



## COMPARISON OF ELECTRICITY PRICES IN MAJOR NORTH AMERICAN CITIES

Rates in effect April 1, 2014



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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, 2014. 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 section 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</sup>

(IN ¢/KWH)<sup>2</sup>



1) For a monthly consumption of 1,000 kWh; rates in effect April 1, 2014.

2) In Canadian dollars.

# MAJOR NORTH AMERICAN CITIES

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



1) For a monthly consumption of 3,060,000 kWh and a power demand of 5,000 kW; rates in effect April 1, 2014.

2) In Canadian dollars.





## 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 nine 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 and confirmed in most cases by the utilities concerned.

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, 2014. The most recent rate adjustments applied by the utilities in the study between April 1, 2013, and April 1, 2014, 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, 2014, 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 53<sup>rd</sup> 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, 2014.

### 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, 2013, and April 1, 2014, even though base rates remained the same. Appendix B lists the adjustment clauses taken into account when calculating bills.

### EXCHANGE RATE

The exchange rate used to convert bills in U.S. dollars into Canadian dollars is \$0.9069 (CA\$1 = US\$0.9069), the rate in effect at noon on April 1, 2014. The Canadian dollar had thus depreciated by 7.8% relative to the U.S. dollar since April 1, 2013.



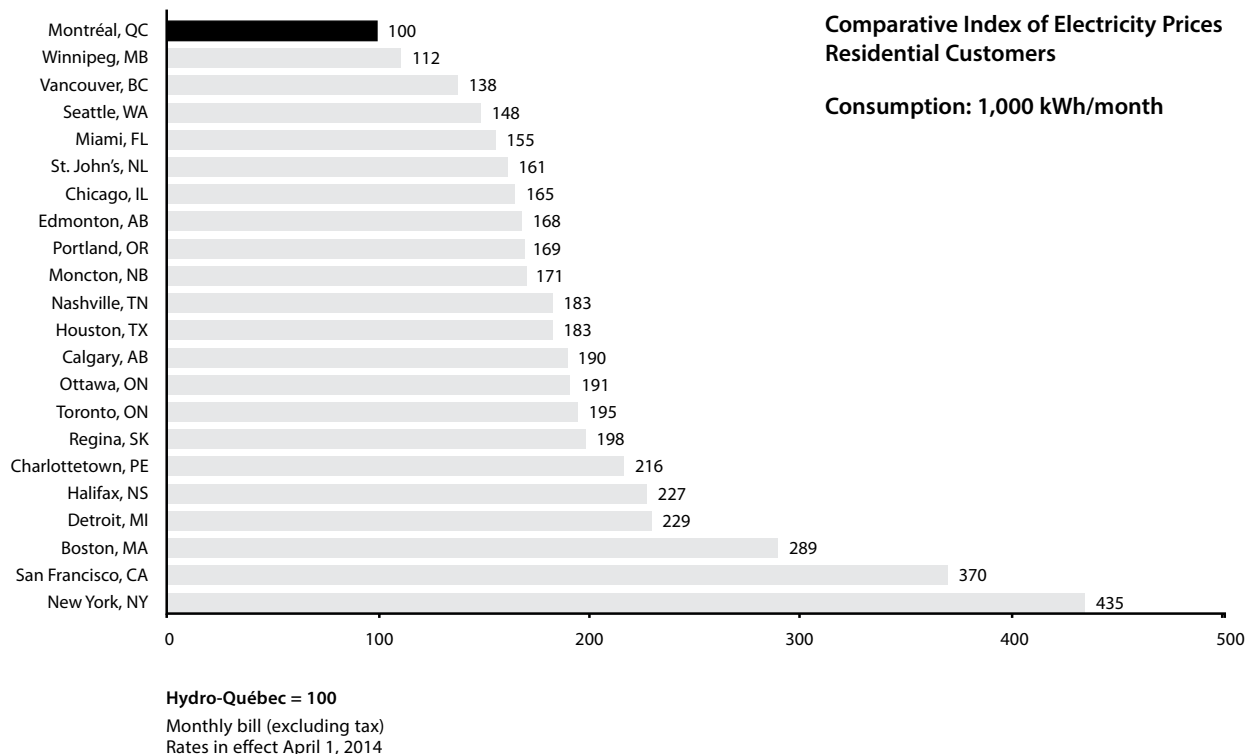
# HIGHLIGHTS

The *Distribution Tariff—Effective April 1, 2014* sets out Hydro-Québec’s rates, as approved by the Régie de l’énergie (the Québec energy board) in accordance with Decision D-2014-052. Three types of rates are in effect: domestic rates for residential customers, industrial rates 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.

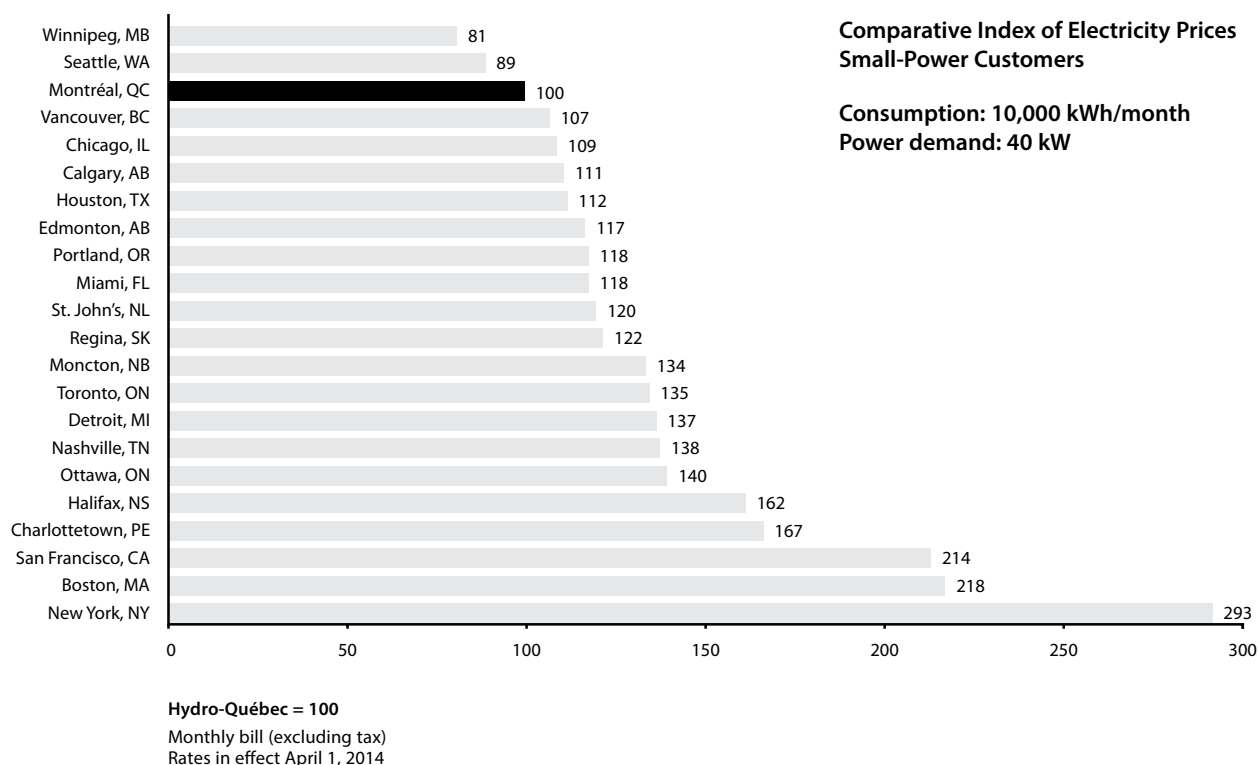
**FIGURE 1**



## 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 *third place*, as was the case last year. Figure 2 shows the comparative index of electricity prices.

**FIGURE 2**

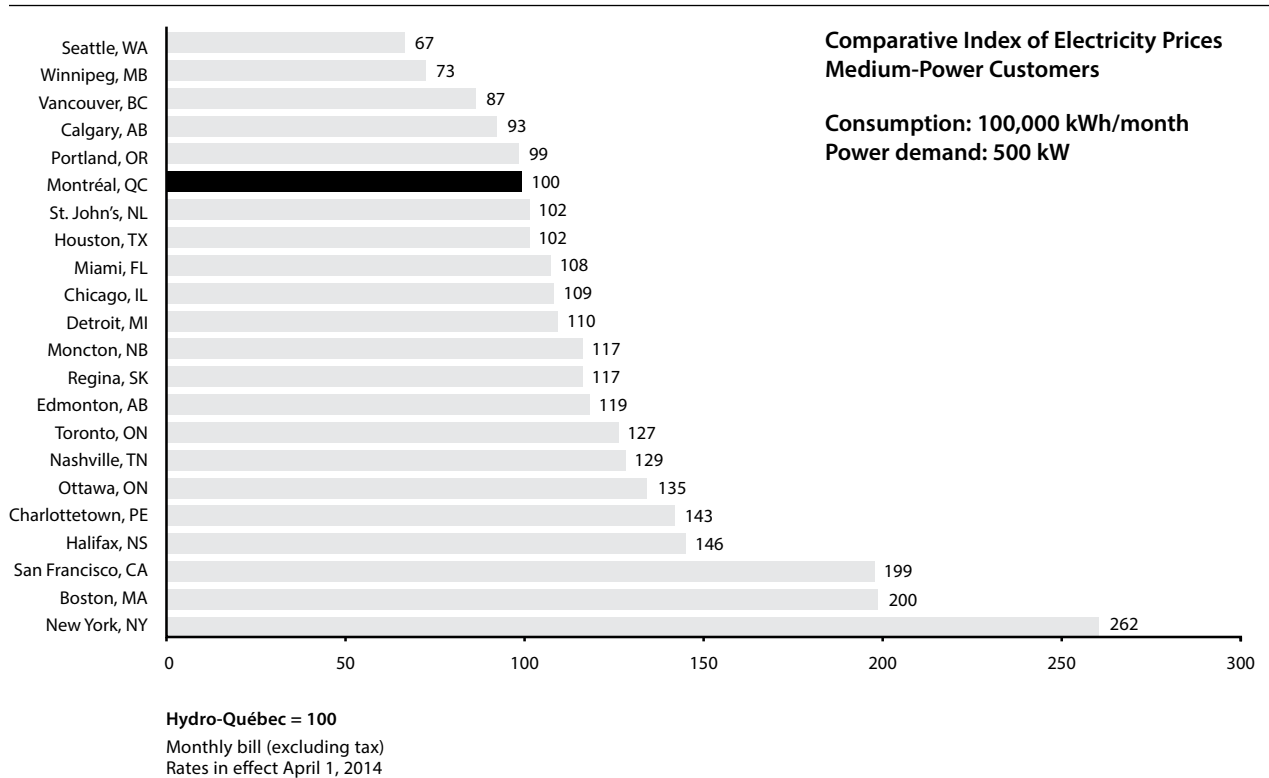


## MEDIUM-POWER CUSTOMERS (100 TO 5,000 KW)

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 in the other major North American cities. Figures 3, 4 and 5 show the comparative index of electricity prices for these consumption profiles.

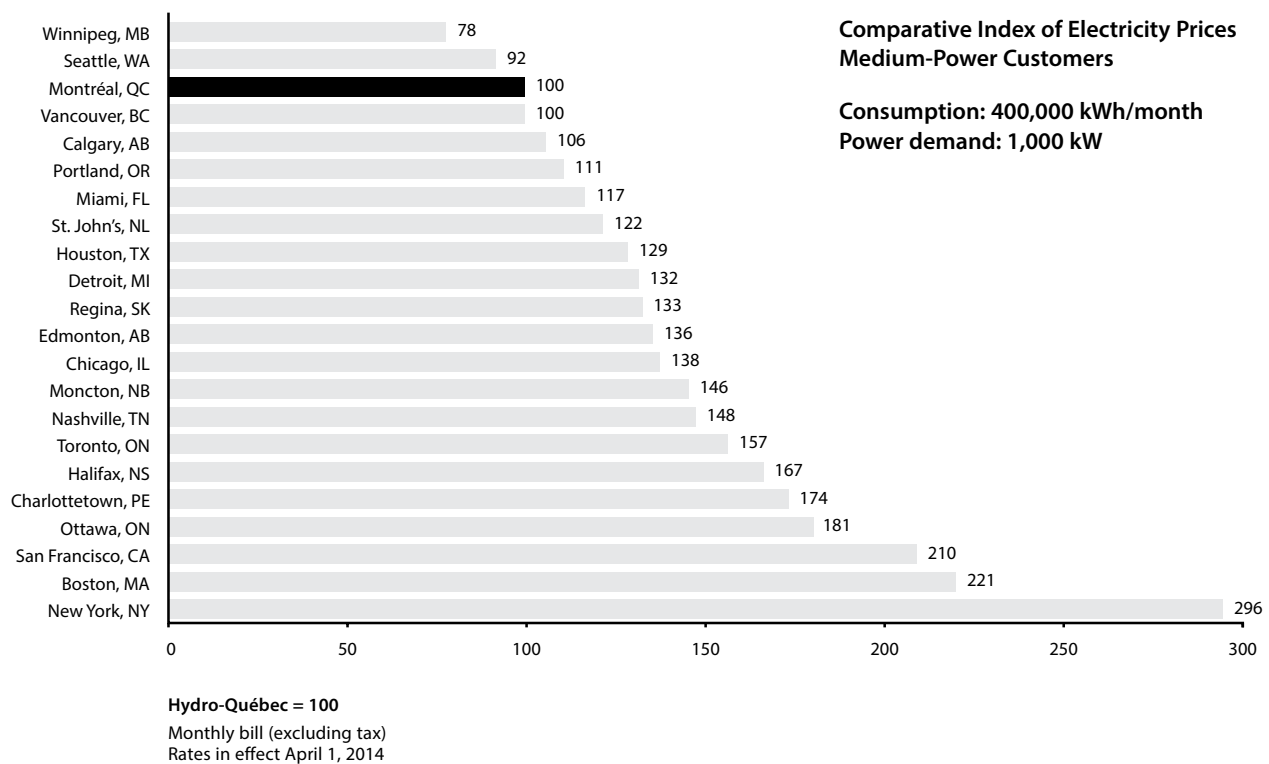
For medium-power customers with a monthly consumption of 100,000 kWh and a power demand of 500 kW, Montréal holds *sixth place*, compared to eighth place last year.

**FIGURE 3**



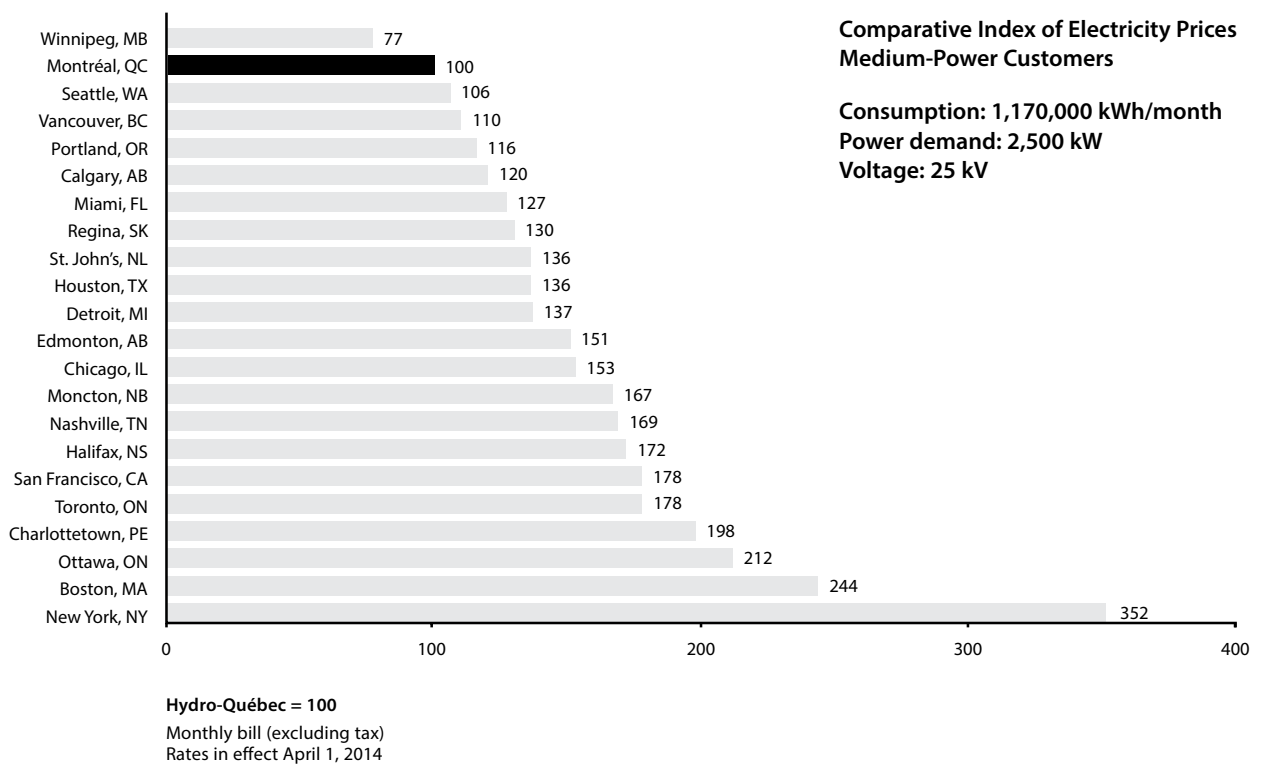
For customers with a monthly consumption of 400,000 kWh and a power demand of 1,000 kW, Montréal is in *third* place.

**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 ranks *second*.

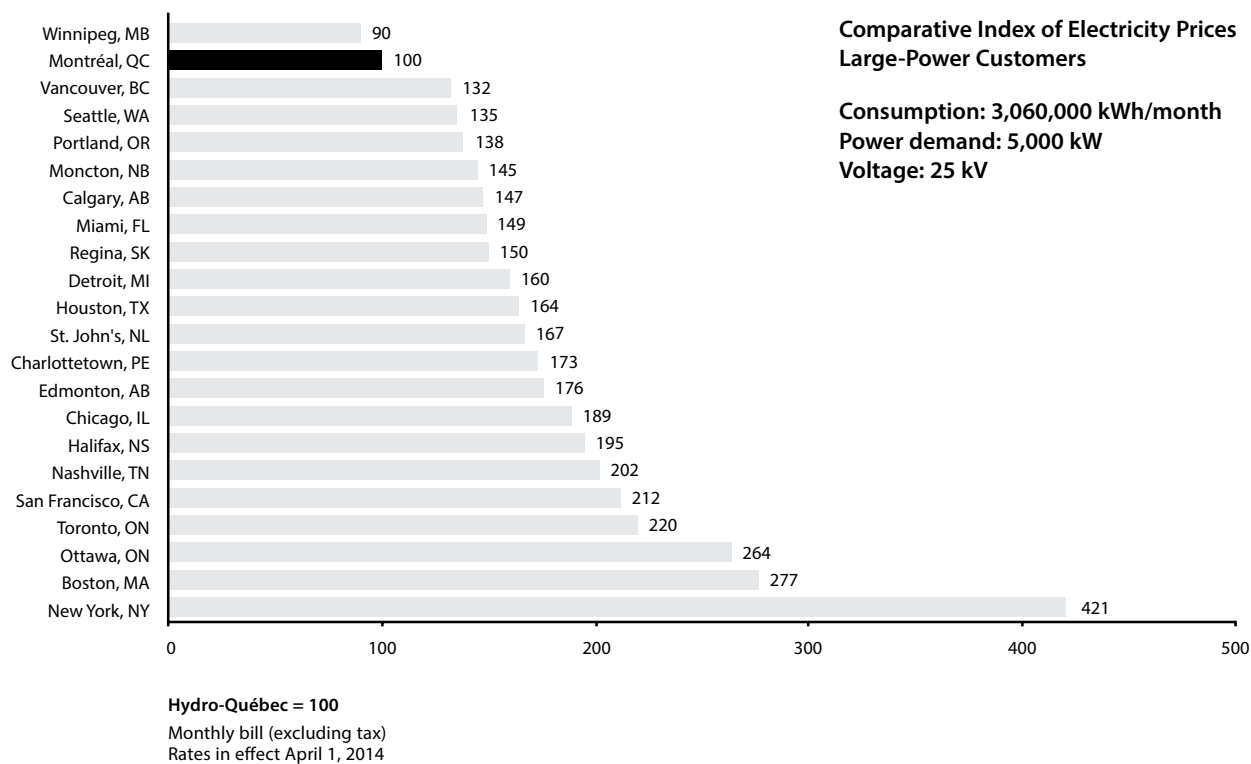
**FIGURE 5**



## 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 is in *second* place.

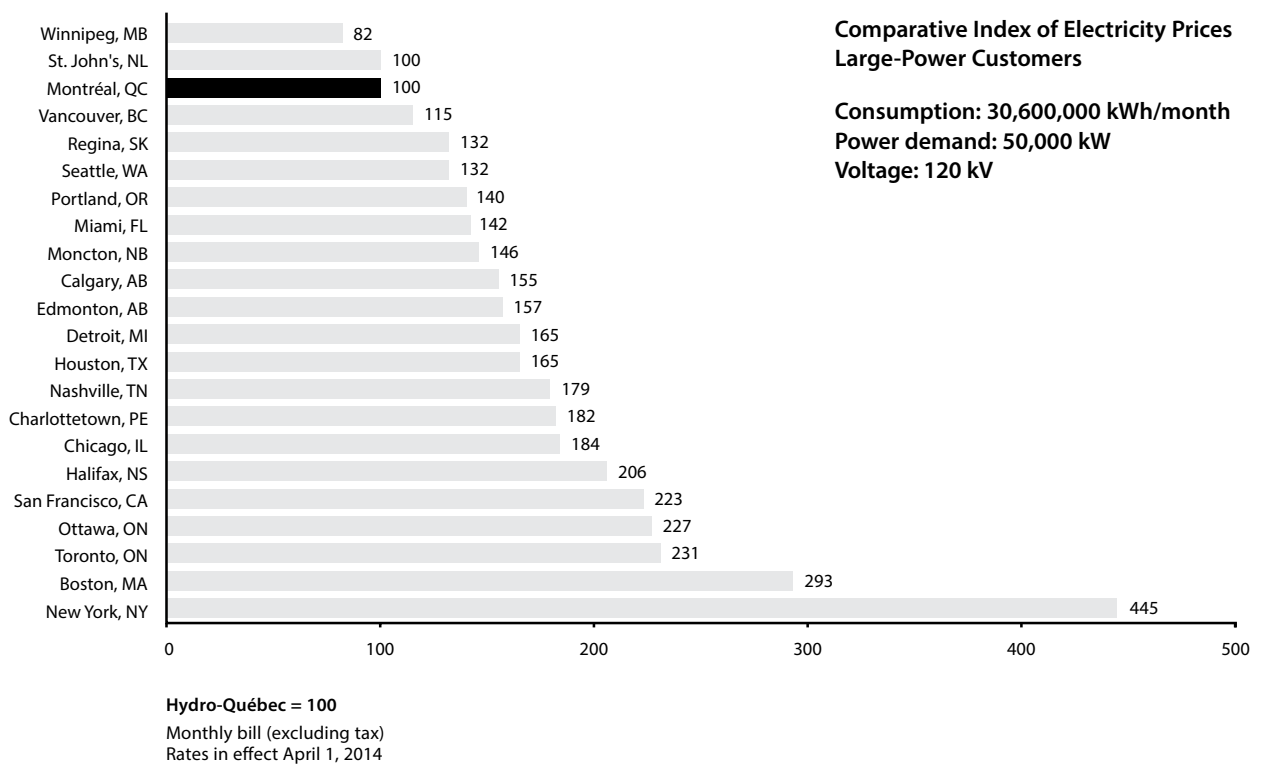
**FIGURE 6**





For industrial customers with a power demand of 50,000 kW and a load factor of 85%, Montréal now ranks *third*.

**FIGURE 7**





# 01

## DETAILED RESULTS

### SUMMARY TABLES (EXCLUDING TAXES)

Monthly Bills

Average Prices

Comparative Index



## MONTHLY BILLS ON APRIL 1, 2014

(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 <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%
<b>Canadian Cities</b>							
Montréal, QC	70.58	950.33	11,700.00	30,649.00	76,027.50	154,491.00	1,461,660.00
Calgary, AB	134.06	1,057.17	10,922.11	32,595.49	91,288.14	227,093.81	2,264,157.99
Charlottetown, PE <sup>3</sup>	152.37	1,591.67	16,733.47	53,328.47	150,165.47	266,504.00	2,665,040.00
Edmonton, AB <sup>4</sup>	118.79	1,110.60	13,900.70	41,592.12	114,495.55	271,377.24	2,298,565.30
Halifax, NS	160.30	1,538.40	17,089.50	51,303.00	130,637.55	301,779.09	3,017,814.84
Moncton, NB	120.58	1,270.35	13,658.35	44,773.35	126,769.35	224,533.49	2,141,100.00
Ottawa, ON	134.49	1,329.24	15,794.41	55,452.84	161,155.17	407,293.24	3,324,978.00
Regina, SK	139.53	1,160.93	13,706.34	40,612.59	98,972.17	231,426.70	1,932,905.82
St. John's, NL <sup>5</sup>	113.39	1,139.15	11,896.08	37,260.07	103,090.33	257,755.86	1,458,856.00
Toronto, ON	137.84	1,280.19	14,875.41	48,157.96	135,617.96	340,457.83	3,376,059.46
Vancouver, BC	97.07	1,014.75	10,207.41	30,740.16	83,762.70	203,833.41	1,686,953.52
Winnipeg, MB	78.92	773.70	8,564.66	23,847.41	58,888.00	138,975.00	1,197,329.00
<b>American Cities</b>							
Boston, MA	204.18	2,071.93	23,409.22	67,705.05	185,366.98	427,875.02	4,276,397.49
Chicago, IL <sup>3</sup>	116.10	1,037.81	12,708.16	42,166.41	116,138.80	292,724.75	2,689,776.75
Detroit, MI <sup>3</sup>	161.95	1,302.09	12,897.64	40,389.09	104,067.51	247,671.15	2,405,708.49
Houston, TX <sup>3</sup>	129.07	1,060.20	11,979.51	39,496.27	103,250.16	254,075.77	2,416,889.40
Miami, FL <sup>3</sup>	109.35	1,118.56	12,594.50	35,956.30	96,646.90	230,305.06	2,071,437.51
Nashville, TN	128.94	1,310.57	15,066.93	45,249.30	128,371.10	312,680.53	2,611,562.64
New York, NY <sup>3</sup>	307.36	2,782.37	30,614.94	90,809.32	267,980.96	650,215.13	6,501,111.40
Portland, OR <sup>3</sup>	119.32	1,117.95	11,570.25	34,152.95	87,843.10	213,681.38	2,050,079.00
San Francisco, CA <sup>3</sup>	261.50	2,037.38	23,335.99	64,454.62	135,214.36	327,677.06	3,257,207.28
Seattle, WA	104.36	842.46	7,884.31	28,257.96	80,663.28	209,048.66	1,934,355.91
<b>AVERAGE</b>	<b>140.91</b>	<b>1,313.54</b>	<b>14,595.90</b>	<b>44,497.71</b>	<b>119,836.96</b>	<b>281,430.69</b>	<b>2,592,724.81</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, 2014**  
(in ¢/kWh)<sup>1</sup>

Summary Table (excluding taxes)

	Residential	Small Power	Medium Power			Large Power	
Power demand		40 kW	500 kW	1,000 kW	2,500 kW <sup>2</sup>	5,000 kW <sup>2</sup>	50,000 kW <sup>3</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%
<b>Canadian Cities</b>							
Montréal, QC	7.06	9.50	11.70	7.66	6.50	5.05	4.78
Calgary, AB	13.41	10.57	10.92	8.15	7.80	7.42	7.40
Charlottetown, PE <sup>4</sup>	15.24	15.92	16.73	13.33	12.83	8.71	8.71
Edmonton, AB <sup>5</sup>	11.88	11.11	13.90	10.40	9.79	8.87	7.51
Halifax, NS	16.03	15.38	17.09	12.83	11.17	9.86	9.86
Moncton, NB	12.06	12.70	13.66	11.19	10.83	7.34	7.00
Ottawa, ON	13.45	13.29	15.79	13.86	13.77	13.31	10.87
Regina, SK	13.95	11.61	13.71	10.15	8.46	7.56	6.32
St. John's, NL <sup>6</sup>	11.34	11.39	11.90	9.32	8.81	8.42	4.77
Toronto, ON	13.78	12.80	14.88	12.04	11.59	11.13	11.03
Vancouver, BC	9.71	10.15	10.21	7.69	7.16	6.66	5.51
Winnipeg, MB	7.89	7.74	8.56	5.96	5.03	4.54	3.91
<b>American Cities</b>							
Boston, MA	20.42	20.72	23.41	16.93	15.84	13.98	13.98
Chicago, IL <sup>4</sup>	11.61	10.38	12.71	10.54	9.93	9.57	8.79
Detroit, MI <sup>4</sup>	16.20	13.02	12.90	10.10	8.89	8.09	7.86
Houston, TX <sup>4</sup>	12.91	10.60	11.98	9.87	8.82	8.30	7.90
Miami, FL <sup>4</sup>	10.94	11.19	12.59	8.99	8.26	7.53	6.77
Nashville, TN	12.89	13.11	15.07	11.31	10.97	10.22	8.53
New York, NY <sup>4</sup>	30.74	27.82	30.61	22.70	22.90	21.25	21.25
Portland, OR <sup>4</sup>	11.93	11.18	11.57	8.54	7.51	6.98	6.70
San Francisco, CA <sup>4</sup>	26.15	20.37	23.34	16.11	11.56	10.71	10.64
Seattle, WA	10.44	8.42	7.88	7.06	6.89	6.83	6.32
<b>AVERAGE</b>	<b>14.09</b>	<b>13.14</b>	<b>14.60</b>	<b>11.12</b>	<b>10.24</b>	<b>9.20</b>	<b>8.47</b>

1) In Canadian dollars.

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, 2014

(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 <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%
<b>Canadian Cities</b>							
Montréal, QC	100	100	100	100	100	100	100
Calgary, AB	190	111	93	106	120	147	155
Charlottetown, PE <sup>3</sup>	216	167	143	174	198	173	182
Edmonton, AB <sup>4</sup>	168	117	119	136	151	176	157
Halifax, NS	227	162	146	167	172	195	206
Moncton, NB	171	134	117	146	167	145	146
Ottawa, ON	191	140	135	181	212	264	227
Regina, SK	198	122	117	133	130	150	132
St. John's, NL <sup>5</sup>	161	120	102	122	136	167	100
Toronto, ON	195	135	127	157	178	220	231
Vancouver, BC	138	107	87	100	110	132	115
Winnipeg, MB	112	81	73	78	77	90	82
<b>American Cities</b>							
Boston, MA	289	218	200	221	244	277	293
Chicago, IL <sup>3</sup>	165	109	109	138	153	189	184
Detroit, MI <sup>3</sup>	229	137	110	132	137	160	165
Houston, TX <sup>3</sup>	183	112	102	129	136	164	165
Miami, FL <sup>3</sup>	155	118	108	117	127	149	142
Nashville, TN	183	138	129	148	169	202	179
New York, NY <sup>3</sup>	435	293	262	296	352	421	445
Portland, OR <sup>3</sup>	169	118	99	111	116	138	140
San Francisco, CA <sup>3</sup>	370	214	199	210	178	212	223
Seattle, WA	148	89	67	92	106	135	132
<b>AVERAGE</b>	<b>200</b>	<b>138</b>	<b>125</b>	<b>145</b>	<b>158</b>	<b>182</b>	<b>177</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, 2014

(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 <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%
<b>Canadian Cities</b>							
Montréal, QC	81.15	1,092.65	13,452.08	35,238.69	87,412.62	177,626.03	1,680,543.59
Calgary, AB	140.77	1,110.03	11,468.22	34,225.26	95,852.55	238,448.50	2,377,365.89
Charlottetown, PE <sup>3</sup>	173.70	1,814.50	19,076.16	60,794.46	171,188.64	303,814.56	3,038,145.60
Edmonton, AB <sup>4</sup>	124.73	1,166.13	14,595.74	43,671.73	120,220.33	284,946.10	2,413,493.57
Halifax, NS	168.32	1,769.16	19,652.93	58,998.45	150,233.18	347,045.95	3,470,487.07
Moncton, NB	136.26	1,435.50	15,433.94	50,593.89	143,249.37	253,722.84	2,419,443.00
Ottawa, ON	151.97	1,502.04	17,847.68	62,661.71	182,105.34	460,241.36	3,757,225.14
Regina, SK	160.46	1,398.92	16,516.13	48,938.16	119,261.46	278,869.17	2,329,151.52
St. John's, NL <sup>5</sup>	129.41	1,287.24	13,442.57	42,103.88	116,492.07	291,264.12	1,648,507.28
Toronto, ON	158.04	1,467.82	16,809.21	54,418.49	153,248.29	384,717.35	3,814,947.19
Vancouver, BC	103.92	1,136.52	11,432.30	34,428.98	93,814.22	228,293.42	1,889,387.94
Winnipeg, MB	91.15	912.98	10,106.29	28,139.94	65,179.00	155,096.00	1,276,353.00
<b>American Cities</b>							
Boston, MA	204.18	2,166.28	24,520.82	70,530.68	192,840.03	443,861.75	4,436,117.73
Chicago, IL <sup>3</sup>	132.51	1,165.99	13,855.68	46,499.63	128,344.19	323,252.39	2,960,664.54
Detroit, MI <sup>3</sup>	179.77	1,445.32	14,316.38	44,831.89	115,514.94	274,914.98	2,670,336.42
Houston, TX <sup>3</sup>	130.36	1,147.42	12,867.53	42,379.69	111,775.58	275,293.96	2,619,026.95
Miami, FL <sup>3</sup>	124.58	1,365.71	15,413.71	43,677.29	117,168.46	278,438.06	2,482,439.97
Nashville, TN	128.94	1,402.31	16,121.61	48,416.75	137,357.07	334,568.16	2,794,372.02
New York, NY <sup>3</sup>	333.79	3,106.92	34,187.22	101,387.92	299,060.81	725,587.39	7,254,710.86
Portland, OR <sup>3</sup>	121.14	1,135.12	11,748.61	34,675.35	89,217.03	217,032.10	2,082,278.55
San Francisco, CA <sup>3</sup>	281.43	2,193.38	25,118.17	69,416.63	145,729.58	353,231.37	3,511,283.18
Seattle, WA	104.36	842.46	7,884.31	28,257.96	80,663.28	209,048.66	1,934,355.91
<b>AVERAGE</b>	<b>152.77</b>	<b>1,457.47</b>	<b>16,175.79</b>	<b>49,285.79</b>	<b>132,542.18</b>	<b>310,877.92</b>	<b>2,857,301.68</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, 2014

(in ¢/kWh)<sup>1</sup>

Summary Table (including taxes)

	Residential	Small Power	Medium Power			Large Power	
Power demand		40 kW	500 kW	1,000 kW	2,500 kW <sup>2</sup>	5,000 kW <sup>2</sup>	50,000 kW <sup>3</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%
<b>Canadian Cities</b>							
Montréal, QC	8.12	10.93	13.45	8.81	7.47	5.80	5.49
Calgary, AB	14.08	11.10	11.47	8.56	8.19	7.79	7.77
Charlottetown, PE <sup>4</sup>	17.37	18.15	19.08	15.20	14.63	9.93	9.93
Edmonton, AB <sup>5</sup>	12.47	11.66	14.60	10.92	10.28	9.31	7.89
Halifax, NS	16.83	17.69	19.65	14.75	12.84	11.34	11.34
Moncton, NB	13.63	14.35	15.43	12.65	12.24	8.29	7.91
Ottawa, ON	15.20	15.02	17.85	15.67	15.56	15.04	12.28
Regina, SK	16.05	13.99	16.52	12.23	10.19	9.11	7.61
St. John's, NL <sup>6</sup>	12.94	12.87	13.44	10.53	9.96	9.52	5.39
Toronto, ON	15.80	14.68	16.81	13.60	13.10	12.57	12.47
Vancouver, BC	10.39	11.37	11.43	8.61	8.02	7.46	6.17
Winnipeg, MB	9.12	9.13	10.11	7.03	5.57	5.07	4.17
<b>American Cities</b>							
Boston, MA	20.42	21.66	24.52	17.63	16.48	14.51	14.50
Chicago, IL <sup>4</sup>	13.25	11.66	13.86	11.62	10.97	10.56	9.68
Detroit, MI <sup>4</sup>	17.98	14.45	14.32	11.21	9.87	8.98	8.73
Houston, TX <sup>4</sup>	13.04	11.47	12.87	10.59	9.55	9.00	8.56
Miami, FL <sup>4</sup>	12.46	13.66	15.41	10.92	10.01	9.10	8.11
Nashville, TN	12.89	14.02	16.12	12.10	11.74	10.93	9.13
New York, NY <sup>4</sup>	33.38	31.07	34.19	25.35	25.56	23.71	23.71
Portland, OR <sup>4</sup>	12.11	11.35	11.75	8.67	7.63	7.09	6.80
San Francisco, CA <sup>4</sup>	28.14	21.93	25.12	17.35	12.46	11.54	11.47
Seattle, WA	10.44	8.42	7.88	7.06	6.89	6.83	6.32
<b>AVERAGE</b>	<b>15.28</b>	<b>14.57</b>	<b>16.18</b>	<b>12.32</b>	<b>11.33</b>	<b>10.16</b>	<b>9.34</b>

1) In Canadian dollars.

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, 2014

(Hydro-Québec = 100)

Summary Table (including taxes)

	Residential	Small Power	Medium Power			Large Power	
Power demand Consumption Load factor	1,000 kWh	40 kW 10,000 kWh 35%	500 kW 100,000 kWh 28%	1,000 kW 400,000 kWh 56%	2,500 kW <sup>1</sup> 1,170,000 kWh 65%	5,000 kW <sup>1</sup> 3,060,000 kWh 85%	50,000 kW <sup>2</sup> 30,600,000 kWh 85%
<b>Canadian Cities</b>							
Montréal, QC	100	100	100	100	100	100	100
Calgary, AB	173	102	85	97	110	134	141
Charlottetown, PE <sup>3</sup>	214	166	142	173	196	171	181
Edmonton, AB <sup>4</sup>	154	107	109	124	138	160	144
Halifax, NS	207	162	146	167	172	195	207
Moncton, NB	168	131	115	144	164	143	144
Ottawa, ON	187	137	133	178	208	259	224
Regina, SK	198	128	123	139	136	157	139
St. John's, NL <sup>5</sup>	159	118	100	119	133	164	98
Toronto, ON	195	134	125	154	175	217	227
Vancouver, BC	128	104	85	98	107	129	112
Winnipeg, MB	112	84	75	80	75	87	76
<b>American Cities</b>							
Boston, MA	252	198	182	200	221	250	264
Chicago, IL <sup>3</sup>	163	107	103	132	147	182	176
Detroit, MI <sup>3</sup>	222	132	106	127	132	155	159
Houston, TX <sup>3</sup>	161	105	96	120	128	155	156
Miami, FL <sup>3</sup>	154	125	115	124	134	157	148
Nashville, TN	159	128	120	137	157	188	166
New York, NY <sup>3</sup>	411	284	254	288	342	408	432
Portland, OR <sup>3</sup>	149	104	87	98	102	122	124
San Francisco, CA <sup>3</sup>	347	201	187	197	167	199	209
Seattle, WA	129	77	59	80	92	118	115
<b>AVERAGE</b>	<b>188</b>	<b>133</b>	<b>120</b>	<b>140</b>	<b>152</b>	<b>175</b>	<b>170</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

Monthly Bills

Average Prices

Comparative Index





## RESIDENTIAL

### Monthly Bills on April 1, 2014 (in CA\$)

Consumption	625 kWh	750 kWh	1,000 kWh	2,000 kWh	3,000 kWh
<b>Canadian Cities</b>					
Montréal, QC	47.00	53.97	70.58	153.18	235.78
Calgary, AB	92.39	106.28	134.06	245.19	356.32
Charlottetown, PE <sup>1</sup>	104.45	120.42	152.37	280.17	378.67
Edmonton, AB	82.05	94.30	118.79	216.78	314.77
Halifax, NS	104.25	122.93	160.30	309.77	459.24
Moncton, NB	82.89	95.46	120.58	221.08	321.58
Ottawa, ON	87.63	103.25	134.49	259.45	384.41
Regina, SK	94.79	109.70	139.53	258.84	378.15
St. John's, NL <sup>2</sup>	76.20	88.60	113.39	212.58	311.76
Toronto, ON	93.11	108.02	137.84	257.10	376.37
Vancouver, BC	54.66	67.49	97.07	215.41	333.74
Winnipeg, MB	51.98	60.96	78.92	150.75	222.58
<b>American Cities</b>					
Boston, MA	130.27	154.91	204.18	401.26	598.35
Chicago, IL <sup>1</sup>	80.29	92.23	116.10	186.47	268.25
Detroit, MI <sup>1</sup>	100.79	121.18	161.95	325.04	488.13
Houston, TX <sup>1</sup>	95.17	110.13	129.07	248.75	368.43
Miami, FL <sup>1</sup>	71.48	84.10	109.35	233.32	357.29
Nashville, TN	85.48	99.97	128.94	244.83	360.73
New York, NY <sup>1</sup>	198.65	234.89	307.36	597.24	887.12
Portland, OR <sup>1</sup>	79.01	92.45	119.32	255.07	390.83
San Francisco, CA <sup>1</sup>	160.80	210.35	261.50	657.58	1,053.99
Seattle, WA	56.86	72.69	104.36	231.06	357.76
<b>AVERAGE</b>	<b>92.28</b>	<b>109.29</b>	<b>140.91</b>	<b>280.04</b>	<b>418.37</b>

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, 2014

(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	7.52	7.20	7.06	7.66	7.86
Calgary, AB	14.78	14.17	13.41	12.26	11.88
Charlottetown, PE <sup>2</sup>	16.71	16.06	15.24	14.01	12.62
Edmonton, AB	13.13	12.57	11.88	10.84	10.49
Halifax, NS	16.68	16.39	16.03	15.49	15.31
Moncton, NB	13.26	12.73	12.06	11.05	10.72
Ottawa, ON	14.02	13.77	13.45	12.97	12.81
Regina, SK	15.17	14.63	13.95	12.94	12.61
St. John's, NL <sup>3</sup>	12.19	11.81	11.34	10.63	10.39
Toronto, ON	14.90	14.40	13.78	12.86	12.55
Vancouver, BC	8.75	9.00	9.71	10.77	11.12
Winnipeg, MB	8.32	8.13	7.89	7.54	7.42
<b>American Cities</b>					
Boston, MA	20.84	20.65	20.42	20.06	19.94
Chicago, IL <sup>2</sup>	12.85	12.30	11.61	9.32	8.94
Detroit, MI <sup>2</sup>	16.13	16.16	16.20	16.25	16.27
Houston, TX <sup>2</sup>	15.23	14.68	12.91	12.44	12.28
Miami, FL <sup>2</sup>	11.44	11.21	10.94	11.67	11.91
Nashville, TN	13.68	13.33	12.89	12.24	12.02
New York, NY <sup>2</sup>	31.78	31.32	30.74	29.86	29.57
Portland, OR <sup>2</sup>	12.64	12.33	11.93	12.75	13.03
San Francisco, CA <sup>2</sup>	25.73	28.05	26.15	32.88	35.13
Seattle, WA	9.10	9.69	10.44	11.55	11.93
<b>AVERAGE</b>	<b>14.77</b>	<b>14.57</b>	<b>14.09</b>	<b>14.00</b>	<b>13.95</b>

1) In Canadian dollars.

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, 2014

(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	197	197	190	160	151
Charlottetown, PE <sup>1</sup>	222	223	216	183	161
Edmonton, AB	175	175	168	142	134
Halifax, NS	222	228	227	202	195
Moncton, NB	176	177	171	144	136
Ottawa, ON	186	191	191	169	163
Regina, SK	202	203	198	169	160
St. John's, NL <sup>2</sup>	162	164	161	139	132
Toronto, ON	198	200	195	168	160
Vancouver, BC	116	125	138	141	142
Winnipeg, MB	111	113	112	98	94
<b>American Cities</b>					
Boston, MA	277	287	289	262	254
Chicago, IL <sup>1</sup>	171	171	165	122	114
Detroit, MI <sup>1</sup>	214	225	229	212	207
Houston, TX <sup>1</sup>	202	204	183	162	156
Miami, FL <sup>1</sup>	152	156	155	152	152
Nashville, TN	182	185	183	160	153
New York, NY <sup>1</sup>	423	435	435	390	376
Portland, OR <sup>1</sup>	168	171	169	167	166
San Francisco, CA <sup>1</sup>	342	390	370	429	447
Seattle, WA	121	135	148	151	152
<b>AVERAGE</b>	<b>196</b>	<b>202</b>	<b>200</b>	<b>183</b>	<b>177</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

Monthly Bills

Average Prices

Comparative Index



## SMALL POWER

Monthly Bills on April 1, 2014  
(in CA\$)

Power demand Consumption Load factor	6 kW 750 kWh 17%	14 kW 2,000 kWh 20%	40 kW 10,000 kWh 35%	100 kW 14,000 kWh 19%	100 kW 25,000 kWh 35%
<b>Canadian Cities</b>					
Montréal, QC	82.68	199.93	950.33	1,762.20	2,584.50
Calgary, AB	130.26	273.42	1,057.17	1,661.05	2,338.45
Charlottetown, PE <sup>1</sup>	144.65	344.77	1,591.67	2,795.87	3,891.47
Edmonton, AB	95.41	232.60	1,110.60	1,988.35	2,831.17
Halifax, NS	126.57	310.40	1,538.40	2,707.44	3,846.00
Moncton, NB	113.68	267.55	1,270.35	2,210.55	3,170.85
Ottawa, ON	107.19	259.53	1,329.24	2,641.41	3,968.10
Regina, SK	112.44	254.13	1,160.93	2,194.91	2,989.50
St. John's, NL <sup>2</sup>	102.30	264.46	1,139.15	2,021.66	2,921.47
Toronto, ON	118.41	275.41	1,280.19	2,429.22	3,484.36
Vancouver, BC	86.49	219.32	1,014.75	1,734.00	2,509.67
Winnipeg, MB	75.79	170.10	773.70	1,546.11	2,024.29
<b>American Cities</b>					
Boston, MA	152.77	392.37	2,071.93	4,159.99	5,512.41
Chicago, IL <sup>1</sup>	100.37	235.83	1,037.81	1,715.58	2,546.67
Detroit, MI <sup>1</sup>	107.30	271.37	1,302.09	1,817.45	3,234.68
Houston, TX <sup>1</sup>	84.64	284.84	1,060.20	1,852.40	2,610.41
Miami, FL <sup>1</sup>	88.73	222.90	1,118.56	2,108.56	2,764.17
Nashville, TN	124.18	284.50	1,310.57	2,674.26	3,568.07
New York, NY <sup>1</sup>	240.39	777.81	2,782.37	5,266.56	6,895.64
Portland, OR <sup>1</sup>	106.31	250.39	1,117.95	1,872.20	2,743.49
San Francisco, CA <sup>1</sup>	162.82	416.07	2,037.38	3,268.86	4,865.22
Seattle, WA	63.18	168.49	842.46	1,175.92	1,910.98
<b>AVERAGE</b>	<b>114.84</b>	<b>289.83</b>	<b>1,313.54</b>	<b>2,345.66</b>	<b>3,327.80</b>

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, 2014

(in ¢/kWh)<sup>1</sup>

Power demand Consumption Load factor	6 kW 750 kWh 17%	14 kW 2,000 kWh 20%	40 kW 10,000 kWh 35%	100 kW 14,000 kWh 19%	100 kW 25,000 kWh 35%
<b>Canadian Cities</b>					
Montréal, QC	11.02	10.00	9.50	12.59	10.34
Calgary, AB	17.37	13.67	10.57	11.86	9.35
Charlottetown, PE <sup>2</sup>	19.29	17.24	15.92	19.97	15.57
Edmonton, AB	12.72	11.63	11.11	14.20	11.32
Halifax, NS	16.88	15.52	15.38	19.34	15.38
Moncton, NB	15.16	13.38	12.70	15.79	12.68
Ottawa, ON	14.29	12.98	13.29	18.87	15.87
Regina, SK	14.99	12.71	11.61	15.68	11.96
St. John's, NL <sup>3</sup>	13.64	13.22	11.39	14.44	11.69
Toronto, ON	15.79	13.77	12.80	17.35	13.94
Vancouver, BC	11.53	10.97	10.15	12.39	10.04
Winnipeg, MB	10.11	8.51	7.74	11.04	8.10
<b>American Cities</b>					
Boston, MA	20.37	19.62	20.72	29.71	22.05
Chicago, IL <sup>2</sup>	13.38	11.79	10.38	12.25	10.19
Detroit, MI <sup>2</sup>	14.31	13.57	13.02	12.98	12.94
Houston, TX <sup>2</sup>	11.29	14.24	10.60	13.23	10.44
Miami, FL <sup>2</sup>	11.83	11.14	11.19	15.06	11.06
Nashville, TN	16.56	14.23	13.11	19.10	14.27
New York, NY <sup>2</sup>	32.05	38.89	27.82	37.62	27.58
Portland, OR <sup>2</sup>	14.17	12.52	11.18	13.37	10.97
San Francisco, CA <sup>2</sup>	21.71	20.80	20.37	23.35	19.46
Seattle, WA	8.42	8.42	8.42	8.40	7.64
<b>AVERAGE</b>	<b>15.31</b>	<b>14.49</b>	<b>13.14</b>	<b>16.75</b>	<b>13.31</b>

1) In Canadian dollars.

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, 2014

(Hydro-Québec = 100)

Power demand Consumption Load factor	6 kW 750 kWh 17%	14 kW 2,000 kWh 20%	40 kW 10,000 kWh 35%	100 kW 14,000 kWh 19%	100 kW 25,000 kWh 35%
<b>Canadian Cities</b>					
Montréal, QC	100	100	100	100	100
Calgary, AB	158	137	111	94	90
Charlottetown, PE <sup>1</sup>	175	172	167	159	151
Edmonton, AB	115	116	117	113	110
Halifax, NS	153	155	162	154	149
Moncton, NB	137	134	134	125	123
Ottawa, ON	130	130	140	150	154
Regina, SK	136	127	122	125	116
St. John's, NL <sup>2</sup>	124	132	120	115	113
Toronto, ON	143	138	135	138	135
Vancouver, BC	105	110	107	98	97
Winnipeg, MB	92	85	81	88	78
<b>American Cities</b>					
Boston, MA	185	196	218	236	213
Chicago, IL <sup>1</sup>	121	118	109	97	99
Detroit, MI <sup>1</sup>	130	136	137	103	125
Houston, TX <sup>1</sup>	102	142	112	105	101
Miami, FL <sup>1</sup>	107	111	118	120	107
Nashville, TN	150	142	138	152	138
New York, NY <sup>1</sup>	291	389	293	299	267
Portland, OR <sup>1</sup>	129	125	118	106	106
San Francisco, CA <sup>1</sup>	197	208	214	185	188
Seattle, WA	76	84	89	67	74
<b>AVERAGE</b>	<b>139</b>	<b>145</b>	<b>138</b>	<b>133</b>	<b>129</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

Monthly Bills

Average Prices

Comparative Index



## MEDIUM POWER

### Monthly Bills on April 1, 2014

(in CA\$)

Power demand Consumption Load factor	500 kW 100,000 kWh 28%	500 kW 200,000 kWh 56%	1,000 kW 200,000 kWh 28%	1,000 kW 400,000 kWh 56%	2,500 kW <sup>1</sup> 1,170,000 kWh 65%
<b>Canadian Cities</b>					
Montréal, QC	11,700.00	16,455.00	23,400.00	30,649.00	76,027.50
Calgary, AB	10,922.11	16,608.26	21,223.20	32,595.49	91,288.14
Charlottetown, PE <sup>2</sup>	16,733.47	26,693.47	33,408.47	53,328.47	150,165.47
Edmonton, AB <sup>3</sup>	13,900.70	21,724.43	25,944.68	41,592.12	114,495.55
Halifax, NS	17,089.50	25,651.50	34,179.00	51,303.00	130,637.55
Moncton, NB	13,658.35	22,388.35	27,313.35	44,773.35	126,769.35
Ottawa, ON	15,794.41	27,855.28	31,331.10	55,452.84	161,155.17
Regina, SK	13,706.34	20,316.34	27,392.59	40,612.59	98,972.17
St. John's, NL <sup>4</sup>	11,896.08	19,655.91	22,201.39	37,260.07	103,090.33
Toronto, ON	14,875.41	24,467.64	28,973.50	48,157.96	135,617.96
Vancouver, BC	10,207.41	15,310.41	20,534.16	30,740.16	83,762.70
Winnipeg, MB	8,564.66	12,021.66	16,933.41	23,847.41	58,888.00
<b>American Cities</b>					
Boston, MA	23,409.22	33,944.41	46,634.66	67,705.05	185,366.98
Chicago, IL <sup>2</sup>	12,708.16	21,497.31	25,183.01	42,166.41	116,138.80
Detroit, MI <sup>2</sup>	12,897.64	20,383.85	25,781.59	40,389.09	104,067.51
Houston, TX <sup>2</sup>	11,979.51	18,870.50	25,714.29	39,496.27	103,250.16
Miami, FL <sup>2</sup>	12,594.50	18,010.96	25,123.38	35,956.30	96,646.90
Nashville, TN	15,066.93	22,731.80	29,919.56	45,249.30	128,371.10
New York, NY <sup>2</sup>	30,614.94	45,424.76	61,189.69	90,809.32	267,980.96
Portland, OR <sup>2</sup>	11,570.25	17,871.12	22,093.40	34,152.95	87,843.10
San Francisco, CA <sup>2</sup>	23,335.99	33,728.20	44,769.20	64,454.62	135,214.36
Seattle, WA	7,884.31	14,566.67	14,959.55	28,257.96	80,663.28
<b>AVERAGE</b>	<b>14,595.90</b>	<b>22,553.54</b>	<b>28,827.42</b>	<b>44,497.71</b>	<b>119,836.96</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

### Average Prices on April 1, 2014

(in ¢/kWh)<sup>1</sup>

Power demand Consumption Load factor	500 kW 100,000 kWh 28%	500 kW 200,000 kWh 56%	1,000 kW 200,000 kWh 28%	1,000 kW 400,000 kWh 56%	2,500 kW <sup>2</sup> 1,170,000 kWh 65%
<b>Canadian Cities</b>					
Montréal, QC	11.70	8.23	11.70	7.66	6.50
Calgary, AB	10.92	8.30	10.61	8.15	7.80
Charlottetown, PE <sup>3</sup>	16.73	13.35	16.70	13.33	12.83
Edmonton, AB <sup>4</sup>	13.90	10.86	12.97	10.40	9.79
Halifax, NS	17.09	12.83	17.09	12.83	11.17
Moncton, NB	13.66	11.19	13.66	11.19	10.83
Ottawa, ON	15.79	13.93	15.67	13.86	13.77
Regina, SK	13.71	10.16	13.70	10.15	8.46
St. John's, NL <sup>5</sup>	11.90	9.83	11.10	9.32	8.81
Toronto, ON	14.88	12.23	14.49	12.04	11.59
Vancouver, BC	10.21	7.66	10.27	7.69	7.16
Winnipeg, MB	8.56	6.01	8.47	5.96	5.03
<b>American Cities</b>					
Boston, MA	23.41	16.97	23.32	16.93	15.84
Chicago, IL <sup>3</sup>	12.71	10.75	12.59	10.54	9.93
Detroit, MI <sup>3</sup>	12.90	10.19	12.89	10.10	8.89
Houston, TX <sup>3</sup>	11.98	9.44	12.86	9.87	8.82
Miami, FL <sup>3</sup>	12.59	9.01	12.56	8.99	8.26
Nashville, TN	15.07	11.37	14.96	11.31	10.97
New York, NY <sup>3</sup>	30.61	22.71	30.59	22.70	22.90
Portland, OR <sup>3</sup>	11.57	8.94	11.05	8.54	7.51
San Francisco, CA <sup>3</sup>	23.34	16.86	22.38	16.11	11.56
Seattle, WA	7.88	7.28	7.48	7.06	6.89
<b>AVERAGE</b>	<b>14.60</b>	<b>11.28</b>	<b>14.41</b>	<b>11.12</b>	<b>10.24</b>

1) In Canadian dollars.

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, 2014

(Hydro-Québec = 100)

Power demand Consumption Load factor	500 kW 100,000 kWh 28%	500 kW 200,000 kWh 56%	1,000 kW 200,000 kWh 28%	1,000 kW 400,000 kWh 56%	2,500 kW <sup>1</sup> 1,170,000 kWh 65%
<b>Canadian Cities</b>					
Montréal, QC	100	100	100	100	100
Calgary, AB	93	101	91	106	120
Charlottetown, PE <sup>2</sup>	143	162	143	174	198
Edmonton, AB <sup>3</sup>	119	132	111	136	151
Halifax, NS	146	156	146	167	172
Moncton, NB	117	136	117	146	167
Ottawa, ON	135	169	134	181	212
Regina, SK	117	123	117	133	130
St. John's, NL <sup>4</sup>	102	119	95	122	136
Toronto, ON	127	149	124	157	178
Vancouver, BC	87	93	88	100	110
Winnipeg, MB	73	73	72	78	77
<b>American Cities</b>					
Boston, MA	200	206	199	221	244
Chicago, IL <sup>2</sup>	109	131	108	138	153
Detroit, MI <sup>2</sup>	110	124	110	132	137
Houston, TX <sup>2</sup>	102	115	110	129	136
Miami, FL <sup>2</sup>	108	109	107	117	127
Nashville, TN	129	138	128	148	169
New York, NY <sup>2</sup>	262	276	261	296	352
Portland, OR <sup>2</sup>	99	109	94	111	116
San Francisco, CA <sup>2</sup>	199	205	191	210	178
Seattle, WA	67	89	64	92	106
<b>AVERAGE</b>	<b>125</b>	<b>137</b>	<b>123</b>	<b>145</b>	<b>158</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

Monthly Bills

Average Prices

Comparative Index



## LARGE POWER

### Monthly Bills on April 1, 2014 (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 <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	131,667.00	154,491.00	280,920.00	850,368.00	1,233,420.00	1,461,660.00
Calgary, AB	180,294.11	227,093.81	430,033.27	1,304,195.91	1,796,161.01	2,264,157.99
Charlottetown, PE <sup>2</sup>	220,856.00	266,504.00	510,184.00	1,545,768.00	2,208,560.00	2,665,040.00
Edmonton, AB <sup>3</sup>	217,651.27	271,377.24	446,775.50	1,333,010.09	1,838,296.38	2,298,565.30
Halifax, NS	245,626.29	301,779.09	575,481.77	1,745,174.91	2,456,286.84	3,017,814.84
Moncton, NB	189,089.69	224,533.49	410,760.00	1,243,920.00	1,791,900.00	2,141,100.00
Ottawa, ON	322,788.42	407,293.24	702,672.75	1,951,188.82	2,641,670.16	3,324,978.00
Regina, SK	189,738.70	231,426.70	373,631.18	1,119,621.70	1,565,849.82	1,932,905.82
St. John's, NL <sup>4</sup>	203,544.62	257,755.86	482,408.41	844,435.20	1,194,184.00	1,458,856.00
Toronto, ON	272,559.96	340,457.83	643,797.01	1,947,688.52	2,697,080.81	3,376,059.46
Vancouver, BC	167,642.94	203,833.41	322,043.64	976,367.63	1,380,070.44	1,686,953.52
Winnipeg, MB	115,575.00	138,975.00	228,919.00	693,783.00	986,441.00	1,197,329.00
<b>American Cities</b>						
Boston, MA	353,141.08	427,875.02	818,121.66	2,478,753.45	3,529,058.00	4,276,397.49
Chicago, IL <sup>2</sup>	231,584.52	292,724.75	528,786.12	1,542,928.04	2,078,374.39	2,689,776.75
Detroit, MI <sup>2</sup>	207,756.41	247,671.15	461,685.70	1,397,472.47	2,010,530.80	2,405,708.49
Houston, TX <sup>2</sup>	204,460.62	254,075.77	460,377.54	1,393,874.88	1,928,613.84	2,416,889.40
Miami, FL <sup>2</sup>	193,061.15	230,305.06	398,955.22	1,204,564.02	1,737,266.48	2,071,437.51
Nashville, TN	257,985.73	312,680.53	509,197.16	1,526,495.84	2,257,357.75	2,611,562.64
New York, NY <sup>2</sup>	535,846.37	650,215.13	1,243,130.33	3,767,282.84	5,357,423.83	6,501,111.40
Portland, OR <sup>2</sup>	174,448.48	213,681.38	393,852.81	1,188,835.96	1,688,661.40	2,050,079.00
San Francisco, CA <sup>2</sup>	267,609.93	327,677.06	623,146.85	1,885,115.54	2,656,536.04	3,257,207.28
Seattle, WA	161,426.70	209,048.66	365,040.10	1,110,012.30	1,494,686.29	1,934,355.91
<b>AVERAGE</b>	<b>229,288.86</b>	<b>281,430.69</b>	<b>509,541.82</b>	<b>1,502,311.69</b>	<b>2,114,928.60</b>	<b>2,592,724.81</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

### Average Prices on April 1, 2014

(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%
<b>Canadian Cities</b>						
Montréal, QC	5.63	5.05	4.88	4.85	5.27	4.78
Calgary, AB	7.70	7.42	7.47	7.44	7.68	7.40
Charlottetown, PE <sup>3</sup>	9.44	8.71	8.86	8.82	9.44	8.71
Edmonton, AB <sup>4</sup>	9.30	8.87	7.76	7.61	7.86	7.51
Halifax, NS	10.50	9.86	9.99	9.96	10.50	9.86
Moncton, NB	8.08	7.34	7.13	7.10	7.66	7.00
Ottawa, ON	13.79	13.31	12.20	11.14	11.29	10.87
Regina, SK	8.11	7.56	6.49	6.39	6.69	6.32
St. John's, NL <sup>5</sup>	8.70	8.42	8.38	4.82	5.10	4.77
Toronto, ON	11.65	11.13	11.18	11.12	11.53	11.03
Vancouver, BC	7.16	6.66	5.59	5.57	5.90	5.51
Winnipeg, MB	4.94	4.54	3.97	3.96	4.22	3.91
<b>American Cities</b>						
Boston, MA	15.09	13.98	14.20	14.15	15.08	13.98
Chicago, IL <sup>3</sup>	9.90	9.57	9.18	8.81	8.88	8.79
Detroit, MI <sup>3</sup>	8.88	8.09	8.02	7.98	8.59	7.86
Houston, TX <sup>3</sup>	8.74	8.30	7.99	7.96	8.24	7.90
Miami, FL <sup>3</sup>	8.25	7.53	6.93	6.88	7.42	6.77
Nashville, TN	11.03	10.22	8.84	8.71	9.65	8.53
New York, NY <sup>3</sup>	22.90	21.25	21.58	21.50	22.89	21.25
Portland, OR <sup>3</sup>	7.46	6.98	6.84	6.79	7.22	6.70
San Francisco, CA <sup>3</sup>	11.44	10.71	10.82	10.76	11.35	10.64
Seattle, WA	6.90	6.83	6.34	6.34	6.39	6.32
<b>AVERAGE</b>	<b>9.80</b>	<b>9.20</b>	<b>8.85</b>	<b>8.57</b>	<b>9.04</b>	<b>8.47</b>

1) In Canadian dollars.

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, 2014

(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	137	147	153	153	146	155
Charlottetown, PE <sup>2</sup>	168	173	182	182	179	182
Edmonton, AB <sup>3</sup>	165	176	159	157	149	157
Halifax, NS	187	195	205	205	199	206
Moncton, NB	144	145	146	146	145	146
Ottawa, ON	245	264	250	229	214	227
Regina, SK	144	150	133	132	127	132
St. John's, NL <sup>4</sup>	155	167	172	99	97	100
Toronto, ON	207	220	229	229	219	231
Vancouver, BC	127	132	115	115	112	115
Winnipeg, MB	88	90	81	82	80	82
<b>American Cities</b>						
Boston, MA	268	277	291	291	286	293
Chicago, IL <sup>2</sup>	176	189	188	181	169	184
Detroit, MI <sup>2</sup>	158	160	164	164	163	165
Houston, TX <sup>2</sup>	155	164	164	164	156	165
Miami, FL <sup>2</sup>	147	149	142	142	141	142
Nashville, TN	196	202	181	180	183	179
New York, NY <sup>2</sup>	407	421	443	443	434	445
Portland, OR <sup>2</sup>	132	138	140	140	137	140
San Francisco, CA <sup>2</sup>	203	212	222	222	215	223
Seattle, WA	123	135	130	131	121	132
<b>AVERAGE</b>	<b>174</b>	<b>182</b>	<b>181</b>	<b>177</b>	<b>171</b>	<b>177</b>

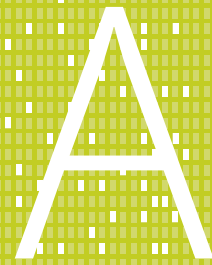
1) Customer-owned transformer.

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.





## APPENDIX RATE ADJUSTMENTS

Average Adjustments

Adjustments by  
Customer Category





## RATE ADJUSTMENTS

All Categories

	Before April 2013		Between April 1, 2013 and April 1, 2014		
	Year	%	Date	%	Comments
Canadian Utilities					
Hydro-Québec, QC	2013	2.41	April 1, 2014	4.2	
ENMAX, AB	2013	n.a.	January 1, 2014	22.6	Distribution component
Maritime Electric, PE	2013	2.2	March 1, 2014	2.2	Typical residential customer
EPCOR, AB	2013	n.a.	January 1, 2014	n.a.	
Nova Scotia Power, NS	2013	3.0	January 1, 2014	3.0	
NB Power, NB	2010	3.0	October 1, 2013	2.0	
Hydro Ottawa, ON	2013	n.a.	May 1, 2013 November 1, 2013 January 1, 2014	n.a. n.a. n.a.	
SaskPower, SK	2013	4.9	January 1, 2014	5.5	
Newfoundland Power, NL <sup>1</sup>	2012	6.64	July 1, 2013	-3.1	
Newfoundland and Labrador Hydro, NL <sup>1</sup>	2007	-18.3	—	—	
Toronto Hydro, ON	2011	n.a.	June 1, 2013	n.a.	Distribution component
BC Hydro, BC	2013	1.44	April 1, 2014	9.0	
Manitoba Hydro, MB	2012	2.4	May 1, 2013	3.5	
American Utilities					
NSTAR Electric & Gas, MA	n.a.	n.a.	n.a.	n.a.	
Commonwealth Edison, IL	n.a.	n.a.	n.a.	n.a.	
DTE Electric, MI	n.a.	n.a.	—	—	
CenterPoint Energy, TX	n.a.	n.a.	—	—	
Florida Power and Light, FL	2012	n.a.	April 1, 2014	n.a.	
Nashville Electric Service, TN	n.a.	n.a.	n.a.	n.a.	
Consolidated Edison, NY	n.a.	n.a.	March 1, 2014	n.a.	
Pacific Power and Light, OR	2013	0.3	January 1, 2014	n.a.	
Pacific Gas and Electric, CA	2013	n.a.	March 1, 2014	n.a.	
Seattle City Light, WA	2013	4.4	October 1, 2013 January 1, 2014	1.2 5.6	

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, 2013, and April 1, 2014)

Adjustments by Customer Category

	Date	Residential %	General %	Industrial %	Average %
<b>Canadian Utilities</b>					
Hydro-Québec, QC	April 1, 2014	4.3	4.8 <sup>1</sup> 3.8 <sup>2</sup> 5.3 <sup>3</sup>	3.5	4.2
ENMAX, AB	January 1, 2014	21.5	n.a.	n.a.	22.6 <sup>4</sup>
Maritime Electric, PE	March 1, 2014	2.2	n.a.	n.a.	n.a.
EPCOR, AB	January 1, 2014	n.a.	n.a.	n.a.	n.a.
Nova Scotia Power, NS	January 1, 2014	3.0	3.0	3.0	3.0
NB Power, NB	October 1, 2013	2.0	2.0	2.0	2.0
Hydro Ottawa, ON	May 1, 2013	3.54	3.28	0.84	n.a.
	November 1, 2013	3.56	3.76	—	n.a.
	January 1, 2014	1.05	1.01	-15.71	n.a.
SaskPower, SK	January 1, 2014	5.3	7.0	7.0	5.5
Newfoundland Power, NL <sup>5</sup>	July 1, 2013	-1.8	-5.8	-5.3	-3.1
Newfoundland and Labrador Hydro, NL <sup>5</sup>	—	—	—	—	—
Toronto Hydro, ON	June 1, 2013	2.0	0.6	0.6	n.a. <sup>4</sup>
BC Hydro, BC	April 1, 2014	9.0	9.0	9.0	9.0
Manitoba Hydro, MB	May 1, 2013	3.5	3.5	3.5	3.5
<b>American Utilities</b>					
NSTAR Electric & Gas, MA	n.a.	n.a.	n.a.	n.a.	n.a.
Commonwealth Edison, IL	n.a.	n.a.	n.a.	n.a.	n.a.
DTE Electric, MI	—	—	—	—	—
CenterPoint Energy, TX	—	—	—	—	—
Florida Power and Light, FL	April 1, 2014	n.a.	n.a.	n.a.	n.a.
Nashville Electric Service, TN	n.a.	n.a.	n.a.	n.a.	n.a.
Consolidated Edison, NY	March 1, 2014	n.a.	n.a.	n.a.	n.a.
Pacific Power and Light, OR	January 1, 2014	n.a.	n.a.	n.a.	n.a.
Pacific Gas and Electric, CA	March 1, 2014	n.a.	n.a.	n.a.	n.a.
Seattle City Light, WA	October 1, 2013	1.0	1.1 to 1.4	1.6	1.2
	January 1, 2014	6.3	3.4 to 5.4	6.1	5.6

n.a.: Not available.

1) Small power.

2) Medium power.

3) Large power.

4) Distribution component.

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.

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 2014 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
Hydro Ottawa, ON	All levels
Nashville Electric Service, TN	All levels
Newfoundland Power, NL	14–10,000 kW
NSTAR Electric & Gas, MA	General: All levels
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

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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	Deferral Account Rate Rider
CenterPoint Energy, TX	Accumulated Deferred Federal Income Tax Credit Advanced Metering System Surcharge 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	Advanced Metering Program Adjustment Capacity Charge Energy Assistance Charge for the Supplemental Low-Income Energy Assistance Fund Energy Efficiency and Demand Response Adjustments Environmental Cost Recovery Adjustment Hourly Purchased Electricity Adjustment Factor Miscellaneous Procurement Components Charge PJM Services Charges Purchased Electricity Adjustment Factor Purchased Electricity Charges Renewable Energy Resources and Coal Technology Development Assistance Charge Residential Real Time Pricing Program Cost Recovery Charges Uncollectible Cost Factors
Consolidated Edison, NY	Adjustment Factors – MSC and MAC Delivery Revenue Surcharge Market Supply Charge Merchant Function Charge Monthly Adjustment Clause Renewable Portfolio Standard Program Revenue Decoupling Mechanism Adjustment Surcharge to collect PSL Section 18-a Assessments System Benefits Charge
DTE Electric, MI	Energy Optimization Surcharge Low Income Energy Assistance Fund Factor Nuclear Decommissioning Surcharge Power Supply Cost Recovery Clause Rate Realignment Adjustment (U-16472 RRA) Renewable Energy Plan Surcharge Securitization Bond Charge and Securitization Bond Tax Charge Vulnerable Household Warmth Fund Credit

ENMAX, AB	Balancing Pool Allocation Refund Rider Distribution Access Service Adjustment Rider Local Access Fee Transmission Access Charge Deferral Account Rider
EPCOR, AB	Balancing Pool Rider Local Access Fee SAS True-Up Rider Transmission Charge Deferral Account True-Up Rider
Florida Power and Light, FL	Conservation Charge Capacity Payment Charge Environmental Charge Fuel Charge Storm Charge
Hydro Ottawa, ON	Debt Retirement Charge Deferral/Variance Accounts Disposition Rate Rider Disposition of Global Adjustment Account Rate Rider Ontario Clean Energy Benefit
Maritime Electric, PE	Energy Cost Adjustment Mechanism
Nashville Electric Service, TN	TVA Fuel Cost Adjustment
Newfoundland and Labrador Hydro, NL	Municipal Tax Adjustment Rate Stabilization Adjustment
Newfoundland Power, NL	Residential Energy Rebate
Nova Scotia Power, NS	Demand Side Management Cost Recovery Rider Fuel Adjustment Mechanism
NSTAR Electric & Gas, MA	Default Service Adjustment Demand-Side Management Charge Energy Efficiency Charges Miscellaneous Charges Pension Adjustment Reimbursable Transition Cost Renewable Energy Charge Residential Assistance Adjustment Clause Transition Cost Adjustment Transmission Service Cost Adjustment
Pacific Gas and Electric, CA	Competition Transition Charge DWR Bond Energy Cost Recovery Amount New System Generation Charge Nuclear Decommissioning Public Purpose Programs Reliability Services Transmission Rate Adjustments

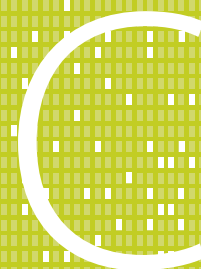
Pacific Power and Light, OR

Adjustment associated with the Pacific Northwest Electric Power  
Planning Conservation Act  
Distribution Safety Surcharge  
Energy Conservation Charge  
Independent Evaluator Cost Adjustment  
Intervenor Funding Adjustment  
Klamath Dam Removal Surcharges  
Low Income Bill Payment Assistance Fund  
Oregon Solar Incentive Program Deferral Supply Service Adjustment  
Power Cost Adjustment Mechanism  
Property Sales Balancing Account Adjustment  
Public Purpose Charge  
Rate Mitigation Adjustment  
Renewable Adjustment Clause Supply Service Adjustment  
Renewable Resource Deferral Supply Service Adjustment  
TAM Adjustment for Other Revenues

Toronto Hydro, ON

Application of Tax Change Rate Rider  
Debt Retirement Charge  
Disposition of Deferral/Variance Accounts Rate Rider  
Ontario Clean Energy Benefit  
Recovery of Foregone Revenue Rate Rider  
Recovery of Incremental Capital Module Costs Rate Rider  
Smart Meter Funding Adder and Rate Rider for Smart Metering Entity Charge





## APPENDIX APPLICABLE TAXES

Residential Sector

General Sector

Industrial Sector



## TAXES APPLICABLE TO RESIDENTIAL SERVICE

On April 1, 2014

	Tax	% (or other)	Applicable
<b>Canadian Cities</b>			
Montréal, QC	Goods and services tax (GST)	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	14	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	13	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
	Goods and services tax	5	To base amount of bill
St. John's, NL	Harmonized sales tax	13	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	8	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
<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
	Franchise cost	¢/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	Municipal tax	1	To base amount of bill
Miami, FL	Gross receipts tax	2.5641	To base amount of bill
	Franchise fee	3	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	5.2794	To other components
	Sales tax	4.5	To base amount of bill + gross receipts tax
Portland, OR	Multnomah County business income tax	0.15	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	0.029¢	To energy consumption
	San Francisco utility users' tax	7.5	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 GENERAL SERVICE

On April 1, 2014

	Tax	% (or other)	Applicable
<b>Canadian Cities</b>			
<b>Montréal, QC</b>	Goods and services tax (GST)	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	14	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	13	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	5	To base amount of bill + municipal tax
	Goods and services tax	5	To base amount of bill
St. John's, NL	Harmonized sales tax	13	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
	Provincial sales tax	7	To base amount of bill
Winnipeg, MB	Provincial sales tax	8	To base amount of bill (industries other than mining and manufacturing)
		1.6	To base amount of bill (mining and manufacturing industries)
	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 (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
	Franchise cost	¢/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
	County tax	0.5	To base amount of bill
Miami, FL	Gross receipts tax	2.5641	To base amount of bill
	Franchise fee	3	To base amount of bill + gross receipts tax
	Municipal tax	10	To a portion of base amount of bill
	State sales tax	7	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, 2014

	Tax	% (or other)	Applicable
New York, NY	Commodity gross receipts tax	2.4066	To commodity component
	Delivery gross receipts tax	2.7254	To other components
	Sales tax	8.875	To base amount of bill + gross receipts tax
Portland, OR	Multnomah County business income tax	0.15	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	0.029¢	To energy consumption
	San Francisco utility users' tax	7.5	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, 2014

	Tax	% (or other)	Applicable
<b>Canadian Cities</b>			
<b>Montréal, QC</b>	Goods and services tax (GST)	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	14	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	13	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	5	To base amount of bill + municipal tax
	Goods and services tax	5	To base amount of bill
St. John's, NL	Harmonized sales tax	13	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
	Provincial sales tax	7	To base amount of bill
Winnipeg, MB	Provincial sales tax	8	To base amount of bill (industries other than mining and manufacturing)
		1.6	To base amount of bill (mining and manufacturing industries)
	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 (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
	Franchise cost	¢/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
	County tax	0.5	To base amount of bill
Miami, FL	Gross receipts tax	2.5641	To base amount of bill
	Franchise fee	3	To base amount of bill + gross receipts tax
	Municipal tax	10	To a portion of base amount of bill
	State sales tax	7	To base amount of bill + gross receipts tax + franchise fee
	Local tax	1	To base amount of bill + gross receipts tax + franchise fee

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

2) Customers in the manufacturing sector are entitled to a partial refund of this tax, based on their taxable income.

## TAXES APPLICABLE TO INDUSTRIAL SERVICE (cont'd)

On April 1, 2014

	Tax	% (or other)	Applicable
Nashville, TN	State sales tax	7	To base amount of bill (companies other than manufacturing)
	State sales tax	1.5	To base amount of bill (manufacturing companies)
New York, NY	Commodity gross receipts tax	2.4066	To commodity component
	Delivery gross receipts tax	2.7254	To other components
	Sales tax	8.875	To base amount of bill + gross receipts tax
Portland, OR	Multnomah County business income tax	0.15	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	0.029¢	To energy consumption
	San Francisco utility users' tax	7.5	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



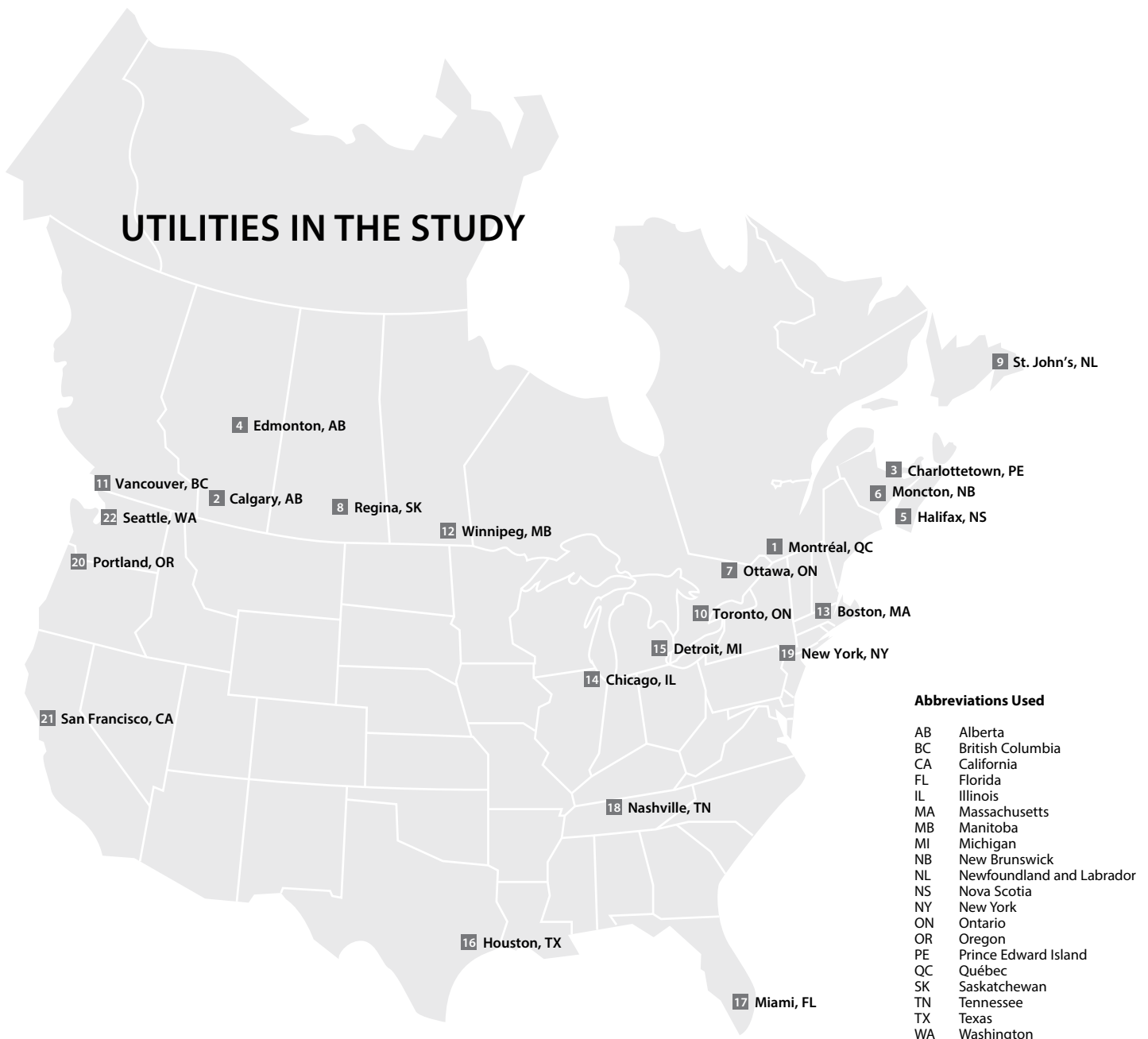


# D

## APPENDIX UTILITIES IN THE STUDY



# UTILITIES IN THE STUDY



## CANADIAN UTILITIES

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

## AMERICAN UTILITIES

- 13- NSTAR Electric & Gas
- 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 have been unbundled, Hydro-Québec is one of the largest electric utilities in North America, with an installed capacity of 36,068 MW; 99% of electricity is generated using waterpower. Its transmission and distribution activities are regulated. The utility distributes electricity to nearly 4 million residential, commercial, institutional and industrial customer accounts throughout Québec and delivers electricity to nine municipal systems and one regional cooperative. Hydro-Québec also does business with many electric utilities in the Northeastern United States, Ontario and New Brunswick.

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. For demand beyond that volume, needs have to be met through purchases on the market. The average supply cost of heritage pool electricity, set at a fixed price of 2.79¢/kWh since 1998, is indexed each year on January 1<sup>st</sup> since 2014 at a rate corresponding to the annual variation in the all-item consumer price index for Québec.

The Régie de l'énergie approved an average increase of 4.3% in the rates of Hydro-Québec Distribution, effective April 1, 2014, with the exception of Rate L, for which the increase is 3.5%. The Régie also approved introduction of the new Rate LG, which applies to general large-power customers. Rate L is reserved for large-power industrial customers and is exempt from the indexation of the supply cost of heritage pool electricity.

### MARITIME ELECTRIC

Charlottetown, Prince Edward Island

A subsidiary of Fortis Inc., Maritime Electric is the principal supplier of electricity on Prince Edward Island, with some 77,000 customers. Since its two power plants (with a total capacity of 150 MW) are operated strictly for reserve purposes, it purchases most of its electricity from NB Power, with which it has long-term contracts, and through additional short-term contracts on the New England wholesale market. Maritime Electric also purchases nearly 52 MW of wind-generated electricity from private producers.

Since the adoption of the *Electric Power Act* on January 1, 2004, Maritime Electric has had to submit all requests for rate increases to the Island Regulatory and Appeals Commission. In December 2012, the Act was amended to reflect the terms of maintaining the *PEI Energy Accord* for the next three years, from March 1, 2013, to February 29, 2016. The rate increase for residential customers and business customers in the General – Small Power category was set at 2.2% per year during this period.

### ENMAX

#### EPCOR

Calgary, Alberta  
Edmonton, Alberta

ENMAX Corporation is a wholly owned subsidiary of the City of Calgary. It generates, transmits and distributes electricity to approximately 836,000 customers throughout the province. In addition to its active participation in Alberta's restructured electricity industry, ENMAX serves customers who are eligible for the City of Calgary's regulated rate option tariff.

EPCOR Utilities, whose sole shareholder is the City of Edmonton, transmits and distributes electricity to more than 350,000 residential and business customers in Edmonton. It also supplies to more than 620,000 customers throughout the province who are eligible for a regulated rate option tariff.

Since July 1, 2010, prices under the regulated rate option tariff have fluctuated monthly with market forecasts, so customers' electricity bills have fluctuated to a greater degree.

### NOVA SCOTIA POWER

Halifax, Nova Scotia

Nova Scotia Power, a subsidiary of Emera, is the principal supplier of electricity in Nova Scotia, meeting most of the province's needs for electricity generation, transmission and distribution. It supplies electricity to 500,000 customers. Its generating facilities have an installed capacity in excess of 2,400 MW.

The open access transmission tariff came into effect on November 1, 2005. Under the province's energy policy, eligible customers have nondiscriminatory access to the utility's transmission system.

## **NB POWER**

Moncton, New Brunswick

A subsidiary of provincial Crown corporation NB Power Group, NB Power Distribution and Customer Service Corporation directly serves more than 349,000 customers and sells electricity to the province's municipal systems, which supply nearly 42,000 customers. NB Power has a generating capacity of about 3,500 MW under the management of NB Power Generation and NB Power Nuclear.

The New Brunswick electricity market has been partially open to competition since October 1, 2004. Large industrial customers and three municipal electricity distribution utilities are free to choose their supplier. However, other retail market customers continue to be served by NB Power.

## **SASKPOWER**

Regina, Saskatchewan

Crown utility SaskPower directly serves more than 500,000 customers and sells wholesale electricity to municipal systems in Saskatchewan. The utility operates 18 power plants, with a net generating capacity of some 3,500 MW.

In Saskatchewan, the wholesale electricity market has been open to competition since 2001. In October 2009, SaskPower adopted a supply strategy that calls for the rehabilitation or replacement of some of its power plants or the construction of new facilities, with a view to increasing its generating capability by 4,100 MW by 2032.

## **NEWFOUNDLAND AND LABRADOR HYDRO**

(customers with a power demand of 30,000 kW or more)

### **NEWFOUNDLAND POWER** (all other customer categories)

St. John's, Newfoundland and Labrador

Newfoundland Power, a subsidiary of Fortis Inc., serves about 256,000 customers on the island of Newfoundland. Since it operates only small generating stations with a total installed capacity of less than 140 MW, it purchases 90% of its electricity from Newfoundland and Labrador Hydro (NLH), a subsidiary of Nalcor Energy that operates generating facilities with an installed capacity of 1,626 MW and a transmission system that serves the whole province. NLH also supplies remote regions, Labrador and large industrial customers. Aside from Newfoundland and Labrador Hydro, Nalcor Energy operates generating facilities with an installed capacity in excess of 5,600 MW.

In November 2005, the Newfoundland and Labrador government made public a discussion paper that serves as the basis for the province's energy policy. Security of supply and the regulatory framework are among the topics covered in the section on electricity. In 2007, the government released its long-term energy plan, which aims to achieve economic self-reliance and environmental sustainability.

## **TORONTO HYDRO HYDRO OTTAWA**

Toronto, Ontario

Ottawa, Ontario

A subsidiary of Hydro Ottawa Holding, whose sole shareholder is the City of Ottawa, Hydro Ottawa serves more than 315,000 customers. Toronto Hydro-Electric System is a subsidiary of city-owned Toronto Hydro Corporation and serves about 730,000 customers, or 18% of Ontario electricity consumers.

In Ontario, the wholesale and retail markets have been open to competition since May 2002. Electricity generation is the responsibility of Ontario Power Generation while transmission service is supplied by Hydro One.

Following the adoption of the *Electricity Restructuring Act* in December 2004, the Ontario Energy Board was given the mandate to regulate the supply of electricity and has produced a plan in this regard (Regulated Price Plan or RPP). Prices have been reviewed on May 1 each year since 2006 and adjusted six months later, if necessary.

## BC HYDRO

Vancouver, British Columbia

BC Hydro, a provincial Crown corporation, operates generating facilities with a total capacity of more than 12,000 MW. About 90% of electricity is generated using waterpower. The utility distributes electricity to approximately 1.9 million customers.

The wholesale market in British Columbia is open to competition, as is the retail market for some large industrial companies. When the market was opened up, generation, transmission and distribution were made into separate entities. The *Clean Energy Act* grouped transmission and distribution in July 2010 to ensure coordinated supply planning for the province. In November 2013, the government published a 10-year plan which provides for upgrading aging infrastructure, implementing new generation projects to meet growing demand and minimizing the impact of these activities on electricity rates.

## MANITOBA HYDRO

Winnipeg, Manitoba

Manitoba Hydro is a Crown utility serving nearly 549,000 customers throughout the province. Virtually all the electricity it generates and distributes comes from its 15 hydropower plants, which have a total capacity of 5,600 MW.

The wholesale electricity market has been open to competition since 1997 and Manitoba Hydro joined Midwest ISO, a regional transmission organization, in 2001.

## AMERICAN UTILITIES

### NSTAR ELECTRIC & GAS

Boston, Massachusetts

NSTAR serves 1.1 million residential and commercial customers in Boston and elsewhere in the state of Massachusetts. The utility purchases electricity on the market and concentrates on transmission and distribution.

Since March 1, 2005, NSTAR has applied basic service rates to the electricity commodity component for customers who have chosen not to purchase electricity from a competitor. These rates are adjusted every six months, or every three months in the case of large industrial customers. The rates reflect the average market price of electricity.

### COMMONWEALTH EDISON (ComEd)

Chicago, Illinois

ComEd, a subsidiary of Exelon Corporation, purchases, transmits and distributes electricity on the wholesale and retail markets. On the retail market, it serves more than 3.8 million customers in northern Illinois, or 70% of the state's population.

Since May 1, 2002, the retail market has been fully open for residential, commercial and industrial customers. However, it is only since 2011 that residential customers have actually exercised their right to choose distributors other than the two companies that were in place when deregulation was implemented: ComEd and Ameren.

### DTE ELECTRIC

Detroit, Michigan

DTE Electric operates generating facilities with a total installed capacity of almost 11,100 MW. A subsidiary of DTE Energy, it serves 2.1 million customers in southeastern Michigan.

Under the June 2000 legislation that restructured the electricity industry, all retail market customers in Michigan have been able to choose their electricity supplier since January 1, 2002.

## **CENTERPOINT ENERGY**

Houston, Texas

CenterPoint Energy concentrates on electricity transmission and distribution and delivering natural gas. It sells electricity to approximately 2.2 million customers in the Houston area.

The majority of Texas consumers have had access to an open retail market since January 1, 2002. As of January 2007, electricity distributors with effective monopolies are no longer obliged to maintain their rates above the “price to beat” designed to encourage new market entrants. Customers who have opted to continue doing business with the same distributor pay a monthly rate that varies according to the market price.

## **CONSOLIDATED EDISON (ConEd)**

New York, New York

ConEd of New York delivers electricity to 3.4 million customers and natural gas to nearly 1.1 million customers in and around New York City and Westchester County. This ConEd subsidiary operates the largest underground system in the world, which represents 72% of its distribution system.

When the electricity market was opened to competition in 1998, ConEd had to dispose of a large part of its generating capacity, which is now limited to about 700 MW. Rates, which continue to be regulated by the New York State Public Service Commission, are adjusted monthly to reflect the market price of electricity.

## **FLORIDA POWER AND LIGHT (FPL)**

Miami, Florida

FPL’s vast transmission and distribution system supplies more than 4.6 million customers. A subsidiary of NextEra Energy, the utility operates generating facilities with an installed capacity of 24,100 MW.

On April 1, 2010, FPL released its 2010–2019 strategic plan, in which it proposes to upgrade some of its nuclear plants and add new generating facilities using thermal and renewable energy. It will also rely on energy efficiency measures to meet the demand for power during the strategic plan time frame.

## **PACIFIC POWER AND LIGHT**

Portland, Oregon

Pacific Power and Light, a subsidiary of PacifiCorp, serves some 735,000 customers across three states, including more than 562,000 in Oregon. PacifiCorp operates generating facilities with an installed capacity of over 10,600 MW.

On March 1, 2002, the Oregon state government opened its retail market to competition for large commercial and industrial customers. Residential and small commercial customers have fewer suppliers to choose from, but they do have a range of options, including market-based rates, regulated rates or rates applicable to green energy.

## **NASHVILLE ELECTRIC SERVICE**

Nashville, Tennessee

Nashville Electric Service, whose sole shareholder is the City of Nashville, distributes the electricity that it purchases from the Tennessee Valley Authority (TVA) to more than 360,000 customers. A federal agency, the TVA supplies 155 distributors and nearly 60 large industrial and federal customers.

Close to 40% of the electricity produced by the TVA comes from its 10 coal-fired plants, with the rest from gas, nuclear and hydro plants. The TVA has also integrated renewables, including solar, wind and biomass, into its generation portfolio.

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## **PACIFIC GAS AND ELECTRIC (PG&E)**

San Francisco, California

Pacific Gas and Electric concentrates on the transmission and distribution of electricity and natural gas. A subsidiary of PG&E Corporation, it has 5.1 million electric customer accounts.

In 2001, California adopted emergency measures to mitigate the price volatility that followed the opening of the electricity market. Those measures allowed it to reinstate regulatory authority over production costs and to give responsibility for electricity purchases to the California Department of Water and Resources. Since January 1, 2003, PG&E has been authorized to again purchase energy and directly supply its customers.

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## **SEATTLE CITY LIGHT**

Seattle, Washington

Seattle City Light, whose shareholder is the City of Seattle, serves about 400,000 customers. It produces nearly 50% of the electricity it needs and purchases the rest from the Bonneville Power Administration (BPA), a northwestern U.S. federal agency that wholesales electricity produced by some 30 hydropower stations.

Six electric utilities in the Pacific Northwestern states, including Seattle City Light and BPA, got together in early 2006 to form the nonprofit ColumbiaGrid. The group's objective is to develop an integrated approach to the use and expansion of the region's interconnected transmission system.

### **Sources:**

Annual reports and Web sites of the Canadian and American utilities in the study.





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