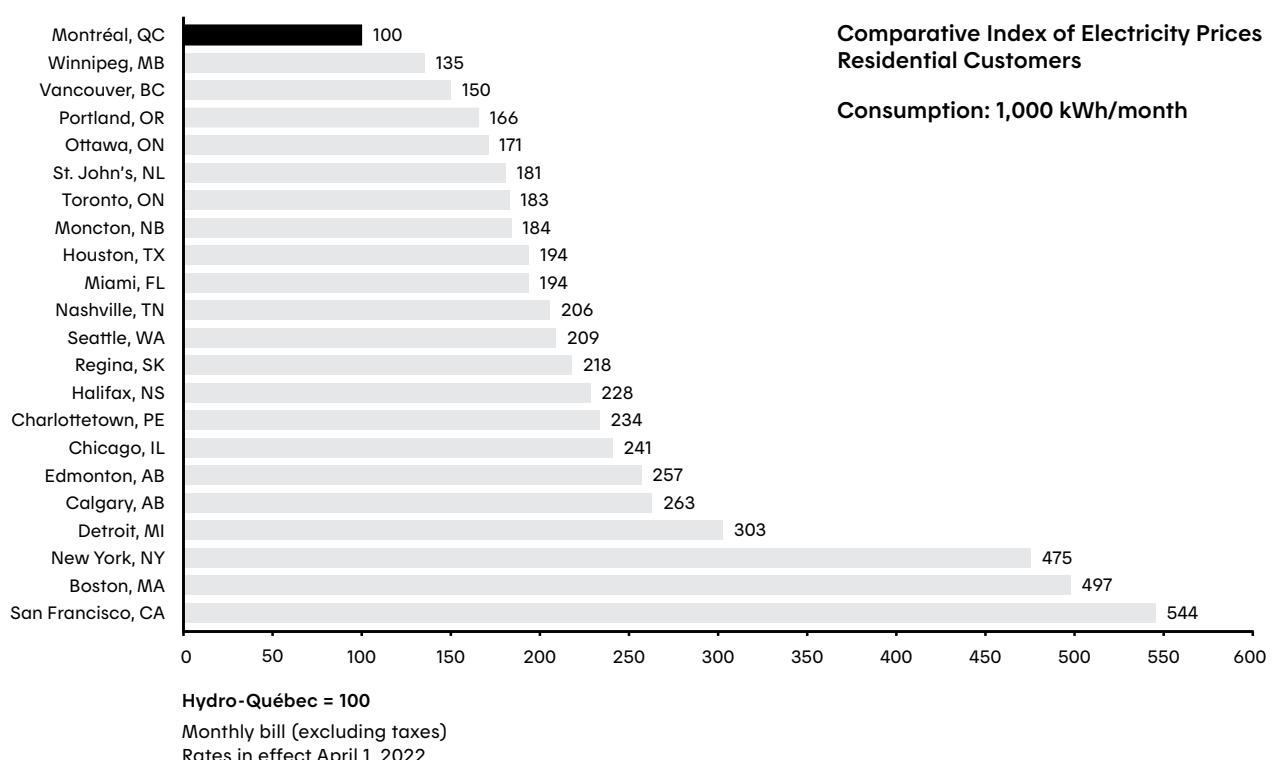
The document *Electricity Rates effective April 1, 2022*, sets out Hydro-Québec's rates established in accordance with Schedule 1 of the *Hydro-Québec Act*. Three types of rates are in effect: domestic rates, for residential customers; the industrial rate, for large-power industrial customers; and general 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

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.

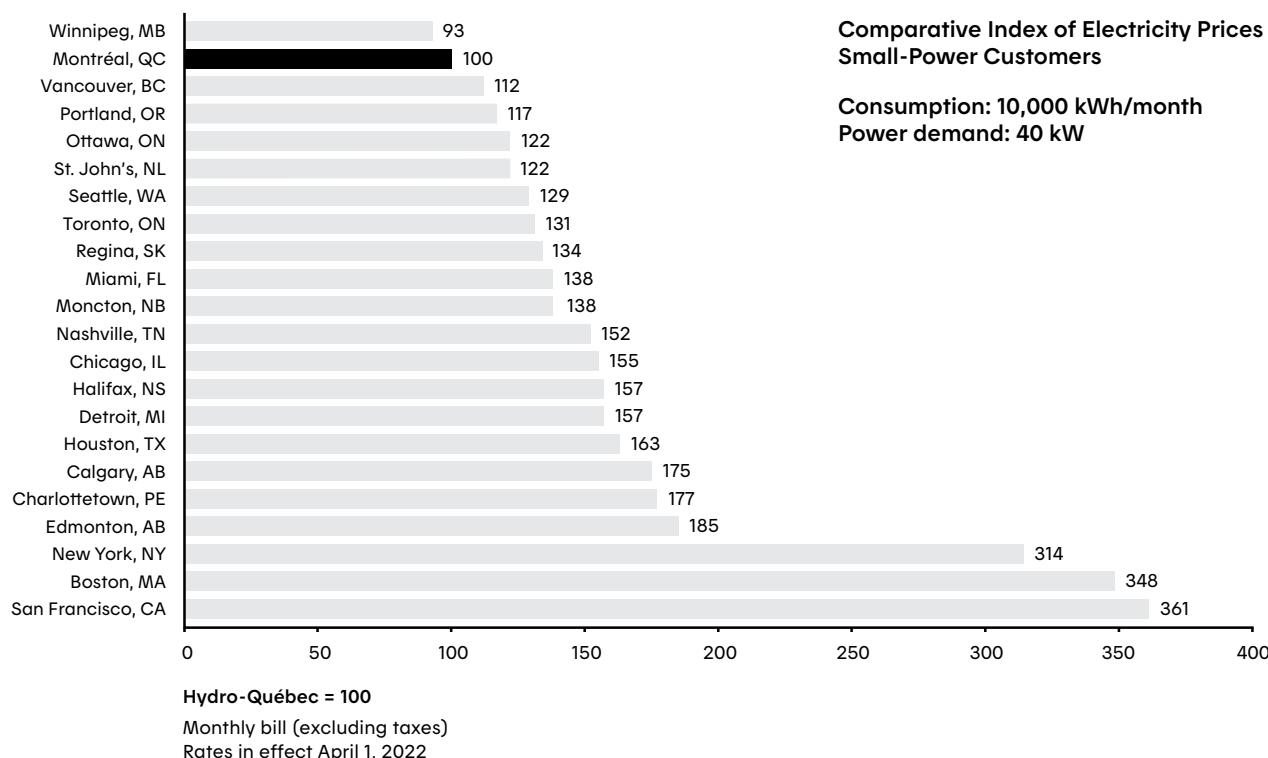
**FIGURE 1**



## 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**

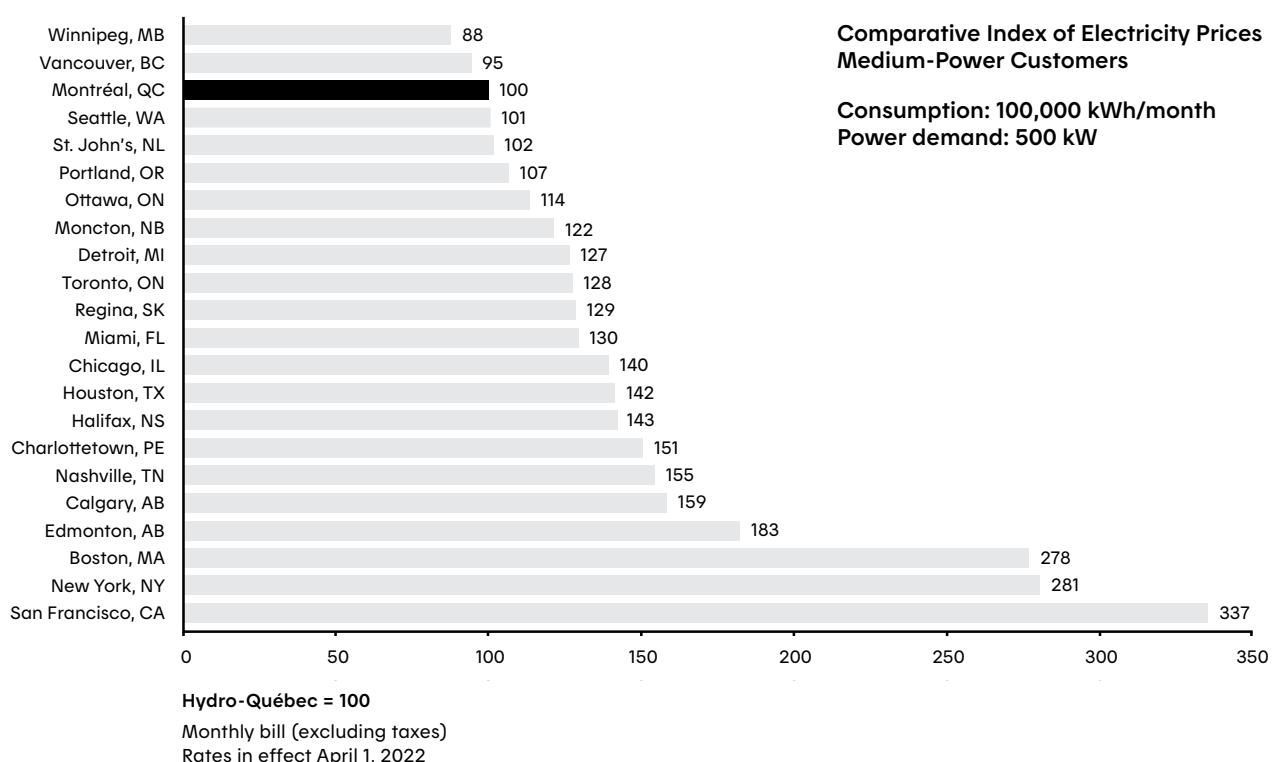


## MEDIUM-POWER CUSTOMERS (100 TO 5,000 kW)

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.

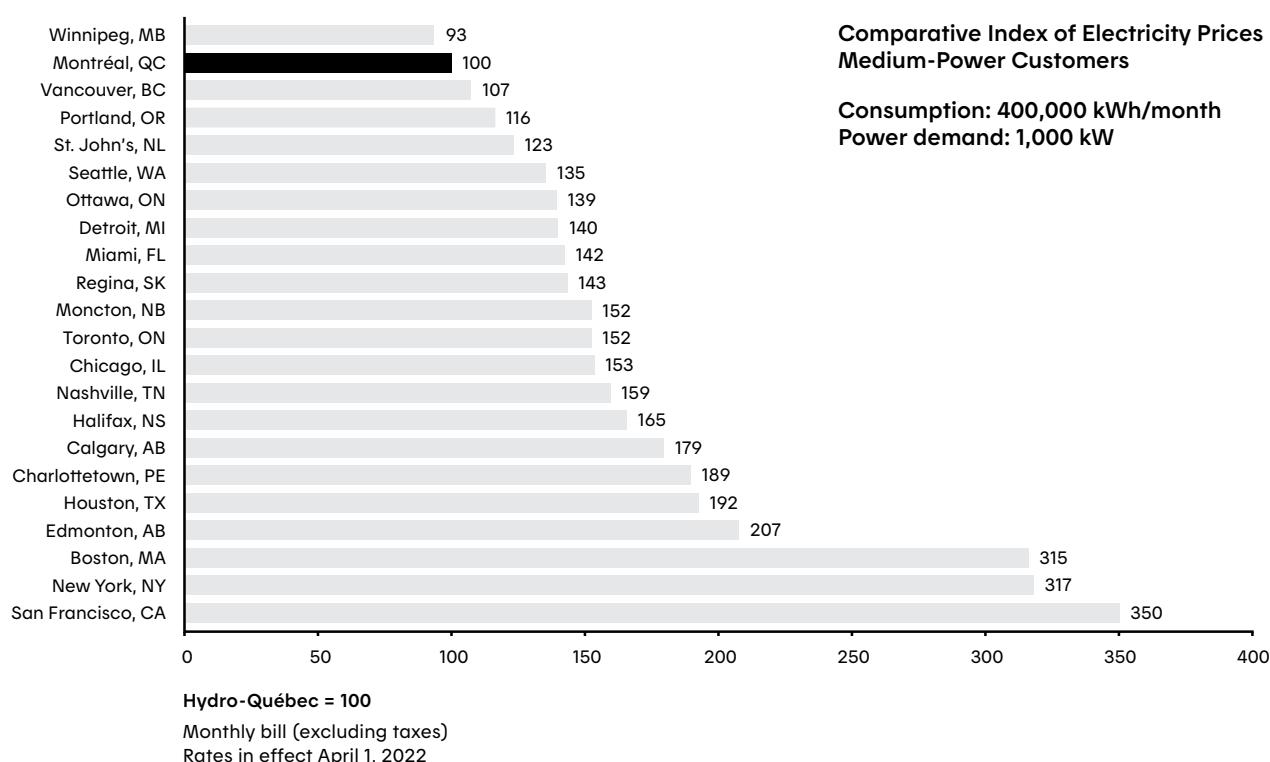
For medium-power customers with a monthly consumption of 100,000 kWh and a power demand of 500 kW, Montréal is once again in *third* place.

**FIGURE 3**



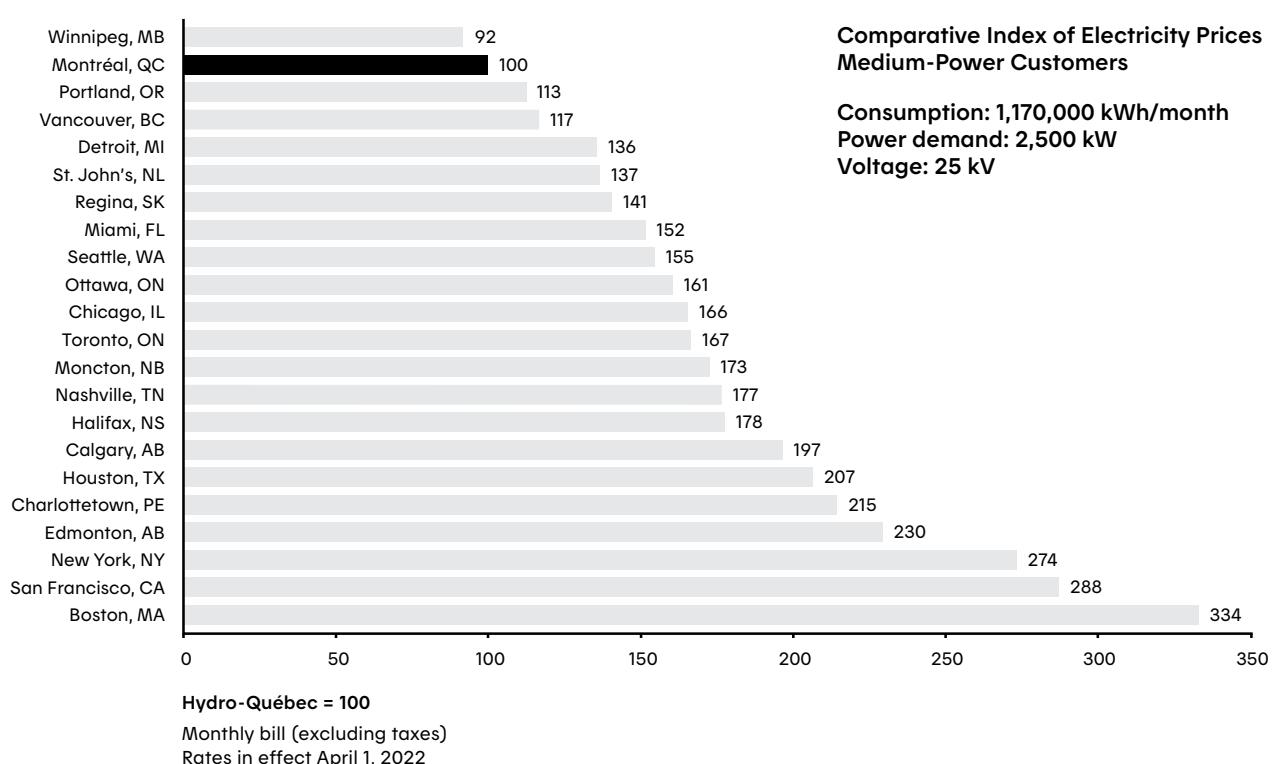
For customers with a monthly consumption of 400,000 kWh and a power demand of 1,000 kW, Montréal ranks second.

**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 remains in second place.

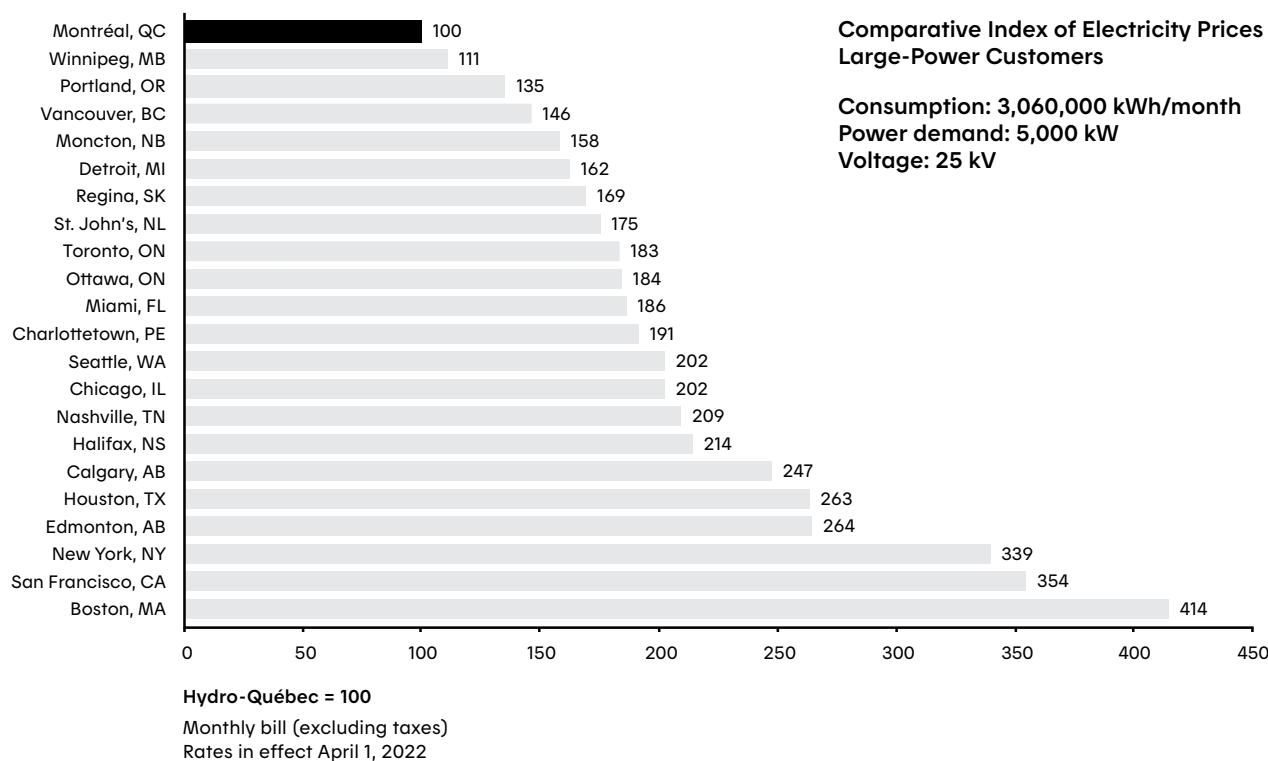
**FIGURE 5**



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

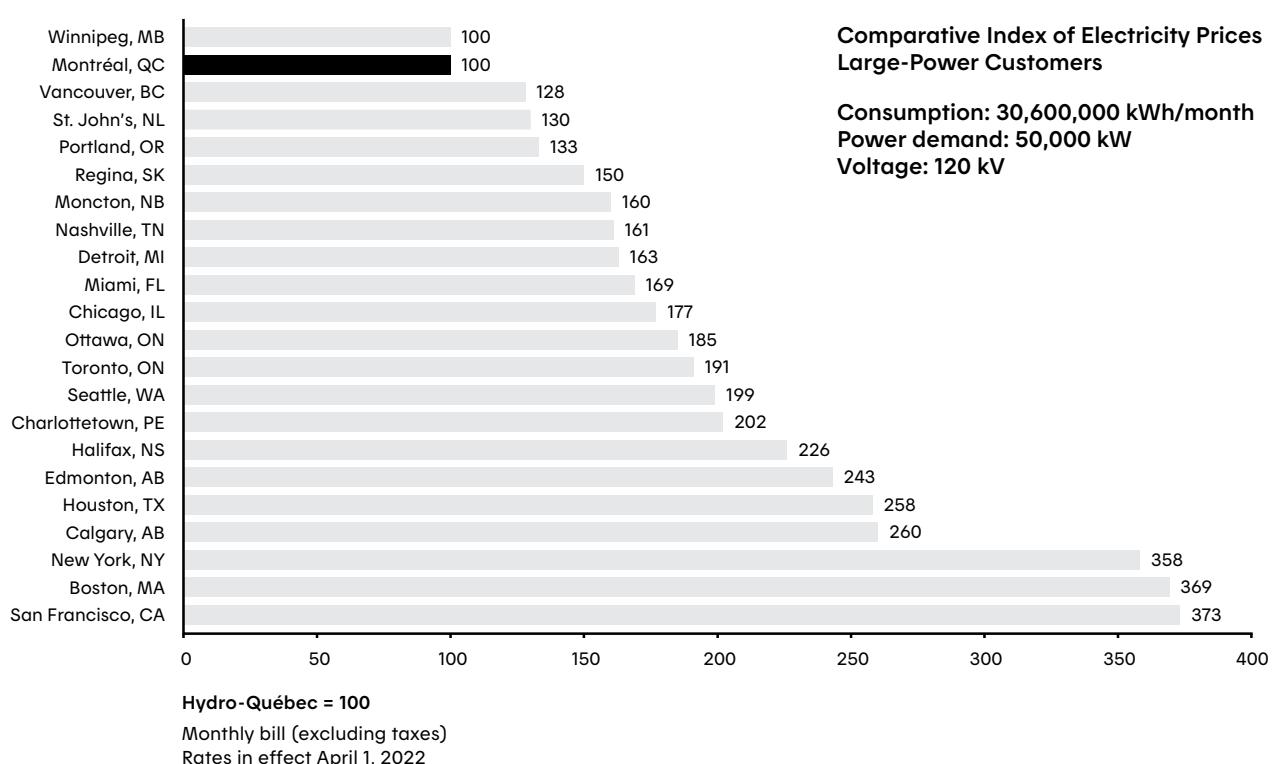
Figure 6 illustrates the comparative index of electricity prices for large-power customers with a monthly consumption of 3,060,000 kWh and a power demand of 5,000 kW. Montréal ranks *first*.

**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, 2022**  
(in C\$)

**Summary Table (excluding taxes)**

	Residential Customers	Small-Power Customers	Medium-Power Customers			Large-Power Customers	
			40 kW	500 kW	1,000 kW	2,500 kW <sup>1</sup>	5,000 kW <sup>1</sup>
<b>Power demand</b>		40 kW	500 kW	1,000 kW	2,500 kW <sup>1</sup>	5,000 kW <sup>1</sup>	50,000 kW <sup>2</sup>
<b>Consumption</b>	1,000 kWh	10,000 kWh	100,000 kWh	400,000 kWh	1,170,000 kWh	3,060,000 kWh	30,600,000 kWh
<b>Load factor</b>		35%	28%	56%	65%	85%	85%
<b>Canadian Cities</b>							
Montréal, QC	75.86	1,041.82	12,674.00	33,495.10	83,102.15	163,058.90	1,543,554.00
Calgary, AB	199.38	1,825.33	20,134.55	59,862.29	163,538.84	402,713.45	4,020,115.96
Charlottetown, PE <sup>3</sup>	177.77	1,849.17	19,195.97	63,140.97	178,842.97	311,180.00	3,111,800.00
Edmonton, AB <sup>4</sup>	194.78	1,927.61	23,135.70	69,364.17	191,297.90	430,870.58	3,746,692.08
Halifax, NS	172.98	1,636.30	18,068.50	55,219.00	147,637.65	348,719.49	3,487,218.84
Moncton, NB	139.35	1,441.17	15,489.37	50,774.37	143,759.37	258,411.84	2,465,040.00
Ottawa, ON	129.43	1,268.55	14,454.21	46,698.99	134,154.64	299,324.01	2,856,155.95
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 <sup>5</sup>	137.58	1,275.75	12,941.20	41,256.08	114,174.40	285,130.07	2,013,256.00
Toronto, ON <sup>3</sup>	138.84	1,365.25	16,261.72	50,903.85	139,022.85	298,524.93	2,946,264.47
Vancouver, BC	113.92	1,168.68	11,993.36	35,856.36	97,616.55	237,343.23	1,976,722.59
Winnipeg, MB	102.44	969.24	11,140.77	31,010.37	76,447.80	180,415.65	1,539,767.52
<b>American Cities</b>							
Boston, MA	377.28	3,630.13	35,177.26	105,544.71	277,420.96	675,655.24	5,693,726.23
Chicago, IL	182.95	1,612.06	17,763.25	51,131.13	137,932.65	329,885.56	2,733,183.47
Detroit, MI <sup>3</sup>	230.08	1,639.81	16,124.27	46,895.91	113,303.65	263,437.16	2,519,216.23
Houston, TX <sup>3</sup>	147.01	1,700.28	17,978.48	64,190.76	172,426.98	429,447.25	3,981,925.95
Miami, FL <sup>3</sup>	147.11	1,437.53	16,465.62	47,619.27	126,201.96	302,553.32	2,609,173.06
Nashville, TN	155.89	1,585.02	19,702.71	53,162.83	146,755.18	341,405.33	2,483,776.45
New York, NY <sup>3</sup>	360.28	3,270.42	35,654.23	106,337.17	227,657.48	552,263.29	5,521,007.15
Portland, OR <sup>3</sup>	126.15	1,216.45	13,535.78	38,879.61	93,682.55	220,907.40	2,059,058.32
San Francisco, CA <sup>3</sup>	412.87	3,764.97	42,741.31	117,151.09	239,254.07	576,616.62	5,753,810.95
Seattle, WA	158.70	1,345.10	12,806.56	45,336.02	128,659.18	329,683.45	3,078,009.47
<b>AVERAGE</b>	<b>183.90</b>	<b>1,744.03</b>	<b>19,081.22</b>	<b>57,357.18</b>	<b>147,733.13</b>	<b>341,469.78</b>	<b>3,111,474.91</b>

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, 2022

(in ¢/kWh)<sup>1</sup>

### Summary Table (excluding taxes)

	Residential Customers	Small-Power Customers	Medium-Power Customers			Large-Power Customers	
			40 kW	500 kW	1,000 kW	2,500 kW <sup>2</sup>	5,000 kW <sup>2</sup>
Power demand		1,000 kWh	10,000 kWh	100,000 kWh	400,000 kWh	1,170,000 kWh	3,060,000 kWh
Consumption			35%	28%	56%	65%	30,600,000 kWh
Load factor							85%
Canadian Cities							
Montréal, QC	7.59	10.42		12.67	8.37	7.10	5.33
Calgary, AB	19.94	18.25		20.13	14.97	13.98	13.16
Charlottetown, PE <sup>4</sup>	17.78	18.49		19.20	15.79	15.29	10.17
Edmonton, AB <sup>5</sup>	19.48	19.28		23.14	17.34	16.35	14.08
Halifax, NS	17.30	16.36		18.07	13.80	12.62	11.40
Moncton, NB	13.94	14.41		15.49	12.69	12.29	8.44
Ottawa, ON	12.94	12.69		14.45	11.67	11.47	9.78
Regina, SK	16.51	13.98		16.35	12.01	10.02	8.98
St. John's, NL <sup>6</sup>	13.76	12.76		12.94	10.31	9.76	9.32
Toronto, ON <sup>4</sup>	13.88	13.65		16.26	12.73	11.88	9.76
Vancouver, BC	11.39	11.69		11.99	8.96	8.34	7.76
Winnipeg, MB	10.24	9.69		11.14	7.75	6.53	5.90
American Cities							
Boston, MA	37.73	36.30		35.18	26.39	23.71	22.08
Chicago, IL	18.30	16.12		17.76	12.78	11.79	10.78
Detroit, MI <sup>4</sup>	23.01	16.40		16.12	11.72	9.68	8.61
Houston, TX <sup>4</sup>	14.70	17.00		17.98	16.05	14.74	14.03
Miami, FL <sup>4</sup>	14.71	14.38		16.47	11.90	10.79	9.89
Nashville, TN	15.59	15.85		19.70	13.29	12.54	11.16
New York, NY <sup>4</sup>	36.03	32.70		35.65	26.58	19.46	18.05
Portland, OR <sup>4</sup>	12.61	12.16		13.54	9.72	8.01	7.22
San Francisco, CA <sup>4</sup>	41.29	37.65		42.74	29.29	20.45	18.84
Seattle, WA	15.87	13.45		12.81	11.33	11.00	10.77
<b>AVERAGE</b>	<b>18.39</b>	<b>17.44</b>		<b>19.08</b>	<b>14.34</b>	<b>12.63</b>	<b>11.16</b>
							<b>10.17</b>

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, 2022

(Hydro-Québec = 100)

### Summary Table (excluding taxes)

	Residential Customers	Small-Power Customers	Medium-Power Customers			Large-Power Customers	
			500 kW	1,000 kW	2,500 kW <sup>1</sup>	5,000 kW <sup>1</sup>	50,000 kW <sup>2</sup>
Power demand		40 kW	500 kW	1,000 kW	2,500 kW <sup>1</sup>	5,000 kW <sup>1</sup>	50,000 kW <sup>2</sup>
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	263	175	159	179	197	247	260
Charlottetown, PE <sup>3</sup>	234	177	151	189	215	191	202
Edmonton, AB <sup>4</sup>	257	185	183	207	230	264	243
Halifax, NS	228	157	143	165	178	214	226
Moncton, NB	184	138	122	152	173	158	160
Ottawa, ON	171	122	114	139	161	184	185
Regina, SK	218	134	129	143	141	169	150
St. John's, NL <sup>5</sup>	181	122	102	123	137	175	130
Toronto, ON <sup>3</sup>	183	131	128	152	167	183	191
Vancouver, BC	150	112	95	107	117	146	128
Winnipeg, MB	135	93	88	93	92	111	100
American Cities							
Boston, MA	497	348	278	315	334	414	369
Chicago, IL	241	155	140	153	166	202	177
Detroit, MI <sup>3</sup>	303	157	127	140	136	162	163
Houston, TX <sup>3</sup>	194	163	142	192	207	263	258
Miami, FL <sup>3</sup>	194	138	130	142	152	186	169
Nashville, TN	206	152	155	159	177	209	161
New York, NY <sup>3</sup>	475	314	281	317	274	339	358
Portland, OR <sup>3</sup>	166	117	107	116	113	135	133
San Francisco, CA <sup>3</sup>	544	361	337	350	288	354	373
Seattle, WA	209	129	101	135	155	202	199
<b>AVERAGE</b>	<b>242</b>	<b>167</b>	<b>151</b>	<b>171</b>	<b>178</b>	<b>209</b>	<b>202</b>

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, 2022**  
(in C\$)

**Summary Table (including taxes)**

	Residential Customers	Small-Power Customers	Medium-Power Customers			Large-Power Customers	
			500 kW	1,000 kW	2,500 kW <sup>1</sup>	5,000 kW <sup>1</sup>	50,000 kW <sup>2</sup>
<b>Power demand</b>		<b>40 kW</b>	<b>500 kW</b>	<b>1,000 kW</b>	<b>2,500 kW<sup>1</sup></b>	<b>5,000 kW<sup>1</sup></b>	<b>50,000 kW<sup>2</sup></b>
<b>Consumption</b>	<b>1,000 kWh</b>	<b>10,000 kWh</b>	<b>100,000 kWh</b>	<b>400,000 kWh</b>	<b>1,170,000 kWh</b>	<b>3,060,000 kWh</b>	<b>30,600,000 kWh</b>
<b>Load factor</b>		<b>35%</b>	<b>28%</b>	<b>56%</b>	<b>65%</b>	<b>85%</b>	<b>85%</b>
<b>Canadian Cities</b>							
Montréal, QC	87.22	1,197.83	14,571.93	38,511.00	95,546.70	187,476.98	1,774,701.21
Calgary, AB	209.35	1,916.59	21,141.28	62,855.40	171,715.78	422,849.12	4,221,121.75
Charlottetown, PE <sup>3</sup>	204.44	2,126.55	22,075.37	72,612.12	205,669.42	357,857.00	3,578,570.00
Edmonton, AB <sup>4</sup>	204.52	2,023.99	24,292.49	72,832.38	200,862.79	452,414.11	3,934,026.69
Halifax, NS	181.63	1,881.75	20,778.78	63,501.85	169,783.30	401,027.41	4,010,301.67
Moncton, NB	160.25	1,657.35	17,812.78	58,390.53	165,323.28	297,173.62	2,834,796.00
Ottawa, ON	149.70	1,467.24	16,333.26	52,769.86	151,594.74	338,236.13	3,227,456.23
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 <sup>5</sup>	158.22	1,467.11	14,882.38	47,444.49	131,300.56	327,899.58	2,315,244.40
Toronto, ON <sup>3</sup>	160.59	1,579.08	18,375.74	57,521.35	157,095.82	337,333.17	3,329,278.85
Vancouver, BC	121.61	1,227.11	12,593.03	37,649.18	102,497.38	249,210.39	2,075,558.72
Winnipeg, MB	117.42	1,136.44	13,062.55	36,359.66	85,353.97	201,434.07	1,719,150.45
<b>American Cities</b>							
Boston, MA	377.28	3,848.70	37,292.71	111,808.73	293,787.15	715,339.91	6,024,146.33
Chicago, IL	194.94	1,709.21	18,647.94	54,485.79	147,365.88	353,491.47	2,938,319.91
Detroit, MI <sup>3</sup>	250.78	1,820.19	17,897.94	52,054.46	125,767.05	292,415.25	2,796,330.01
Houston, TX <sup>3</sup>	148.48	1,836.38	19,419.36	69,401.89	186,586.22	464,748.62	4,309,860.04
Miami, FL <sup>3</sup>	172.45	1,804.54	20,727.20	59,508.11	157,322.85	376,168.18	3,208,796.14
Nashville, TN	155.89	1,695.97	21,081.90	56,884.23	157,028.04	365,303.70	2,657,640.80
New York, NY <sup>3</sup>	391.53	3,646.43	39,753.51	118,562.75	253,830.99	615,755.86	6,155,745.88
Portland, OR <sup>3</sup>	128.16	1,236.09	13,756.68	39,508.89	95,278.49	224,685.26	2,094,360.72
San Francisco, CA <sup>3</sup>	413.24	3,956.97	44,915.91	123,158.79	251,655.96	606,596.10	6,052,987.99
Seattle, WA	158.70	1,345.10	12,806.56	45,336.02	128,659.18	329,683.45	3,078,009.47
<b>AVERAGE</b>	<b>197.41</b>	<b>1,924.89</b>	<b>21,034.90</b>	<b>63,283.52</b>	<b>162,910.87</b>	<b>375,942.22</b>	<b>3,424,720.33</b>

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, 2022

(in ¢/kWh)<sup>1</sup>

### Summary Table (including taxes)

	Residential Customers	Small-Power Customers	Medium-Power Customers			Large-Power Customers	
			40 kW	500 kW	1,000 kW	2,500 kW <sup>2</sup>	5,000 kW <sup>2</sup>
Power demand		1,000 kWh	10,000 kWh	100,000 kWh	400,000 kWh	1,170,000 kWh	3,060,000 kWh
Consumption			35%	28%	56%	65%	30,600,000 kWh
Load factor						85%	85%
Canadian Cities							
Montréal, QC	8.72	11.98		14.57	9.63	8.17	6.13
Calgary, AB	20.94	19.17		21.14	15.71	14.68	13.82
Charlottetown, PE <sup>4</sup>	20.44	21.27		22.08	18.15	17.58	11.69
Edmonton, AB <sup>5</sup>	20.45	20.24		24.29	18.21	17.17	14.78
Halifax, NS	18.16	18.82		20.78	15.88	14.51	13.11
Moncton, NB	16.03	16.57		17.81	14.60	14.13	9.71
Ottawa, ON	14.97	14.67		16.33	13.19	12.96	11.05
Regina, SK	19.65	17.67		20.55	15.27	12.82	11.56
St. John's, NL <sup>6</sup>	15.82	14.67		14.88	11.86	11.22	10.72
Toronto, ON <sup>4</sup>	16.06	15.79		18.38	14.38	13.43	11.02
Vancouver, BC	12.16	12.27		12.59	9.41	8.76	8.14
Winnipeg, MB	11.74	11.36		13.06	9.09	7.30	6.58
American Cities							
Boston, MA	37.73	38.49		37.29	27.95	25.11	23.38
Chicago, IL	19.49	17.09		18.65	13.62	12.60	11.55
Detroit, MI <sup>4</sup>	25.08	18.20		17.90	13.01	10.75	9.56
Houston, TX <sup>4</sup>	14.85	18.36		19.42	17.35	15.95	15.19
Miami, FL <sup>4</sup>	17.25	18.05		20.73	14.88	13.45	12.29
Nashville, TN	15.59	16.96		21.08	14.22	13.42	11.94
New York, NY <sup>4</sup>	39.15	36.46		39.75	29.64	21.69	20.12
Portland, OR <sup>4</sup>	12.82	12.36		13.76	9.88	8.14	7.34
San Francisco, CA <sup>4</sup>	41.32	39.57		44.92	30.79	21.51	19.82
Seattle, WA	15.87	13.45		12.81	11.33	11.00	10.77
<b>AVERAGE</b>	<b>19.74</b>	<b>19.25</b>		<b>21.03</b>	<b>15.82</b>	<b>13.92</b>	<b>12.29</b>
							<b>11.19</b>

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, 2022

(Hydro-Québec = 100)

### Summary Table (including taxes)

	Residential Customers	Small-Power Customers	Medium-Power Customers			Large-Power Customers	
			500 kW	1,000 kW	2,500 kW <sup>1</sup>	5,000 kW <sup>1</sup>	50,000 kW <sup>2</sup>
Power demand		40 kW	500 kW	1,000 kW	2,500 kW <sup>1</sup>	5,000 kW <sup>1</sup>	50,000 kW <sup>2</sup>
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	240	160	145	163	180	226	238
Charlottetown, PE <sup>3</sup>	234	178	151	189	215	191	202
Edmonton, AB <sup>4</sup>	234	169	167	189	210	241	222
Halifax, NS	208	157	143	165	178	214	226
Moncton, NB	184	138	122	152	173	159	160
Ottawa, ON	172	122	112	137	159	180	182
Regina, SK	225	148	141	159	157	189	169
St. John's, NL <sup>5</sup>	181	122	102	123	137	175	130
Toronto, ON <sup>3</sup>	184	132	126	149	164	180	188
Vancouver, BC	139	102	86	98	107	133	117
Winnipeg, MB	135	95	90	94	89	107	97
American Cities							
Boston, MA	433	321	256	290	307	382	339
Chicago, IL	224	143	128	141	154	189	166
Detroit, MI <sup>3</sup>	288	152	123	135	132	156	158
Houston, TX <sup>3</sup>	170	153	133	180	195	248	243
Miami, FL <sup>3</sup>	198	151	142	155	165	201	181
Nashville, TN	179	142	145	148	164	195	150
New York, NY <sup>3</sup>	449	304	273	308	266	328	347
Portland, OR <sup>3</sup>	147	103	94	103	100	120	118
San Francisco, CA <sup>3</sup>	474	330	308	320	263	324	341
Seattle, WA	182	112	88	118	135	176	173
<b>AVERAGE</b>	<b>226</b>	<b>161</b>	<b>144</b>	<b>164</b>	<b>171</b>	<b>201</b>	<b>193</b>

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 Customers**

Monthly Bills

Average Prices

Comparative Index



## RESIDENTIAL CUSTOMERS

### Monthly Bills on April 1, 2022

(in C\$)

Consumption	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
<b>Canadian Cities</b>					
Montréal, QC	52.17	60.06	75.86	166.49	263.98
Calgary, AB	135.17	156.57	199.38	370.60	541.82
Charlottetown, PE <sup>1</sup>	120.32	139.47	177.77	330.97	453.77
Edmonton, AB	132.28	153.12	194.78	361.47	528.16
Halifax, NS	112.17	132.44	172.98	335.13	497.28
Moncton, NB	95.81	110.33	139.35	255.45	371.55
Ottawa, ON	90.65	103.59	129.43	232.84	336.26
Regina, SK	111.72	129.50	165.07	307.35	449.63
St. John's, NL <sup>2</sup>	91.86	107.10	137.58	259.52	381.45
Toronto, ON <sup>1</sup>	99.19	112.41	138.84	244.59	350.33
Vancouver, BC	64.42	79.42	113.92	251.90	389.89
Winnipeg, MB	67.48	79.13	102.44	195.68	288.92
<b>American Cities</b>					
Boston, MA	239.08	285.16	377.28	745.80	1,114.31
Chicago, IL	121.60	142.08	182.95	346.63	510.29
Detroit, MI <sup>1</sup>	142.98	172.01	230.08	462.34	694.60
Houston, TX <sup>1</sup>	106.39	124.08	147.01	288.54	430.06
Miami, FL <sup>1</sup>	96.16	113.14	147.11	308.00	468.88
Nashville, TN	107.55	123.66	155.89	284.81	418.73
New York, NY <sup>1</sup>	233.01	275.43	360.28	699.68	1,039.08
Portland, OR <sup>1</sup>	83.88	97.97	126.15	265.50	404.85
San Francisco, CA <sup>1</sup>	235.86	297.57	412.87	976.35	1,593.44
Seattle, WA	97.37	117.82	158.70	322.24	485.78
<b>AVERAGE</b>	<b>119.87</b>	<b>141.46</b>	<b>183.90</b>	<b>364.18</b>	<b>546.05</b>

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

2) Newfoundland Power rates.

## RESIDENTIAL CUSTOMERS

### Average Prices on April 1, 2022

(in ¢/kWh)<sup>1</sup>

Consumption	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
<b>Canadian Cities</b>					
Montréal, QC	8.35	8.01	7.59	8.32	8.80
Calgary, AB	21.63	20.88	19.94	18.53	18.06
Charlottetown, PE <sup>2</sup>	19.25	18.60	17.78	16.55	15.13
Edmonton, AB	21.16	20.42	19.48	18.07	17.61
Halifax, NS	17.95	17.66	17.30	16.76	16.58
Moncton, NB	15.33	14.71	13.94	12.77	12.39
Ottawa, ON	14.50	13.81	12.94	11.64	11.21
Regina, SK	17.87	17.27	16.51	15.37	14.99
St. John's, NL <sup>3</sup>	14.70	14.28	13.76	12.98	12.72
Toronto, ON <sup>2</sup>	15.87	14.99	13.88	12.23	11.68
Vancouver, BC	10.31	10.59	11.39	12.60	13.00
Winnipeg, MB	10.80	10.55	10.24	9.78	9.63
<b>American Cities</b>					
Boston, MA	38.25	38.02	37.73	37.29	37.14
Chicago, IL	19.46	18.94	18.30	17.33	17.01
Detroit, MI <sup>2</sup>	22.88	22.93	23.01	23.12	23.15
Houston, TX <sup>2</sup>	17.02	16.54	14.70	14.43	14.34
Miami, FL <sup>2</sup>	15.39	15.09	14.71	15.40	15.63
Nashville, TN	17.21	16.49	15.59	14.24	13.96
New York, NY <sup>2</sup>	37.28	36.72	36.03	34.98	34.64
Portland, OR <sup>2</sup>	13.42	13.06	12.61	13.27	13.50
San Francisco, CA <sup>2</sup>	37.74	39.68	41.29	48.82	53.11
Seattle, WA	15.58	15.71	15.87	16.11	16.19
<b>AVERAGE</b>	<b>19.18</b>	<b>18.86</b>	<b>18.39</b>	<b>18.21</b>	<b>18.20</b>

1) In Canadian currency.

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

3) Newfoundland Power rates.

## RESIDENTIAL CUSTOMERS

### Comparative Index on April 1, 2022

(Hydro-Québec = 100)

Consumption	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
<b>Canadian Cities</b>					
Montréal, QC	100	100	100	100	100
Calgary, AB	259	261	263	223	205
Charlottetown, PE <sup>1</sup>	231	232	234	199	172
Edmonton, AB	254	255	257	217	200
Halifax, NS	215	221	228	201	188
Moncton, NB	184	184	184	153	141
Ottawa, ON	174	172	171	140	127
Regina, SK	214	216	218	185	170
St. John's, NL <sup>2</sup>	176	178	181	156	144
Toronto, ON <sup>1</sup>	190	187	183	147	133
Vancouver, BC	123	132	150	151	148
Winnipeg, MB	129	132	135	118	109
<b>American Cities</b>					
Boston, MA	458	475	497	448	422
Chicago, IL	233	237	241	208	193
Detroit, MI <sup>1</sup>	274	286	303	278	263
Houston, TX <sup>1</sup>	204	207	194	173	163
Miami, FL <sup>1</sup>	184	188	194	185	178
Nashville, TN	206	206	206	171	159
New York, NY <sup>1</sup>	447	459	475	420	394
Portland, OR <sup>1</sup>	161	163	166	159	153
San Francisco, CA <sup>1</sup>	452	495	544	586	604
Seattle, WA	187	196	209	194	184
<b>AVERAGE</b>	<b>230</b>	<b>236</b>	<b>242</b>	<b>219</b>	<b>207</b>

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

2) Newfoundland Power rates.



# 04

## Detailed Results

### **Small-Power Customers**

Monthly Bills

Average Prices

Comparative Index



## SMALL-POWER CUSTOMERS

### Monthly Bills on April 1, 2022

(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%
<b>Canadian Cities</b>					
Montréal, QC	89.99	218.62	1,041.82	1,906.24	2,822.15
Calgary, AB	177.51	385.65	1,825.33	3,041.59	4,186.52
Charlottetown, PE <sup>1</sup>	164.90	398.77	1,849.17	3,151.37	4,516.47
Edmonton, AB	161.05	399.77	1,927.61	3,803.93	5,323.69
Halifax, NS	126.30	309.66	1,636.30	2,844.50	4,090.75
Moncton, NB	129.05	303.67	1,441.17	2,507.37	3,596.37
Ottawa, ON	111.76	268.09	1,268.55	2,084.39	3,500.81
Regina, SK	133.66	304.52	1,398.04	2,687.72	3,650.47
St. John's, NL <sup>2</sup>	112.24	294.63	1,275.75	2,199.91	3,172.77
Toronto, ON <sup>1</sup>	132.93	299.46	1,365.25	2,260.65	3,766.10
Vancouver, BC	102.96	256.45	1,168.68	1,866.24	2,909.74
Winnipeg, MB	91.88	210.44	969.24	1,985.12	2,632.42
<b>American Cities</b>					
Boston, MA	265.72	681.44	3,630.13	7,030.14	9,610.26
Chicago, IL	185.27	418.02	1,612.06	2,760.56	3,982.87
Detroit, MI <sup>1</sup>	136.43	352.31	1,639.81	2,283.57	4,053.89
Houston, TX <sup>1</sup>	124.74	422.20	1,700.28	2,904.07	4,231.16
Miami, FL <sup>1</sup>	122.31	301.31	1,437.53	2,655.24	3,540.94
Nashville, TN	181.29	392.51	1,585.02	3,646.25	4,474.14
New York, NY <sup>1</sup>	298.39	928.77	3,270.42	6,136.12	8,066.71
Portland, OR <sup>1</sup>	116.42	273.52	1,216.45	2,099.25	2,993.26
San Francisco, CA <sup>1</sup>	300.58	780.98	3,764.97	6,115.94	9,079.62
Seattle, WA	100.88	269.02	1,345.10	1,949.45	3,071.20
<b>AVERAGE</b>	<b>153.01</b>	<b>384.99</b>	<b>1,744.03</b>	<b>3,087.26</b>	<b>4,421.47</b>

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

2) Newfoundland Power rates.

## SMALL-POWER CUSTOMERS

### Average Prices on April 1, 2022

(in ¢/kWh)<sup>1</sup>

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%
<b>Canadian Cities</b>					
Montréal, QC	12.00	10.93	10.42	13.62	11.29
Calgary, AB	23.67	19.28	18.25	21.73	16.75
Charlottetown, PE <sup>2</sup>	21.99	19.94	18.49	22.51	18.07
Edmonton, AB	21.47	19.99	19.28	27.17	21.29
Halifax, NS	16.84	15.48	16.36	20.32	16.36
Moncton, NB	17.21	15.18	14.41	17.91	14.39
Ottawa, ON	14.90	13.40	12.69	14.89	14.00
Regina, SK	17.82	15.23	13.98	19.20	14.60
St. John's, NL <sup>3</sup>	14.97	14.73	12.76	15.71	12.69
Toronto, ON <sup>2</sup>	17.72	14.97	13.65	16.15	15.06
Vancouver, BC	13.73	12.82	11.69	13.33	11.64
Winnipeg, MB	12.25	10.52	9.69	14.18	10.53
<b>American Cities</b>					
Boston, MA	35.43	34.07	36.30	50.22	38.44
Chicago, IL	24.70	20.90	16.12	19.72	15.93
Detroit, MI <sup>2</sup>	18.19	17.62	16.40	16.31	16.22
Houston, TX <sup>2</sup>	16.63	21.11	17.00	20.74	16.92
Miami, FL <sup>2</sup>	16.31	15.07	14.38	18.97	14.16
Nashville, TN	24.17	19.63	15.85	26.04	17.90
New York, NY <sup>2</sup>	39.79	46.44	32.70	43.83	32.27
Portland, OR <sup>2</sup>	15.52	13.68	12.16	14.99	11.97
San Francisco, CA <sup>2</sup>	40.08	39.05	37.65	43.69	36.32
Seattle, WA	13.45	13.45	13.45	13.92	12.28
<b>AVERAGE</b>	<b>20.40</b>	<b>19.25</b>	<b>17.44</b>	<b>22.05</b>	<b>17.69</b>

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 CUSTOMERS

### Comparative Index on April 1, 2022

(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%
<b>Canadian Cities</b>					
Montréal, QC	100	100	100	100	100
Calgary, AB	197	176	175	160	148
Charlottetown, PE <sup>1</sup>	183	182	177	165	160
Edmonton, AB	179	183	185	200	189
Halifax, NS	140	142	157	149	145
Moncton, NB	143	139	138	132	127
Ottawa, ON	124	123	122	109	124
Regina, SK	149	139	134	141	129
St. John's, NL <sup>2</sup>	125	135	122	115	112
Toronto, ON <sup>1</sup>	148	137	131	119	133
Vancouver, BC	114	117	112	98	103
Winnipeg, MB	102	96	93	104	93
<b>American Cities</b>					
Boston, MA	295	312	348	369	341
Chicago, IL	206	191	155	145	141
Detroit, MI <sup>1</sup>	152	161	157	120	144
Houston, TX <sup>1</sup>	139	193	163	152	150
Miami, FL <sup>1</sup>	136	138	138	139	125
Nashville, TN	201	180	152	191	159
New York, NY <sup>1</sup>	332	425	314	322	286
Portland, OR <sup>1</sup>	129	125	117	110	106
San Francisco, CA <sup>1</sup>	334	357	361	321	322
Seattle, WA	112	123	129	102	109
<b>AVERAGE</b>	<b>170</b>	<b>176</b>	<b>167</b>	<b>162</b>	<b>157</b>

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

2) Newfoundland Power rates.



# 05

## Detailed Results

### **Medium-Power Customers**

Monthly Bills

Average Prices

Comparative Index



## MEDIUM-POWER CUSTOMERS

### Monthly Bills on April 1, 2022

(in C\$)

Power demand	500 kW	500 kW	1,000 kW	1,000 kW	2,500 kW <sup>1</sup>
Consumption	100,000 kWh	200,000 kWh	200,000 kWh	400,000 kWh	1,170,000 kWh
Load factor	28%	56%	28%	56%	65%
<b>Canadian Cities</b>					
Montréal, QC	12,674.00	18,031.00	25,348.00	33,495.10	83,102.15
Calgary, AB	20,134.55	30,278.65	39,574.09	59,862.29	163,538.84
Charlottetown, PE <sup>2</sup>	19,195.97	31,605.97	38,320.97	63,140.97	178,842.97
Edmonton, AB <sup>3</sup>	23,135.70	36,021.59	43,592.39	69,364.17	191,297.90
Halifax, NS	18,068.50	27,609.50	36,137.00	55,219.00	147,637.65
Moncton, NB	15,489.37	25,389.37	30,974.37	50,774.37	143,759.37
Ottawa, ON	14,454.21	23,449.62	28,708.17	46,698.99	134,154.64
Regina, SK	16,347.97	24,021.97	32,679.97	48,027.97	117,239.17
St. John's, NL <sup>4</sup>	12,941.20	21,320.59	24,654.89	41,256.08	114,174.40
Toronto, ON <sup>2</sup>	16,261.72	25,738.26	32,140.29	50,903.85	139,022.85
Vancouver, BC	11,993.36	17,932.16	23,978.76	35,856.36	97,616.55
Winnipeg, MB	11,140.77	15,632.77	22,026.37	31,010.37	76,447.80
<b>American Cities</b>					
Boston, MA	35,177.26	52,872.46	70,154.32	105,544.71	277,420.96
Chicago, IL	17,763.25	25,655.99	35,345.63	51,131.13	137,932.65
Detroit, MI <sup>2</sup>	16,124.27	23,568.33	32,218.12	46,895.91	113,303.65
Houston, TX <sup>2</sup>	17,978.48	30,042.99	40,061.74	64,190.76	172,426.98
Miami, FL <sup>2</sup>	16,465.62	23,861.76	32,826.98	47,619.27	126,201.96
Nashville, TN	19,702.71	26,696.37	39,175.51	53,162.83	146,755.18
New York, NY <sup>2</sup>	35,654.23	53,205.03	71,235.56	106,337.17	227,657.48
Portland, OR <sup>2</sup>	13,535.78	19,596.03	26,998.32	38,879.61	93,682.55
San Francisco, CA <sup>2</sup>	42,741.31	59,876.50	84,538.58	117,151.09	239,254.07
Seattle, WA	12,806.56	23,004.25	25,170.51	45,336.02	128,659.18
<b>AVERAGE</b>	<b>19,081.22</b>	<b>28,882.33</b>	<b>37,993.66</b>	<b>57,357.18</b>	<b>147,733.13</b>

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 CUSTOMERS

### Average Prices on April 1, 2022

(in ¢/kWh)<sup>1</sup>

Power demand	500 kW	500 kW	1,000 kW	1,000 kW	2,500 kW <sup>2</sup>
Consumption	100,000 kWh	200,000 kWh	200,000 kWh	400,000 kWh	1,170,000 kWh
Load factor	28%	56%	28%	56%	65%
<b>Canadian Cities</b>					
Montréal, QC	12.67	9.02	12.67	8.37	7.10
Calgary, AB	20.13	15.14	19.79	14.97	13.98
Charlottetown, PE <sup>3</sup>	19.20	15.80	19.16	15.79	15.29
Edmonton, AB <sup>4</sup>	23.14	18.01	21.80	17.34	16.35
Halifax, NS	18.07	13.80	18.07	13.80	12.62
Moncton, NB	15.49	12.69	15.49	12.69	12.29
Ottawa, ON	14.45	11.72	14.35	11.67	11.47
Regina, SK	16.35	12.01	16.34	12.01	10.02
St. John's, NL <sup>5</sup>	12.94	10.66	12.33	10.31	9.76
Toronto, ON <sup>3</sup>	16.26	12.87	16.07	12.73	11.88
Vancouver, BC	11.99	8.97	11.99	8.96	8.34
Winnipeg, MB	11.14	7.82	11.01	7.75	6.53
<b>American Cities</b>					
Boston, MA	35.18	26.44	35.08	26.39	23.71
Chicago, IL	17.76	12.83	17.67	12.78	11.79
Detroit, MI <sup>3</sup>	16.12	11.78	16.11	11.72	9.68
Houston, TX <sup>3</sup>	17.98	15.02	20.03	16.05	14.74
Miami, FL <sup>3</sup>	16.47	11.93	16.41	11.90	10.79
Nashville, TN	19.70	13.35	19.59	13.29	12.54
New York, NY <sup>3</sup>	35.65	26.60	35.62	26.58	19.46
Portland, OR <sup>3</sup>	13.54	9.80	13.50	9.72	8.01
San Francisco, CA <sup>3</sup>	42.74	29.94	42.27	29.29	20.45
Seattle, WA	12.81	11.50	12.59	11.33	11.00
<b>AVERAGE</b>	<b>19.08</b>	<b>14.44</b>	<b>19.00</b>	<b>14.34</b>	<b>12.63</b>

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 CUSTOMERS

### Comparative Index on April 1, 2022

(Hydro-Québec = 100)

Power demand	500 kW	500 kW	1,000 kW	1,000 kW	2,500 kW <sup>1</sup>
Consumption	100,000 kWh	200,000 kWh	200,000 kWh	400,000 kWh	1,170,000 kWh
Load factor	28%	56%	28%	56%	65%
<b>Canadian Cities</b>					
Montréal, QC	100	100	100	100	100
Calgary, AB	159	168	156	179	197
Charlottetown, PE <sup>2</sup>	151	175	151	189	215
Edmonton, AB <sup>3</sup>	183	200	172	207	230
Halifax, NS	143	153	143	165	178
Moncton, NB	122	141	122	152	173
Ottawa, ON	114	130	113	139	161
Regina, SK	129	133	129	143	141
St. John's, NL <sup>4</sup>	102	118	97	123	137
Toronto, ON <sup>2</sup>	128	143	127	152	167
Vancouver, BC	95	99	95	107	117
Winnipeg, MB	88	87	87	93	92
<b>American Cities</b>					
Boston, MA	278	293	277	315	334
Chicago, IL	140	142	139	153	166
Detroit, MI <sup>2</sup>	127	131	127	140	136
Houston, TX <sup>2</sup>	142	167	158	192	207
Miami, FL <sup>2</sup>	130	132	130	142	152
Nashville, TN	155	148	155	159	177
New York, NY <sup>2</sup>	281	295	281	317	274
Portland, OR <sup>2</sup>	107	109	107	116	113
San Francisco, CA <sup>2</sup>	337	332	334	350	288
Seattle, WA	101	128	99	135	155
<b>AVERAGE</b>	<b>151</b>	<b>160</b>	<b>150</b>	<b>171</b>	<b>178</b>

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 Customers**

Monthly Bills

Average Prices

Comparative Index



## LARGE-POWER CUSTOMERS

### Monthly Bills on April 1, 2022

(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 <sup>1</sup>	25 kV	25 kV	120 kV	120 kV	120 kV	120 kV
Load factor	65%	85%	80%	81%	65%	85%

#### Canadian Cities

Montréal, QC	138,852.50	163,058.90	296,607.60	897,891.60	1,301,490.00	1,543,554.00
Calgary, AB	322,821.77	402,713.45	764,698.59	2,319,173.23	3,221,199.16	4,020,115.96
Charlottetown, PE <sup>2</sup>	255,020.00	311,180.00	594,280.00	1,801,560.00	2,550,200.00	3,111,800.00
Edmonton, AB <sup>3</sup>	348,211.95	430,870.58	720,529.30	2,170,334.01	3,027,557.36	3,746,692.08
Halifax, NS	281,521.89	348,719.49	663,840.17	2,013,931.71	2,815,242.84	3,487,218.84
Moncton, NB	217,560.12	258,411.84	472,884.00	1,432,068.00	2,062,560.00	2,465,040.00
Ottawa, ON	244,496.42	299,324.01	556,002.65	1,655,820.68	2,307,880.10	2,856,155.95
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 <sup>4</sup>	225,365.78	285,130.07	534,283.60	1,167,415.20	1,665,784.00	2,013,256.00
Toronto, ON <sup>2</sup>	275,196.77	298,524.93	581,052.71	1,742,274.44	2,712,982.85	2,946,264.47
Vancouver, BC	195,225.26	237,343.23	377,362.42	1,144,081.58	1,617,148.83	1,976,722.59
Winnipeg, MB	150,038.85	180,415.65	294,392.96	892,224.64	1,268,615.52	1,539,767.52

#### American Cities

Boston, MA	554,529.12	675,655.24	1,082,031.53	3,283,444.94	4,554,446.95	5,693,726.23
Chicago, IL	274,923.72	329,885.56	521,806.48	1,576,203.14	2,183,565.04	2,733,183.47
Detroit, MI <sup>2</sup>	225,984.91	263,437.16	485,966.38	1,468,904.22	2,151,720.73	2,519,216.23
Houston, TX <sup>2</sup>	341,514.32	429,447.25	754,291.32	2,289,089.86	3,119,903.02	3,981,925.95
Miami, FL <sup>2</sup>	252,102.87	302,553.32	501,282.17	1,513,556.44	2,154,578.47	2,609,173.06
Nashville, TN	290,240.17	341,405.33	449,933.70	1,327,291.00	1,976,839.38	2,483,776.45
New York, NY <sup>2</sup>	455,134.31	552,263.29	1,055,781.45	3,199,359.40	4,549,717.36	5,521,007.15
Portland, OR <sup>2</sup>	184,364.67	220,907.40	397,184.16	1,196,978.42	1,719,318.44	2,059,058.32
San Francisco, CA <sup>2</sup>	476,403.35	576,616.62	1,101,753.80	3,335,920.21	4,751,678.22	5,753,810.95
Seattle, WA	257,470.21	329,683.45	582,659.69	1,769,557.13	2,406,803.83	3,078,009.47
<b>AVERAGE</b>	<b>281,457.86</b>	<b>341,469.78</b>	<b>601,605.28</b>	<b>1,797,117.86</b>	<b>2,545,107.15</b>	<b>3,111,474.91</b>

1) Customer-owned transformer.

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

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

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

## LARGE-POWER CUSTOMERS

### Average Prices on April 1, 2022

(in ¢/kWh)<sup>1</sup>

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 <sup>2</sup>	25 kV	25 kV	120 kV	120 kV	120 kV	120 kV
Load factor	65%	85%	80%	81%	65%	85%

#### Canadian Cities

Montréal, QC	5.93	5.33	5.15	5.12	5.56	5.04
Calgary, AB	13.80	13.16	13.28	13.24	13.77	13.14
Charlottetown, PE <sup>3</sup>	10.90	10.17	10.32	10.28	10.90	10.17
Edmonton, AB <sup>4</sup>	14.88	14.08	12.51	12.39	12.94	12.24
Halifax, NS	12.03	11.40	11.53	11.50	12.03	11.40
Moncton, NB	9.30	8.44	8.21	8.17	8.81	8.06
Ottawa, ON	10.45	9.78	9.65	9.45	9.86	9.33
Regina, SK	9.62	8.98	7.76	7.65	8.00	7.56
St. John's, NL <sup>5</sup>	9.63	9.32	9.28	6.66	7.12	6.58
Toronto, ON <sup>3</sup>	11.76	9.76	10.09	9.94	11.59	9.63
Vancouver, BC	8.34	7.76	6.55	6.53	6.91	6.46
Winnipeg, MB	6.41	5.90	5.11	5.09	5.42	5.03

#### American Cities

Boston, MA	23.70	22.08	18.79	18.74	19.46	18.61
Chicago, IL	11.75	10.78	9.06	9.00	9.33	8.93
Detroit, MI <sup>3</sup>	9.66	8.61	8.44	8.38	9.20	8.23
Houston, TX <sup>3</sup>	14.59	14.03	13.10	13.07	13.33	13.01
Miami, FL <sup>3</sup>	10.77	9.89	8.70	8.64	9.21	8.53
Nashville, TN	12.40	11.16	7.81	7.58	8.45	8.12
New York, NY <sup>3</sup>	19.45	18.05	18.33	18.26	19.44	18.04
Portland, OR <sup>3</sup>	7.88	7.22	6.90	6.83	7.35	6.73
San Francisco, CA <sup>3</sup>	20.36	18.84	19.13	19.04	20.31	18.80
Seattle, WA	11.00	10.77	10.12	10.10	10.29	10.06
<b>AVERAGE</b>	<b>12.03</b>	<b>11.16</b>	<b>10.44</b>	<b>10.26</b>	<b>10.88</b>	<b>10.17</b>

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 CUSTOMERS

### Comparative Index on April 1, 2022

(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 <sup>1</sup>	25 kV	25 kV	120 kV	120 kV	120 kV	120 kV
Load factor	65%	85%	80%	81%	65%	85%
<b>Canadian Cities</b>						
Montréal, QC	100	100	100	100	100	100
Calgary, AB	232	247	258	258	248	260
Charlottetown, PE <sup>2</sup>	184	191	200	201	196	202
Edmonton, AB <sup>3</sup>	251	264	243	242	233	243
Halifax, NS	203	214	224	224	216	226
Moncton, NB	157	158	159	159	158	160
Ottawa, ON	176	184	187	184	177	185
Regina, SK	162	169	151	149	144	150
St. John's, NL <sup>4</sup>	162	175	180	130	128	130
Toronto, ON <sup>2</sup>	198	183	196	194	208	191
Vancouver, BC	141	146	127	127	124	128
Winnipeg, MB	108	111	99	99	97	100
<b>American Cities</b>						
Boston, MA	399	414	365	366	350	369
Chicago, IL	198	202	176	176	168	177
Detroit, MI <sup>2</sup>	163	162	164	164	165	163
Houston, TX <sup>2</sup>	246	263	254	255	240	258
Miami, FL <sup>2</sup>	182	186	169	169	166	169
Nashville, TN	209	209	152	148	152	161
New York, NY <sup>2</sup>	328	339	356	356	350	358
Portland, OR <sup>2</sup>	133	135	134	133	132	133
San Francisco, CA <sup>2</sup>	343	354	371	372	365	373
Seattle, WA	185	202	196	197	185	199
<b>AVERAGE</b>	<b>203</b>	<b>209</b>	<b>203</b>	<b>200</b>	<b>196</b>	<b>202</b>

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**

- Across-the-Board Adjustments
- Adjustments by Customer Category



## RATE ADJUSTMENTS

### Across-the-Board Adjustments

	Before April 2021		Between April 1, 2021, and April 1, 2022		
	Year	%	Date	%	Comments
<b>Canadian Utilities</b>					
Hydro-Québec, QC	2021	1.3	April 1, 2022	2.6	
ENMAX, AB	2021	3.07	January 1, 2022	-1.97	Applicable to distribution component only
Maritime Electric, PE	2021	3.0	March 1, 2022	2.0	
EPCOR, AB	2017	n.a.	—	—	
Nova Scotia Power, NS	2021	n.a.	January 1, 2022	n.a.	
NB Power, NB	2021	1.82	April 1, 2022	2.0	
Hydro Ottawa, ON	2021	n.a.	May 1, 2021	n.a.	
			November 1, 2021	n.a.	
			January 1, 2022	n.a.	
			January 18, 2022	n.a.	
			February 8, 2022	n.a.	
SaskPower, SK	2018	3.5	—	—	
Newfoundland Power, NL <sup>1</sup>	2021	2.5	March 1, 2022	-1.1	
Newfoundland and Labrador Hydro, NL <sup>1</sup>	2021	0.02	February 1, 2022	12.7	
Toronto Hydro, ON	2021	n.a.	January 1, 2022	n.a.	
BC Hydro, BC	2021	1.0	April 1, 2022	0.62	
Manitoba Hydro, MB	2020	n.a.	January 1, 2022	3.6	

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, 2021, and April 1, 2022)

### Adjustments by Customer Category

	Date	Residential Customers %	General-Rate Customers %	Industrial Customers %	Average %
<b>Canadian Utilities</b>					
Hydro-Québec, QC	April 1, 2022	2.6	2.6 <sup>1</sup> 2.6 <sup>2</sup> 2.6 <sup>3</sup>	1.7	2.6
ENMAX, AB	January 1, 2022	-1.96 <sup>4</sup>	-1.97 <sup>1</sup> -1.97 <sup>2</sup> -1.97 <sup>3</sup>	n.a.	-1.97 <sup>4</sup>
Maritime Electric, PE	March 1, 2022	2.0	2.0	4.0	2.0
EPCOR, AB	—	—	—	—	—
Nova Scotia Power, NS	January 1, 2022	1.2	0.4 <sup>1</sup> 2.0 <sup>2</sup> 0.002 <sup>3</sup>	1.9 <sup>5</sup> 3.0 <sup>6</sup> 3.0 <sup>7</sup>	n.a.
NB Power, NB	April 1, 2022	2.0	2.0	2.0	2.0
Hydro Ottawa, ON	May 1, 2021	-0.03	-0.14	-13.8	n.a.
	November 1, 2021	2.02	2.02	-1.05	n.a.
	January 1, 2022	1.65	1.57	-1.18	n.a.
	January 18, 2022	-13.07	-13.71	—	n.a.
	February 8, 2022	15.04	15.89	—	n.a.
SaskPower, SK	—	—	—	—	—
Newfoundland Power, NL <sup>8</sup>	March 1, 2022	-1.1	-1.1	-1.1	-1.1
Newfoundland and Labrador Hydro, NL <sup>8</sup>	February 1, 2022	—	—	12.7	—
Toronto Hydro, ON	January 1, 2022	n.a.	n.a.	n.a.	n.a.
BC Hydro, BC	April 1, 2022	0.62	0.62	0.62	0.62
Manitoba Hydro, MB	January 1, 2022	3.8	3.1	3.8	3.6

### Data concerning American utilities not available.

n.a.: Not available.

- 1) Small-power customers.
- 2) Medium-power customers.
- 3) Large-power customers.
- 4) Distribution component only.
- 5) Small industrial companies.
- 6) Midsize industrial companies.
- 7) Large industrial companies.
- 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.

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

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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 2022 was used.

CenterPoint Energy, TX	All levels
Commonwealth Edison, IL	All levels
Consolidated Edison, NY	All levels
DTE Electric, MI	500–50,000 kW
ENMAX, AB	All levels
EPCOR, AB	All levels
Eversource Energy, MA	General-rate customers: All levels
Hydro Ottawa, ON	All levels
Nashville Electric Service, TN	All levels
Newfoundland Power, NL	Residential customers General-rate customers: 14–10,000 kW
Pacific Gas and Electric, CA	All levels
Pacific Power and Light, OR	1,000–50,000 kW
Seattle City Light, WA	Residential customers General-rate customers: 1,000–50,000 kW
Toronto Hydro, ON	All levels

## ADJUSTMENT CLAUSES

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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 Distribution Cost Recovery Factor Energy Efficiency Cost Recovery Factor Nuclear Decommissioning Charge Rate Case Expenses Surcharge Transition Charges Transmission Cost Recovery Factor Unprotected Excess Deferred Income Tax
Commonwealth Edison, IL	Energy Efficiency Pricing & Performance Environmental Cost Recovery Adjustment Energy Transition Assistance Charge 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 Quarterly Transmission Access Charge Adjustment Rider Regulated Rate Option Rider Transmission Access Charge Deferral Account Rider Adjustment
EPCOR, AB	Balancing Pool Rider Local Access Fee SAS True-Up Rider Transmission Charge Deferral Account True-Up Rider Utility Payment Deferral Program
Eversource Energy, MA	Attorney General Consultant Expense 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
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 Transition Credit
Hydro Ottawa, ON	Capacity Based Recovery Disposition of Deferral/Variance Accounts Disposition of Global Adjustment Account (2022) Lost Revenue Adjustment Mechanism Recovery Rate Rider for Group 2 Accounts Rural or Remote Electricity Rate Protection Charge Smart Metering Entity Charge
Maritime Electric, PE	Energy Cost Adjustment Mechanism

Nashville Electric Service, TN	Pandemic Recovery 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 Charges Energy Cost Recovery Amount New System Generation Charge Nuclear Decommissioning Public Purpose Programs Reliability Services Transmission Rate Adjustments Wildfire Fund Charge Wildfire Hardening Charge
Pacific Power and Light, OR	Adjustment Associated with the Pacific Northwest Electric Power Planning and Conservation Act Base Supply Service Community Solar Start-Up Cost Recovery Adjustment Deer Creek Mine Closure Deferred Amounts Adjustment Federal Tax Act 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 Property Sales Balancing Account Adjustment Public Purpose Charge Power Cost Adjustment Mechanism Rate Mitigation Adjustment Renewable Adjustment Clause Renewable Resource Deferral Adjustment Replaced Meter Deferred Amounts Adjustment System Benefits Charge TAM Adjustment for Other Revenues
Toronto Hydro, ON	Capacity Based Recovery (CBR) Disposition of Accounts Receivable Credits Disposition of Derecognition Variance Account Disposition of Expansion Deposits Disposition of Stranded Meter Assets Disposition of Wireless Pole Attachment Revenue Recovery of Monthly Billing Transition Costs Rural or Remote Electricity Rate Protection Charge Smart Metering Entity Charge

# C

## Appendix

### **Applicable Taxes**

Residential Customers

General-Rate Customers

Industrial Customers



## TAXES APPLICABLE TO RESIDENTIAL CUSTOMERS

On April 1, 2022

	Tax	% (or other)	Applicable
<b>Canadian Cities</b>			
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
<b>American Cities</b>			
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/ Regulatory assessment fee	2.638	To base amount of bill
	Franchise fee	5.955	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	4.9098	To other components
	Sales tax	4.5	To base amount of bill + gross receipts tax
Portland, OR	Multnomah County business income tax	0.25	To a portion of base amount of bill
	City of Portland franchise tax	1.5	To a portion of base amount of bill
San Francisco, CA	Energy Commission tax	¢/kWh	To energy consumption
Seattle, WA	State utility tax	3.8734	Tax included in rate schedule prices
	City of Seattle occupation tax	6	Tax included in rate schedule prices

## TAXES APPLICABLE TO GENERAL-RATE CUSTOMERS

On April 1, 2022

Tax	% (or other)	Applicable
<b>Canadian Cities</b>		
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
<b>American Cities</b>		
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/ Regulatory assessment fee	2.638
	Franchise fee	5.955
	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-RATE CUSTOMERS (cont'd)

On April 1, 2022

	Tax	% (or other)	Applicable
New York, NY	Commodity gross receipts tax	2.4066	To commodity component
	Delivery gross receipts tax	2.4095	To other components
	Sales tax	8.875	To base amount of bill + gross receipts tax
Portland, OR	Multnomah County business income tax	0.25	To a portion of base amount of bill
	City of Portland franchise tax	1.5	To a portion of base amount of bill
San Francisco, CA	Energy Commission tax	¢/kWh	To energy consumption
	San Francisco utility users' tax	5	To base amount of bill
Seattle, WA	State utility tax	3.8734	Tax included in rate schedule prices
	City of Seattle occupation tax	6	Tax included in rate schedule prices

## TAXES APPLICABLE TO INDUSTRIAL CUSTOMERS

On April 1, 2022

Tax	% (or other)	Applicable
<b>Canadian Cities</b>		
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 <sup>1</sup> )
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)
<b>American Cities</b>		
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/ Regulatory assessment fee	2.638 To base amount of bill
	Franchise fee	5.955 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 CUSTOMERS (cont'd)

On April 1, 2022

	Tax	% (or other)	Applicable
New York, NY	Commodity gross receipts tax	2.4066	To commodity component
	Delivery gross receipts tax	2.4095	To other components
	Sales tax	8.875	To base amount of bill + gross receipts tax
Portland, OR	Multnomah County business income tax	0.25	To a portion of base amount of bill
	City of Portland franchise tax	1.5	To a portion of base amount of bill
San Francisco, CA	Energy Commission tax	¢/kWh	To energy consumption
	San Francisco utility users' tax	5	To base amount of bill
Seattle, WA	State utility tax	3.8734	Tax included in rate schedule prices
	City of Seattle occupation tax	6	Tax included in rate schedule prices

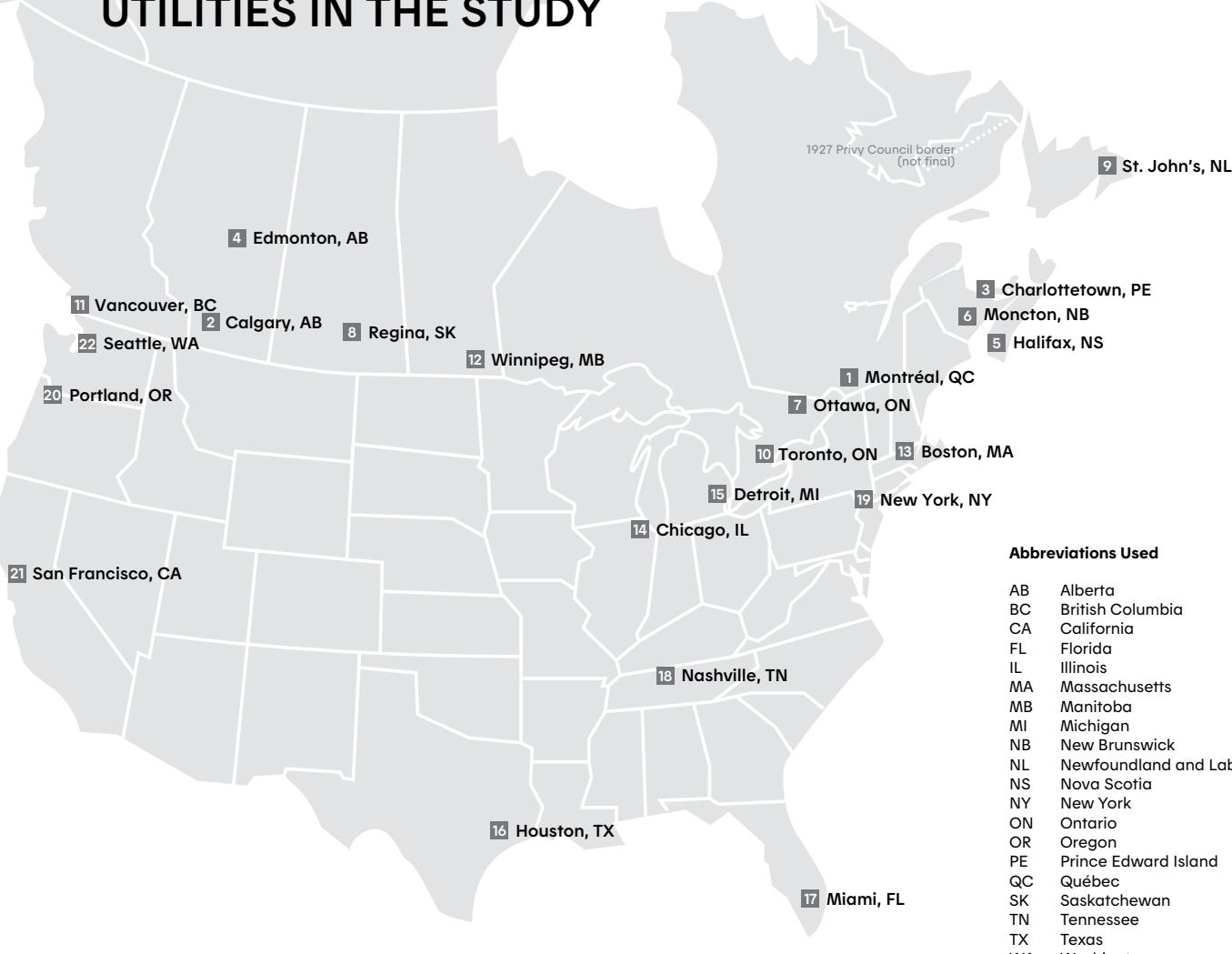


# D

## 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

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

Since December 2019, Hydro-Québec's rates have been subject to *An Act to simplify the process for establishing electricity distribution rates*, which called for a rate freeze from April 1, 2020, to March 31, 2021. For the period from 2021 to 2025, the Act provides for an annual adjustment of rates according to changes in the annual average Consumer Price Index for Québec except in the case of Rate L, which is 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 at a rate of 1.7% on April 1, 2022, while all other rates were indexed at a rate of 2.6%.

**Activities:** Generation, transmission and distribution

**Installed capacity:** 37,248 MW

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

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

**Distribution regulator:** Régie de l'énergie

**Wholesale market:** Open

**Retail market:** –

## ENMAX

Calgary, Alberta

**Activities:** Generation, transmission and distribution

**Installed capacity:** 1,601 MW

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

**Number of accounts:** More than 700,000

**Distribution regulator:** Alberta Utilities Commission

**Wholesale market:** Open

**Retail market:** Open

## MARITIME ELECTRIC

Charlottetown, Prince Edward Island

**Activities:** Distribution

**Installed capacity:** About 130 MW for reserve purposes

**Main sources:** Purchases from NB Power and PEI Energy Corporation

**Number of accounts:** About 86,000

**Distribution regulator:** Island Regulatory and Appeals Commission

**Wholesale market:** –

**Retail market:** –

## EPCOR

Edmonton, Alberta

**Activities:** Transmission and distribution

**Installed capacity:** –

**Main sources:** Market purchases

**Number of accounts:** About 600,000 customers in all, located throughout Alberta (including more than 413,000 in Edmonton) and in Simcoe County, Ontario (nearly 20,000 customers)

**Distribution regulator:** Alberta Utilities Commission

**Wholesale market:** Open

**Retail market:** Open

**NOVA SCOTIA POWER**

Halifax, Nova Scotia

**Activities:** Generation, transmission and distribution

**Installed capacity:** Over 2,400 MW

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

**Number of accounts:** More than 536,000 residential, commercial and industrial customers

**Distribution regulator:** Nova Scotia Utility and Review Board

**Wholesale market:** -

**Retail market:** -

**NB POWER**

Moncton, New Brunswick

**Activities:** Generation, transmission and distribution

**Installed capacity:** 3,790 MW

**Main sources:** Thermal (1,716 MW), hydropower (889 MW), nuclear (660 MW) and combustion turbines (525 MW)

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

**Distribution regulator:** New Brunswick Energy and Utilities Board

**Wholesale market:** -

**Retail market:** -

**HYDRO OTTAWA**

Ottawa, Ontario

**Activities:** Generation and distribution

**Installed capacity:** 128 MW (renewable energy)

**Main sources:** Purchases from Ontario Power Generation

**Number of accounts:** About 354,000

**Distribution regulator:** Ontario Energy Board

**Wholesale market:** Open

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

**SASKPOWER**

Regina, Saskatchewan

**Activities:** Generation, transmission and distribution

**Installed capacity:** 4,987 MW

**Main sources:** Natural gas (43%), coal (31%), hydropower (20%), wind (5%), solar and other (1%)

**Number of accounts:** About 545,000

**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:** Hydropower (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 273,000 customers throughout the island of Newfoundland

**Distribution regulator:** Newfoundland and Labrador Board of Commissioners of Public Utilities

**Wholesale market:** -

**Retail market:** -

## AMERICAN UTILITIES

### TORONTO HYDRO

Toronto, Ontario

**Activities:** Distribution

**Installed capacity:** -

**Main sources:** Purchases from Ontario Power Generation

**Number of accounts:** About 787,000

**Distribution regulator:** Ontario Energy Board

**Wholesale market:** Open

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

### BC HYDRO

Vancouver, British Columbia

**Activities:** Generation, transmission and distribution

**Installed capacity:** About 12,204 MW

**Main sources:** Hydropower generating stations (about 98%)

**Number of accounts:** More than 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:** 5,608 MW

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

**Number of accounts:** About 601,000

**Distribution regulator:** Manitoba Public Utilities Board

**Wholesale market:** -

**Retail market:** -

### 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:** More than 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:** More than 2.5 million

**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:** Natural gas, nuclear, solar and coal

**Number of accounts:** More than 5.7 million

**Distribution regulator:** Florida Public Service Commission

**Wholesale market:** Open

**Retail market:** -

**NASHVILLE ELECTRIC SERVICE**

Nashville, Tennessee

**Activities:** Distribution

**Installed capacity:** -

**Main sources:** Purchases from Tennessee Valley Authority

**Number of accounts:** More than 420,000

**Distribution regulator:** Tennessee Valley Authority

**Wholesale market:** -

**Retail market:** -

**CONSOLIDATED EDISON (ConEd)**

New York, New York

**Activities:** Distribution

**Installed capacity:** -

**Main sources:** Purchases from New York Independent System Operator

**Number of accounts:** 3.4 million customers in the New York metropolitan area and Westchester County

**Distribution regulator:** New York State Public Service Commission

**Wholesale market:** Open

**Retail market:** Open

**PACIFIC POWER AND LIGHT**

Portland, Oregon

**Activities:** Generation, transmission and distribution

**Installed capacity:** 11,550 MW

**Main sources:** Thermal, hydropower, wind and solar

**Number of accounts:** More than 791,000 customers across three states (Oregon, Washington and California)

**Distribution regulator:** Public Utility Commission of Oregon

**Wholesale market:** Open

**Retail market:** Partially open

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### **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, hydropower, solar and other generating stations

**Number of accounts:** 5.5 million

**Distribution regulator:** California Public Utilities Commission

**Wholesale market:** Open

**Retail market:** Partially open

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### **SEATTLE CITY LIGHT**

Seattle, Washington

**Activities:** Generation, transmission and distribution

**Installed capacity:** 2,006 MW

**Main sources:** Hydropower, wind, biogas and other generating stations and purchases from Bonneville Power Administration

**Number of accounts:** More than 478,000 customers in Seattle and surrounding communities

**Distribution regulator:** City of Seattle

**Wholesale market:** Open

**Retail market:** -

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### **Information sources**

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



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