



2020

Comparison of Electricity Prices in Major North American Cities

Rates in effect April 1, 2020

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INTRODUCTION

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

This report details the principal conclusions of this comparative analysis of prices in effect on April 1, 2020. There are three sections. The first describes the method used to estimate electricity bills. The second examines the highlights of the seven consumption levels analyzed, with the help of charts. Finally, the third presents the results of the 21 consumption levels for which data were collected and compiled in the form of summary and detailed tables.

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

MAJOR NORTH AMERICAN CITIES

AVERAGE PRICES FOR RESIDENTIAL CUSTOMERS^{1,2}

(IN ¢/kWh)³



Abbreviations Used

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

1) For a monthly consumption of 1,000 kWh; rates in effect April 1, 2020.

2) Average prices excluding taxes.

3) In Canadian currency.

MAJOR NORTH AMERICAN CITIES

AVERAGE PRICES FOR LARGE-POWER CUSTOMERS^{1,2}

(IN ¢/kWh)³



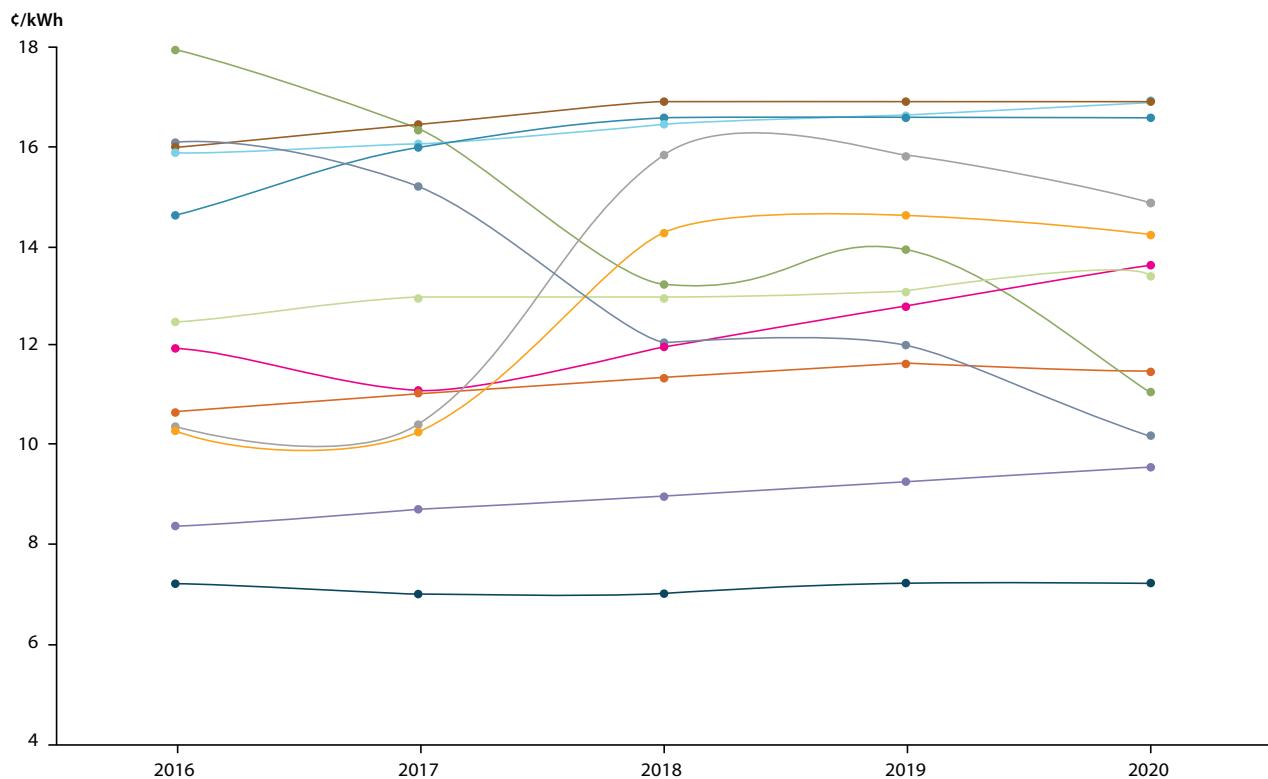
1) For a monthly consumption of 3,060,000 kWh and a power demand of 5,000 kW; rates in effect April 1, 2020.

2) Average prices excluding taxes.

3) In Canadian currency.

MAJOR CANADIAN CITIES

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



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

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

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

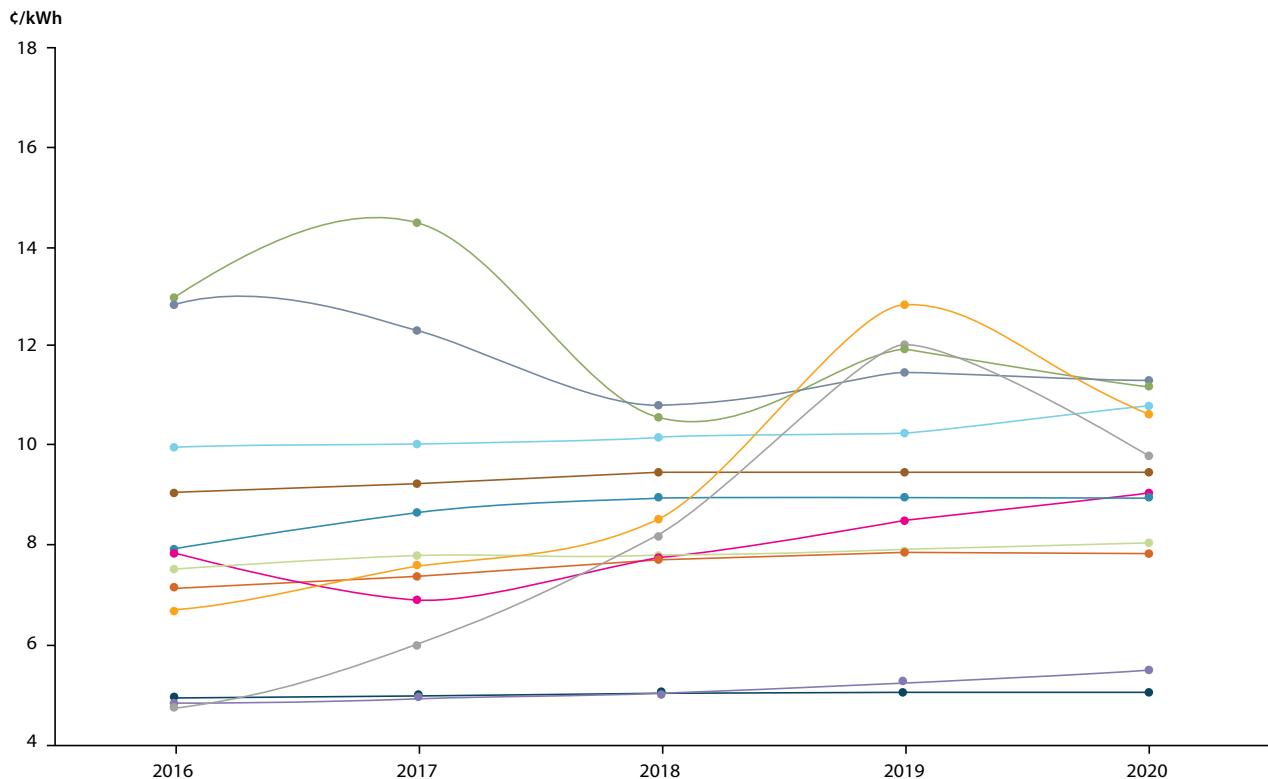
2) In Canadian currency.

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

4) Average prices excluding taxes.

MAJOR CANADIAN CITIES

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



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

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

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

2) In Canadian currency.

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

4) Average prices excluding taxes.

METHOD

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

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

PERIOD COVERED

Monthly bills have been calculated based on rates in effect on April 1, 2020. The most recent rate adjustments applied by the Canadian utilities in the study between April 1, 2019, and April 1, 2020, are shown in Appendix A.

CONSUMPTION LEVELS

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

TAXES

With the exception of the bills presented in Section 2, taxes are not included in any of the calculations. Appendix C lists taxes applicable on April 1, 2020, by customer category; those which may be partially or fully refundable are also indicated.

OPTIONAL PROGRAMS

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

GEOGRAPHIC LOCATION

Electricity distributors sometimes offer different rates in the various cities they serve. As well, taxes may vary from one region to another. This, however, is not the case in Québec, where, with the exception of territories north of the 53rd parallel, taxes and rates are applied uniformly. For the purposes of this study, the bill calculations estimate as closely as possible the actual electricity bills of consumers in each target city, based on rates in effect on April 1, 2020.

TIME-OF-USE RATES

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

ADJUSTMENT CLAUSES

The rates of some distributors include adjustment clauses that allow them to adjust their customers' electricity bills according to changes in different variables. Since these adjustments may be applied monthly, or over a longer period, the electricity bills issued by a given distributor may have varied between April 1, 2019, and April 1, 2020, even though base rates remained the same. Appendix B lists the adjustment clauses taken into account when calculating bills. In the midst of the COVID-19 pandemic, some utilities offered financial aid to their customers. Adjustment clauses and rate relief measures that are rolled into base rates and apply to certain customer categories have been considered.

EXCHANGE RATE

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

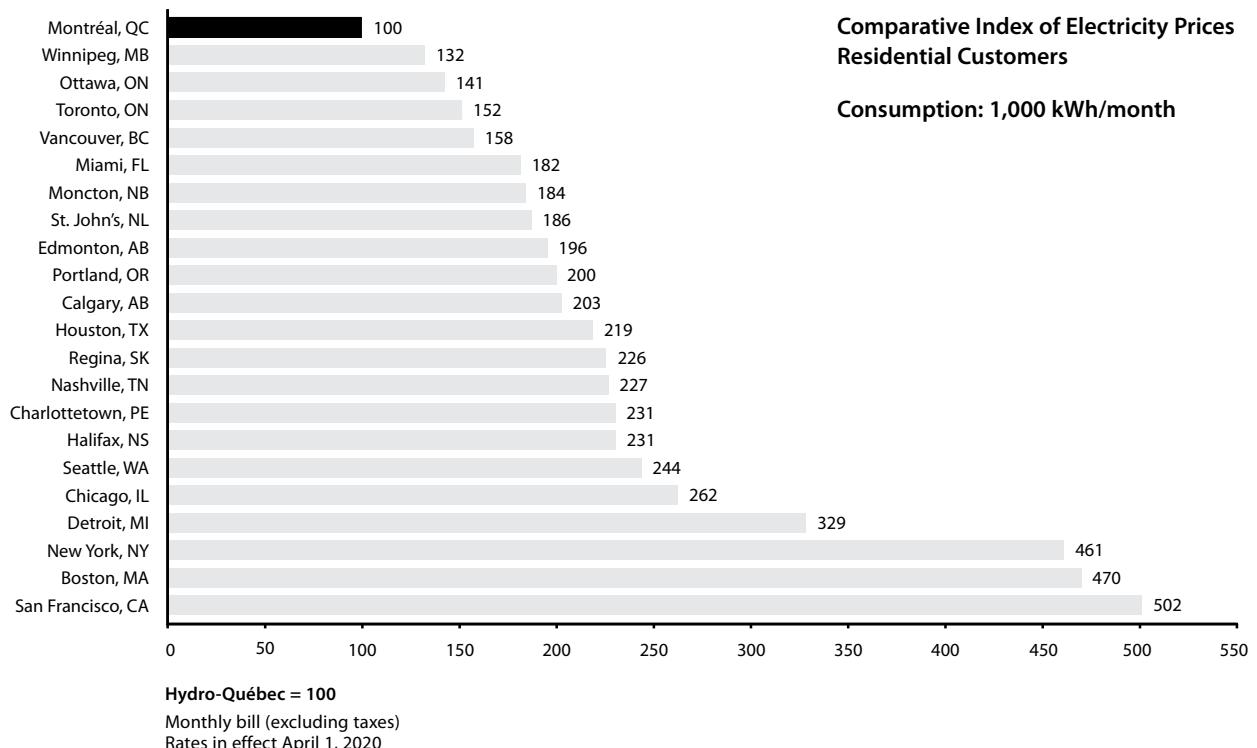
HIGHLIGHTS

The *Electricity Rates* effective April 1, 2019 sets out Hydro-Québec's rates, as approved by the Régie de l'énergie (the Québec energy board) in accordance with Decision D-2019-037. Three types of rates are in effect: domestic rates, for residential customers, the industrial rate, for large-power industrial customers, and general rates, for other customers. General rates are applied according to minimum billing demand: small power, medium power and large power. For comparison purposes, the electricity bills of the utilities in the study have been analyzed according to these customer categories. The industrial rate has been used to calculate the bills of large-power customers.

RESIDENTIAL CUSTOMERS

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

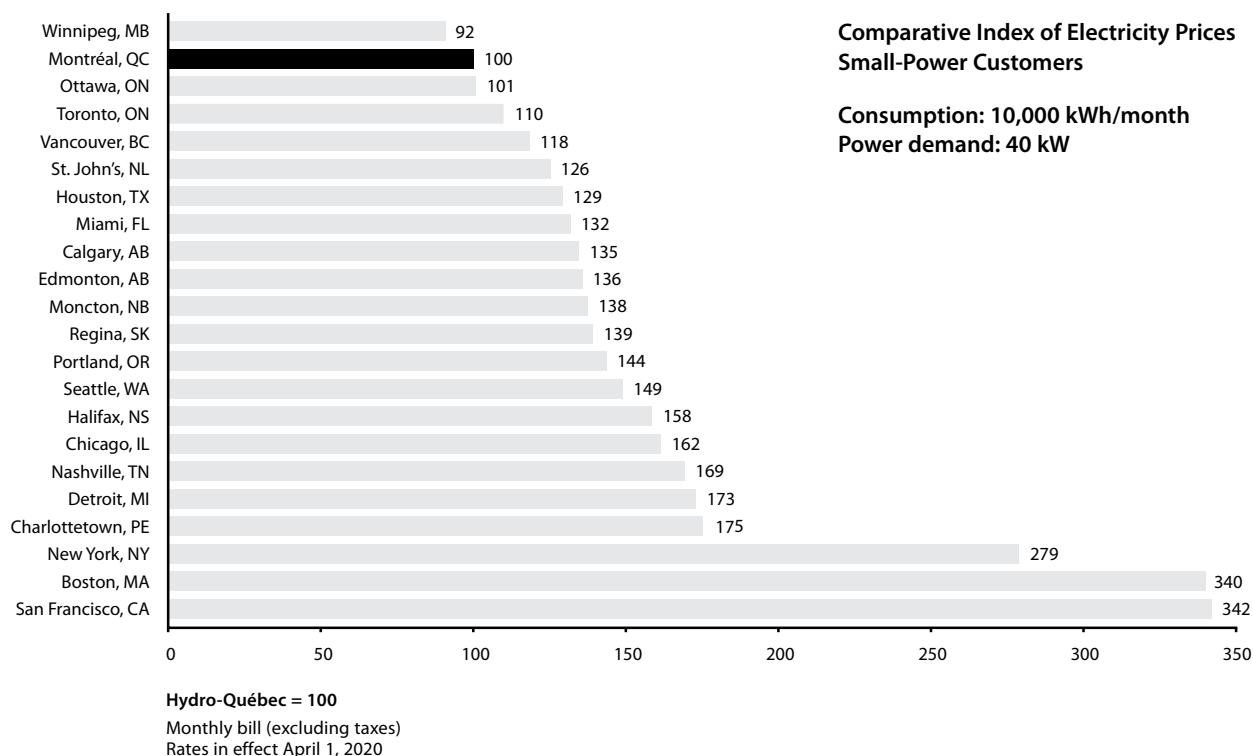
FIGURE 1



SMALL-POWER CUSTOMERS (LESS THAN 100 kW)

The comparison of bills for small-power customers is based on a monthly consumption of 10,000 kWh and a power demand of 40 kW. Montréal is in second place, as was the case for the last two years. Figure 2 shows the comparative index of electricity prices.

FIGURE 2

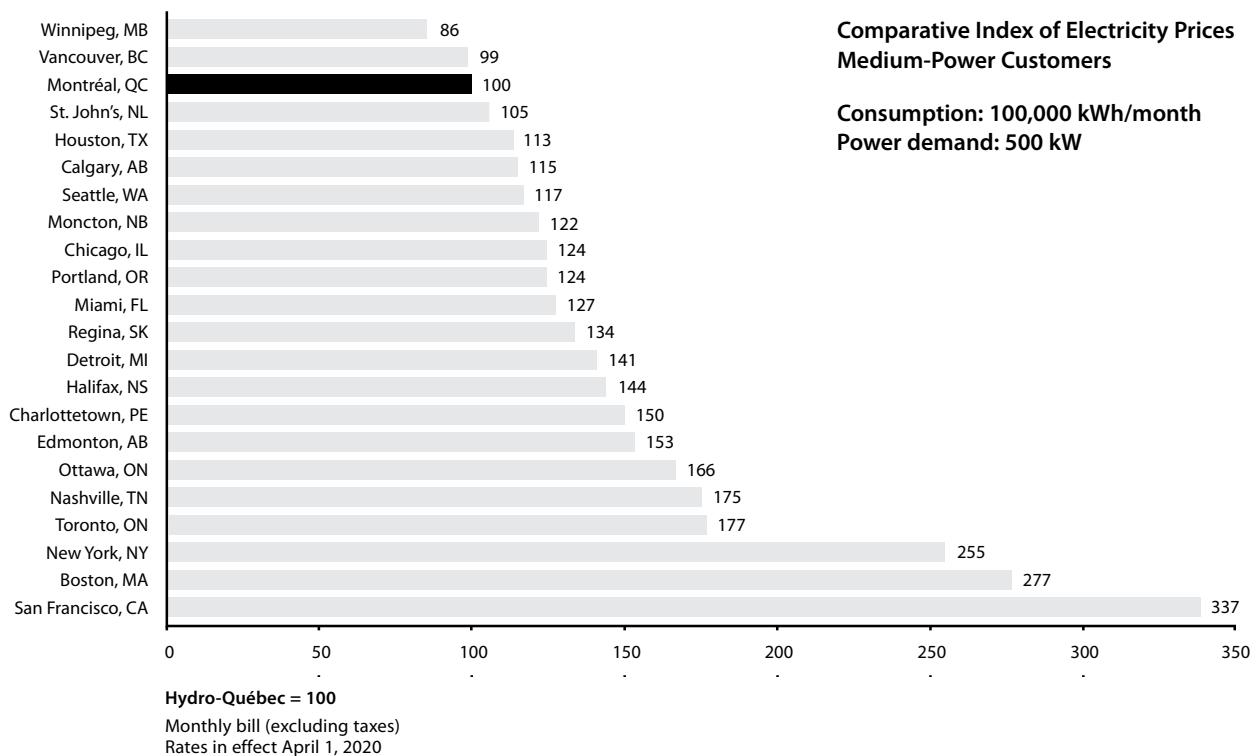


MEDIUM-POWER CUSTOMERS (100 TO 5,000 kW)

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

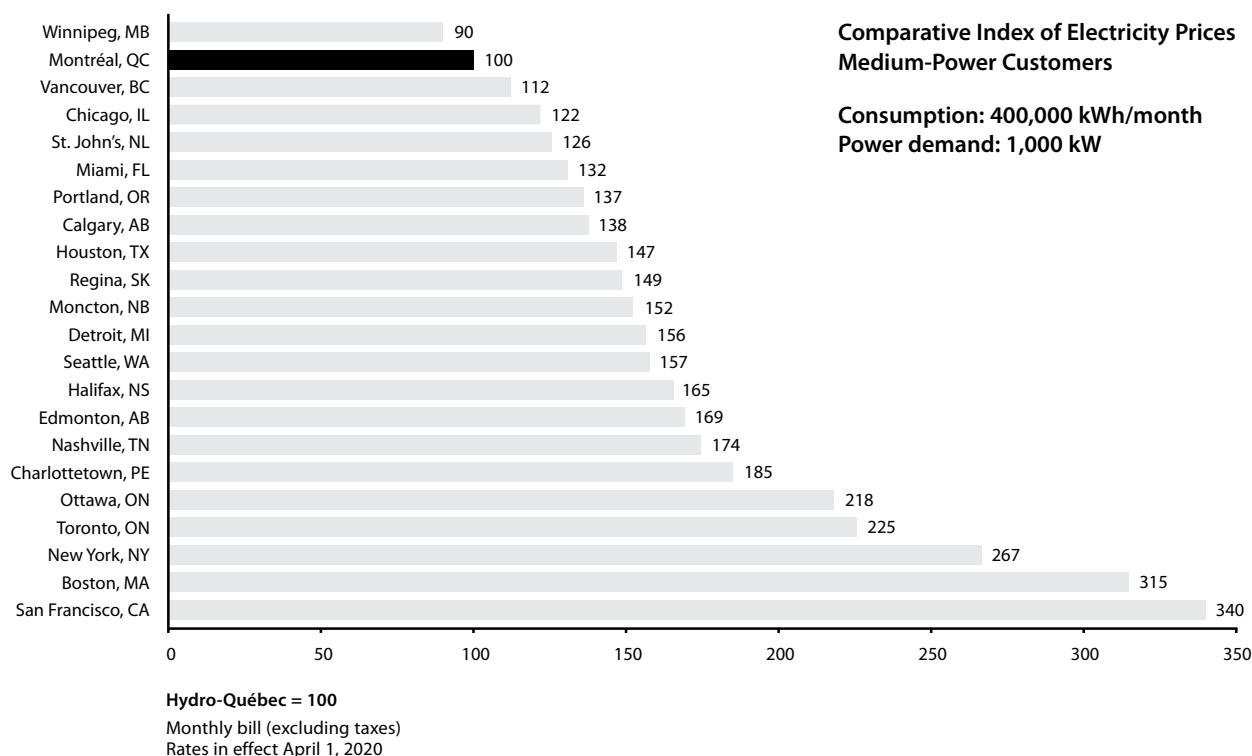
For medium-power customers with a monthly consumption of 100,000 kWh and a power demand of 500 kW, Montréal remains in *third* place.

FIGURE 3



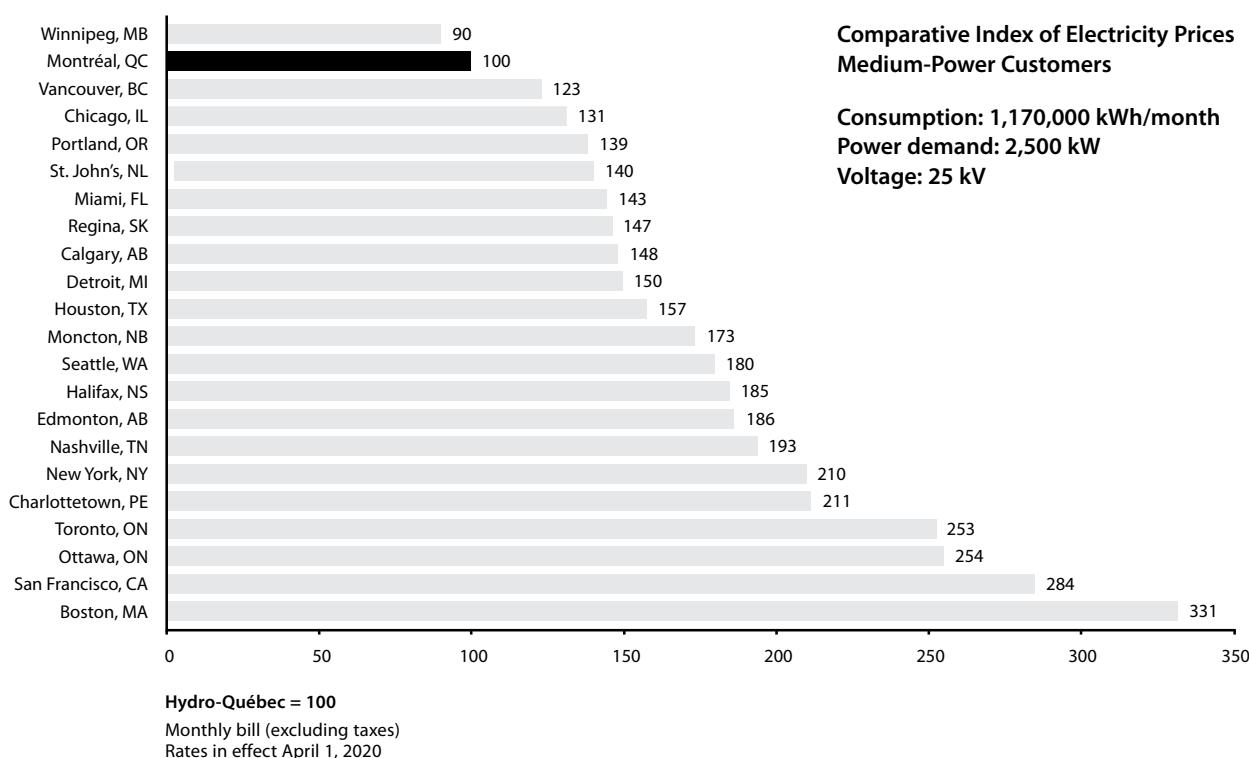
For customers with a monthly consumption of 400,000 kWh and a power demand of 1,000 kW, Montréal is in second place.

FIGURE 4



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

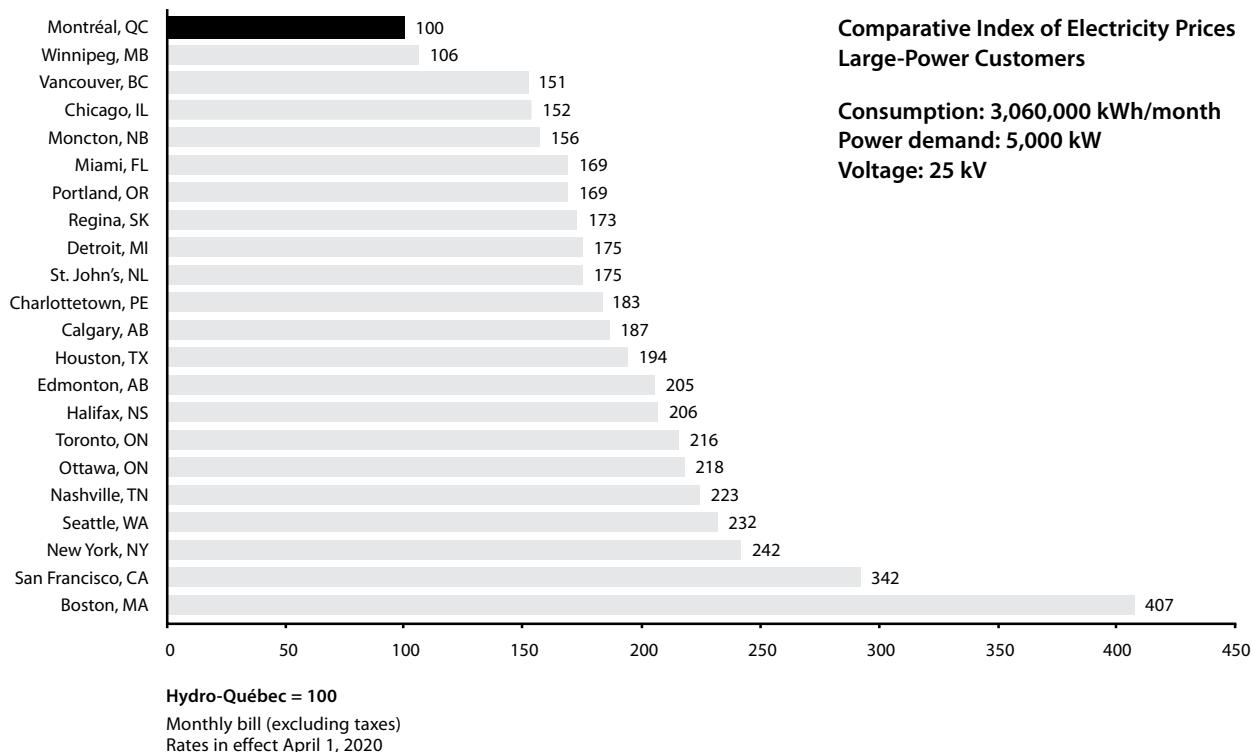
FIGURE 5



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

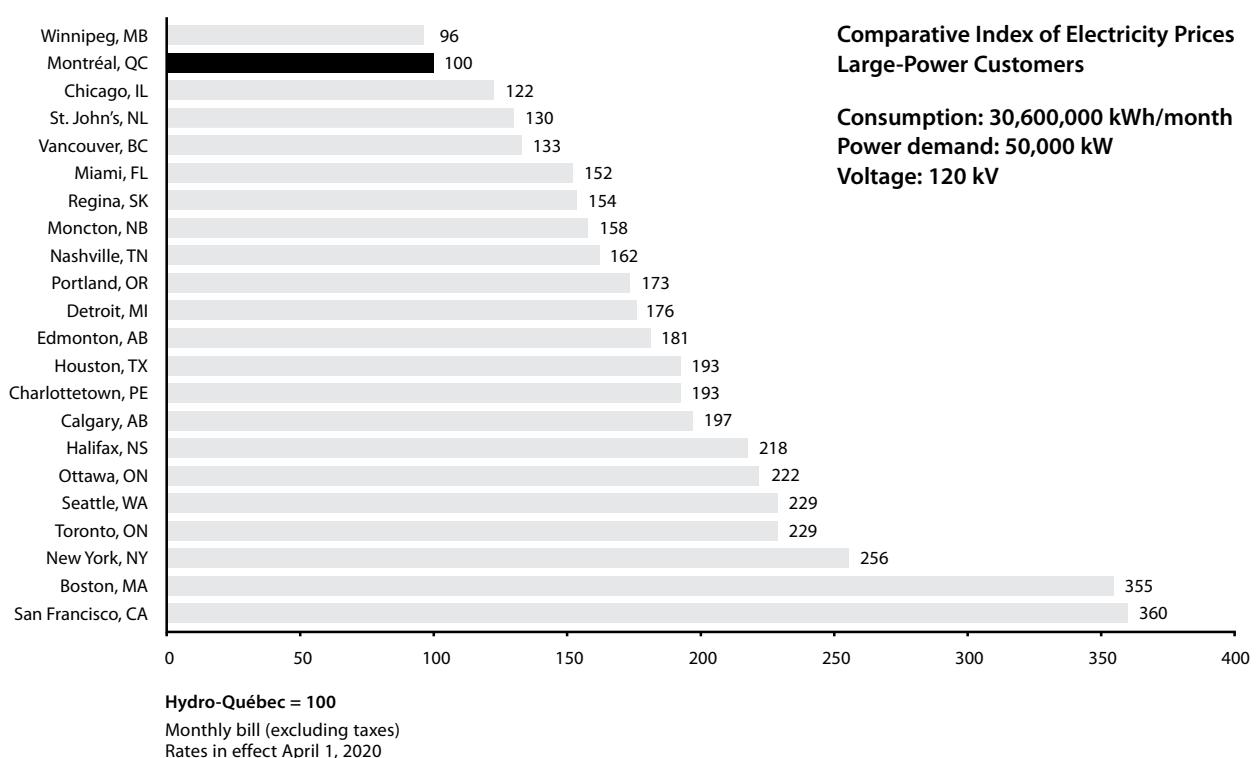
Figure 6 illustrates the comparative index of electricity prices for large-power customers with a monthly consumption of 3,060,000 kWh and a power demand of 5,000 kW. Montréal tops the list for a second year in a row.

FIGURE 6



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

FIGURE 7



01

Detailed Tables

Summary Tables
(excluding taxes)

Monthly Bills

Average Prices

Comparative Index

MONTHLY BILLS ON APRIL 1, 2020

(in CA\$)

Summary Table (excluding taxes)

| | Residential | Small Power | Medium Power | | | Large Power | |
|--------------------------------|------------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|------------------------------|
| Power demand | | 40 kW | 500 kW | 1,000 kW | 2,500 kW¹ | 5,000 kW¹ | 50,000 kW² |
| Consumption | 1,000 kWh | 10,000 kWh | 100,000 kWh | 400,000 kWh | 1,170,000 kWh | 3,060,000 kWh | 30,600,000 kWh |
| Load factor | 35% | | 28% | 56% | 65% | 85% | 85% |
| Canadian Cities | | | | | | | |
| Montréal, QC | 72.99 | 1,002.33 | 12,195.00 | 32,230.00 | 79,924.50 | 159,075.00 | 1,505,850.00 |
| Calgary, AB | 148.31 | 1,350.11 | 14,079.52 | 44,429.55 | 118,375.55 | 297,707.50 | 2,969,606.53 |
| Charlottetown, PE ³ | 168.27 | 1,753.67 | 18,317.47 | 59,652.47 | 168,655.47 | 290,984.00 | 2,909,840.00 |
| Edmonton, AB ⁴ | 142.93 | 1,360.54 | 18,658.68 | 54,379.98 | 148,795.06 | 325,440.68 | 2,725,951.46 |
| Halifax, NS | 168.88 | 1,581.90 | 17,524.50 | 53,043.00 | 147,637.65 | 327,880.89 | 3,278,832.84 |
| Moncton, NB | 134.19 | 1,387.86 | 14,918.86 | 48,913.86 | 138,496.86 | 248,833.17 | 2,373,780.00 |
| Ottawa, ON | 102.89 | 1,014.79 | 20,228.09 | 70,355.31 | 203,138.67 | 347,517.36 | 3,338,089.48 |
| Regina, SK | 165.07 | 1,398.04 | 16,347.97 | 48,027.97 | 117,239.17 | 274,788.38 | 2,312,973.29 |
| St. John's, NL ⁵ | 135.99 | 1,258.75 | 12,772.12 | 40,483.36 | 111,861.95 | 278,943.31 | 1,958,788.00 |
| Toronto, ON ³ | 110.96 | 1,099.75 | 21,609.00 | 72,385.46 | 201,897.81 | 343,518.00 | 3,446,999.03 |
| Vancouver, BC | 115.13 | 1,180.85 | 12,118.05 | 36,228.05 | 98,621.68 | 239,787.43 | 1,997,490.89 |
| Winnipeg, MB | 96.02 | 921.29 | 10,433.71 | 29,049.61 | 71,664.42 | 169,126.82 | 1,443,034.80 |
| American Cities | | | | | | | |
| Boston, MA | 342.81 | 3,407.75 | 33,755.90 | 101,604.16 | 264,639.98 | 647,153.10 | 5,346,385.31 |
| Chicago, IL | 191.27 | 1,625.19 | 15,068.40 | 39,375.19 | 104,902.58 | 241,828.64 | 1,839,639.04 |
| Detroit, MI ³ | 240.18 | 1,737.09 | 17,144.81 | 50,354.20 | 120,139.54 | 277,740.75 | 2,655,707.07 |
| Houston, TX ³ | 159.56 | 1,290.62 | 13,811.12 | 47,407.98 | 125,633.75 | 308,656.17 | 2,901,963.87 |
| Miami, FL ³ | 133.13 | 1,320.63 | 15,533.31 | 42,632.33 | 114,254.69 | 268,115.05 | 2,282,114.83 |
| Nashville, TN | 165.99 | 1,690.85 | 21,299.08 | 56,061.55 | 154,049.36 | 354,704.40 | 2,439,827.23 |
| New York, NY ³ | 336.76 | 2,797.59 | 31,142.86 | 86,128.15 | 167,980.89 | 385,599.17 | 3,854,144.43 |
| Portland, OR ³ | 146.15 | 1,440.56 | 15,114.40 | 44,131.46 | 111,039.04 | 268,345.35 | 2,600,538.88 |
| San Francisco, CA ³ | 366.58 | 3,428.94 | 41,084.00 | 109,726.65 | 227,243.32 | 543,857.46 | 5,419,657.52 |
| Seattle, WA | 178.28 | 1,497.05 | 14,266.76 | 50,615.16 | 143,704.97 | 368,406.60 | 3,445,048.95 |
| AVERAGE | 173.74 | 1,615.73 | 18,519.25 | 55,327.98 | 142,722.59 | 316,727.69 | 2,865,739.25 |

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

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

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

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

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

AVERAGE PRICES ON APRIL 1, 2020

(in ¢/kWh)¹

Summary Table (excluding taxes)

| | Residential | Small Power | Medium Power | | | Large Power | |
|--------------------------------|------------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|------------------------------|
| Power demand | | 40 kW | 500 kW | 1,000 kW | 2,500 kW² | 5,000 kW² | 50,000 kW³ |
| Consumption | 1,000 kWh | 10,000 kWh | 100,000 kWh | 400,000 kWh | 1,170,000 kWh | 3,060,000 kWh | 30,600,000 kWh |
| Load factor | | 35% | 28% | 56% | 65% | 85% | 85% |
| Canadian Cities | | | | | | | |
| Montréal, QC | 7.30 | 10.02 | 12.20 | 8.06 | 6.83 | 5.20 | 4.92 |
| Calgary, AB | 14.83 | 13.50 | 14.08 | 11.11 | 10.12 | 9.73 | 9.70 |
| Charlottetown, PE ⁴ | 16.83 | 17.54 | 18.32 | 14.91 | 14.41 | 9.51 | 9.51 |
| Edmonton, AB ⁵ | 14.29 | 13.61 | 18.66 | 13.59 | 12.72 | 10.64 | 8.91 |
| Halifax, NS | 16.89 | 15.82 | 17.52 | 13.26 | 12.62 | 10.72 | 10.72 |
| Moncton, NB | 13.42 | 13.88 | 14.92 | 12.23 | 11.84 | 8.13 | 7.76 |
| Ottawa, ON | 10.29 | 10.15 | 20.23 | 17.59 | 17.36 | 11.36 | 10.91 |
| Regina, SK | 16.51 | 13.98 | 16.35 | 12.01 | 10.02 | 8.98 | 7.56 |
| St. John's, NL ⁶ | 13.60 | 12.59 | 12.77 | 10.12 | 9.56 | 9.12 | 6.40 |
| Toronto, ON ⁴ | 11.10 | 11.00 | 21.61 | 18.10 | 17.26 | 11.23 | 11.26 |
| Vancouver, BC | 11.51 | 11.81 | 12.12 | 9.06 | 8.43 | 7.84 | 6.53 |
| Winnipeg, MB | 9.60 | 9.21 | 10.43 | 7.26 | 6.13 | 5.53 | 4.72 |
| American Cities | | | | | | | |
| Boston, MA | 34.28 | 34.08 | 33.76 | 25.40 | 22.62 | 21.15 | 17.47 |
| Chicago, IL | 19.13 | 16.25 | 15.07 | 9.84 | 8.97 | 7.90 | 6.01 |
| Detroit, MI ⁴ | 24.02 | 17.37 | 17.14 | 12.59 | 10.27 | 9.08 | 8.68 |
| Houston, TX ⁴ | 15.96 | 12.91 | 13.81 | 11.85 | 10.74 | 10.09 | 9.48 |
| Miami, FL ⁴ | 13.31 | 13.21 | 15.53 | 10.66 | 9.77 | 8.76 | 7.46 |
| Nashville, TN | 16.60 | 16.91 | 21.30 | 14.02 | 13.17 | 11.59 | 7.97 |
| New York, NY ⁴ | 33.68 | 27.98 | 31.14 | 21.53 | 14.36 | 12.60 | 12.60 |
| Portland, OR ⁴ | 14.62 | 14.41 | 15.11 | 11.03 | 9.49 | 8.77 | 8.50 |
| San Francisco, CA ⁴ | 36.66 | 34.29 | 41.08 | 27.43 | 19.42 | 17.77 | 17.71 |
| Seattle, WA | 17.83 | 14.97 | 14.27 | 12.65 | 12.28 | 12.04 | 11.26 |
| AVERAGE | 17.37 | 16.16 | 18.52 | 13.83 | 12.20 | 10.35 | 9.37 |

1) In Canadian currency.

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

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

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

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

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

COMPARATIVE INDEX ON APRIL 1, 2020

(Hydro-Québec = 100)

Summary Table (excluding taxes)

| | Residential | Small Power | Medium Power | | | Large Power | |
|--------------------------------|------------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|------------------------------|
| Power demand | | 40 kW | 500 kW | 1,000 kW | 2,500 kW¹ | 5,000 kW¹ | 50,000 kW² |
| Consumption | 1,000 kWh | 10,000 kWh | 100,000 kWh | 400,000 kWh | 1,170,000 kWh | 3,060,000 kWh | 30,600,000 kWh |
| Load factor | | 35% | 28% | 56% | 65% | 85% | 85% |
| Canadian Cities | | | | | | | |
| Montréal, QC | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Calgary, AB | 203 | 135 | 115 | 138 | 148 | 187 | 197 |
| Charlottetown, PE ³ | 231 | 175 | 150 | 185 | 211 | 183 | 193 |
| Edmonton, AB ⁴ | 196 | 136 | 153 | 169 | 186 | 205 | 181 |
| Halifax, NS | 231 | 158 | 144 | 165 | 185 | 206 | 218 |
| Moncton, NB | 184 | 138 | 122 | 152 | 173 | 156 | 158 |
| Ottawa, ON | 141 | 101 | 166 | 218 | 254 | 218 | 222 |
| Regina, SK | 226 | 139 | 134 | 149 | 147 | 173 | 154 |
| St. John's, NL ⁵ | 186 | 126 | 105 | 126 | 140 | 175 | 130 |
| Toronto, ON ³ | 152 | 110 | 177 | 225 | 253 | 216 | 229 |
| Vancouver, BC | 158 | 118 | 99 | 112 | 123 | 151 | 133 |
| Winnipeg, MB | 132 | 92 | 86 | 90 | 90 | 106 | 96 |
| American Cities | | | | | | | |
| Boston, MA | 470 | 340 | 277 | 315 | 331 | 407 | 355 |
| Chicago, IL | 262 | 162 | 124 | 122 | 131 | 152 | 122 |
| Detroit, MI ³ | 329 | 173 | 141 | 156 | 150 | 175 | 176 |
| Houston, TX ³ | 219 | 129 | 113 | 147 | 157 | 194 | 193 |
| Miami, FL ³ | 182 | 132 | 127 | 132 | 143 | 169 | 152 |
| Nashville, TN | 227 | 169 | 175 | 174 | 193 | 223 | 162 |
| New York, NY ³ | 461 | 279 | 255 | 267 | 210 | 242 | 256 |
| Portland, OR ³ | 200 | 144 | 124 | 137 | 139 | 169 | 173 |
| San Francisco, CA ³ | 502 | 342 | 337 | 340 | 284 | 342 | 360 |
| Seattle, WA | 244 | 149 | 117 | 157 | 180 | 232 | 229 |
| AVERAGE | 238 | 161 | 152 | 172 | 179 | 199 | 190 |

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

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

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

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 Tables

Summary Tables (including taxes)

Monthly Bills

Average Prices

Comparative Index

MONTHLY BILLS ON APRIL 1, 2020

(in CA\$)

Summary Table (including taxes)

| | Residential | Small Power | Medium Power | | | Large Power | |
|--------------------------------|------------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|------------------------------|
| Power demand | | 40 kW | 500 kW | 1,000 kW | 2,500 kW¹ | 5,000 kW¹ | 50,000 kW² |
| Consumption | 1,000 kWh | 10,000 kWh | 100,000 kWh | 400,000 kWh | 1,170,000 kWh | 3,060,000 kWh | 30,600,000 kWh |
| Load factor | 35% | | 28% | 56% | 65% | 85% | 85% |
| Canadian Cities | | | | | | | |
| Montréal, QC | 83.92 | 1,152.43 | 14,021.20 | 37,056.44 | 91,893.20 | 182,896.48 | 1,731,351.04 |
| Calgary, AB | 155.73 | 1,417.62 | 14,783.49 | 46,651.03 | 124,294.33 | 312,592.87 | 3,118,086.86 |
| Charlottetown, PE ³ | 193.51 | 2,016.72 | 21,065.09 | 68,600.34 | 193,953.79 | 334,631.60 | 3,346,316.00 |
| Edmonton, AB ⁴ | 150.08 | 1,428.57 | 19,591.61 | 57,098.98 | 156,234.81 | 341,712.72 | 2,862,249.04 |
| Halifax, NS | 177.32 | 1,819.19 | 20,153.18 | 60,999.45 | 169,783.30 | 377,063.02 | 3,770,657.77 |
| Moncton, NB | 154.32 | 1,596.04 | 17,156.69 | 56,250.94 | 159,271.39 | 286,158.15 | 2,729,847.00 |
| Ottawa, ON | 122.50 | 1,208.22 | 22,857.75 | 79,501.50 | 229,546.70 | 392,694.62 | 3,772,041.12 |
| Regina, SK | 195.86 | 1,760.16 | 20,480.57 | 60,807.77 | 149,247.10 | 351,624.60 | 2,987,394.85 |
| St. John's, NL ⁵ | 156.38 | 1,447.56 | 14,687.94 | 46,555.86 | 128,641.24 | 320,784.81 | 2,252,606.20 |
| Toronto, ON ³ | 132.11 | 1,309.38 | 24,418.17 | 81,795.57 | 228,144.52 | 388,175.34 | 3,895,108.91 |
| Vancouver, BC | 122.89 | 1,239.89 | 12,723.95 | 38,039.45 | 103,552.76 | 251,776.80 | 2,097,365.43 |
| Winnipeg, MB | 110.06 | 1,080.21 | 12,233.53 | 34,060.66 | 80,156.65 | 189,168.35 | 1,614,034.43 |
| American Cities | | | | | | | |
| Boston, MA | 342.81 | 3,611.68 | 35,775.10 | 107,592.24 | 280,120.60 | 684,829.51 | 5,652,827.77 |
| Chicago, IL | 204.89 | 1,735.57 | 16,073.60 | 43,186.82 | 115,620.83 | 268,650.20 | 2,072,719.70 |
| Detroit, MI ³ | 261.80 | 1,928.17 | 19,030.74 | 55,893.16 | 133,354.89 | 308,292.24 | 2,947,834.84 |
| Houston, TX ³ | 161.16 | 1,392.65 | 14,888.20 | 51,186.83 | 135,804.72 | 333,707.15 | 3,137,660.75 |
| Miami, FL ³ | 157.51 | 1,671.71 | 19,701.26 | 53,799.20 | 143,991.46 | 337,220.37 | 2,844,829.94 |
| Nashville, TN | 165.99 | 1,809.21 | 22,790.02 | 59,985.85 | 164,832.81 | 379,533.70 | 2,610,615.14 |
| New York, NY ³ | 366.91 | 3,119.64 | 34,727.97 | 96,041.80 | 187,315.91 | 429,981.77 | 4,297,757.66 |
| Portland, OR ³ | 148.25 | 1,461.42 | 15,334.26 | 44,769.50 | 112,692.73 | 272,356.89 | 2,639,507.39 |
| San Francisco, CA ³ | 367.01 | 3,604.65 | 43,180.85 | 115,383.58 | 239,104.50 | 572,355.45 | 5,703,691.60 |
| Seattle, WA | 178.28 | 1,497.05 | 14,266.76 | 50,615.16 | 143,704.97 | 368,406.60 | 3,445,048.95 |
| AVERAGE | 186.79 | 1,786.72 | 20,451.90 | 61,176.01 | 157,784.69 | 349,300.60 | 3,160,434.20 |

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

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

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

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

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

AVERAGE PRICES ON APRIL 1, 2020

(in ¢/kWh)¹

Summary Table (including taxes)

| | Residential | Small Power | Medium Power | | | Large Power | |
|--------------------------------|------------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|------------------------------|
| Power demand | | 40 kW | 500 kW | 1,000 kW | 2,500 kW² | 5,000 kW² | 50,000 kW³ |
| Consumption | 1,000 kWh | 10,000 kWh | 100,000 kWh | 400,000 kWh | 1,170,000 kWh | 3,060,000 kWh | 30,600,000 kWh |
| Load factor | | 35% | 28% | 56% | 65% | 85% | 85% |
| Canadian Cities | | | | | | | |
| Montréal, QC | 8.39 | 11.52 | 14.02 | 9.26 | 7.85 | 5.98 | 5.66 |
| Calgary, AB | 15.57 | 14.18 | 14.78 | 11.66 | 10.62 | 10.22 | 10.19 |
| Charlottetown, PE ⁴ | 19.35 | 20.17 | 21.07 | 17.15 | 16.58 | 10.94 | 10.94 |
| Edmonton, AB ⁵ | 15.01 | 14.29 | 19.59 | 14.27 | 13.35 | 11.17 | 9.35 |
| Halifax, NS | 17.73 | 18.19 | 20.15 | 15.25 | 14.51 | 12.32 | 12.32 |
| Moncton, NB | 15.43 | 15.96 | 17.16 | 14.06 | 13.61 | 9.35 | 8.92 |
| Ottawa, ON | 12.25 | 12.08 | 22.86 | 19.88 | 19.62 | 12.83 | 12.33 |
| Regina, SK | 19.59 | 17.60 | 20.48 | 15.20 | 12.76 | 11.49 | 9.76 |
| St. John's, NL ⁶ | 15.64 | 14.48 | 14.69 | 11.64 | 10.99 | 10.48 | 7.36 |
| Toronto, ON ⁴ | 13.21 | 13.09 | 24.42 | 20.45 | 19.50 | 12.69 | 12.73 |
| Vancouver, BC | 12.29 | 12.40 | 12.72 | 9.51 | 8.85 | 8.23 | 6.85 |
| Winnipeg, MB | 11.01 | 10.80 | 12.23 | 8.52 | 6.85 | 6.18 | 5.27 |
| American Cities | | | | | | | |
| Boston, MA | 34.28 | 36.12 | 35.78 | 26.90 | 23.94 | 22.38 | 18.47 |
| Chicago, IL | 20.49 | 17.36 | 16.07 | 10.80 | 9.88 | 8.78 | 6.77 |
| Detroit, MI ⁴ | 26.18 | 19.28 | 19.03 | 13.97 | 11.40 | 10.07 | 9.63 |
| Houston, TX ⁴ | 16.12 | 13.93 | 14.89 | 12.80 | 11.61 | 10.91 | 10.25 |
| Miami, FL ⁴ | 15.75 | 16.72 | 19.70 | 13.45 | 12.31 | 11.02 | 9.30 |
| Nashville, TN | 16.60 | 18.09 | 22.79 | 15.00 | 14.09 | 12.40 | 8.53 |
| New York, NY ⁴ | 36.69 | 31.20 | 34.73 | 24.01 | 16.01 | 14.05 | 14.04 |
| Portland, OR ⁴ | 14.82 | 14.61 | 15.33 | 11.19 | 9.63 | 8.90 | 8.63 |
| San Francisco, CA ⁴ | 36.70 | 36.05 | 43.18 | 28.85 | 20.44 | 18.70 | 18.64 |
| Seattle, WA | 17.83 | 14.97 | 14.27 | 12.65 | 12.28 | 12.04 | 11.26 |
| AVERAGE | 18.68 | 17.87 | 20.45 | 15.29 | 13.49 | 11.42 | 10.33 |

1) In Canadian currency.

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

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

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

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

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

COMPARATIVE INDEX ON APRIL 1, 2020

(Hydro-Québec = 100)

Summary Table (including taxes)

| | Residential | Small Power | Medium Power | | | Large Power | |
|--------------------------------|------------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|------------------------------|
| Power demand | | 40 kW | 500 kW | 1,000 kW | 2,500 kW¹ | 5,000 kW¹ | 50,000 kW² |
| Consumption | 1,000 kWh | 10,000 kWh | 100,000 kWh | 400,000 kWh | 1,170,000 kWh | 3,060,000 kWh | 30,600,000 kWh |
| Load factor | | 35% | 28% | 56% | 65% | 85% | 85% |
| Canadian Cities | | | | | | | |
| Montréal, QC | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Calgary, AB | 186 | 123 | 105 | 126 | 135 | 171 | 180 |
| Charlottetown, PE ³ | 231 | 175 | 150 | 185 | 211 | 183 | 193 |
| Edmonton, AB ⁴ | 179 | 124 | 140 | 154 | 170 | 187 | 165 |
| Halifax, NS | 211 | 158 | 144 | 165 | 185 | 206 | 218 |
| Moncton, NB | 184 | 138 | 122 | 152 | 173 | 156 | 158 |
| Ottawa, ON | 146 | 105 | 163 | 215 | 250 | 215 | 218 |
| Regina, SK | 233 | 153 | 146 | 164 | 162 | 192 | 173 |
| St. John's, NL ⁵ | 186 | 126 | 105 | 126 | 140 | 175 | 130 |
| Toronto, ON ³ | 157 | 114 | 174 | 221 | 248 | 212 | 225 |
| Vancouver, BC | 146 | 108 | 91 | 103 | 113 | 138 | 121 |
| Winnipeg, MB | 131 | 94 | 87 | 92 | 87 | 103 | 93 |
| American Cities | | | | | | | |
| Boston, MA | 409 | 313 | 255 | 290 | 305 | 374 | 326 |
| Chicago, IL | 244 | 151 | 115 | 117 | 126 | 147 | 120 |
| Detroit, MI ³ | 312 | 167 | 136 | 151 | 145 | 169 | 170 |
| Houston, TX ³ | 192 | 121 | 106 | 138 | 148 | 182 | 181 |
| Miami, FL ³ | 188 | 145 | 141 | 145 | 157 | 184 | 164 |
| Nashville, TN | 198 | 157 | 163 | 162 | 179 | 208 | 151 |
| New York, NY ³ | 437 | 271 | 248 | 259 | 204 | 235 | 248 |
| Portland, OR ³ | 177 | 127 | 109 | 121 | 123 | 149 | 152 |
| San Francisco, CA ³ | 437 | 313 | 308 | 311 | 260 | 313 | 329 |
| Seattle, WA | 212 | 130 | 102 | 137 | 156 | 201 | 199 |
| AVERAGE | 223 | 155 | 146 | 165 | 172 | 191 | 183 |

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

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

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

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

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

03

Detailed Tables

Residential

Monthly Bills

Average Prices

Comparative Index

RESIDENTIAL

Monthly Bills on April 1, 2020

(in CA\$)

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

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

2) Newfoundland Power rates.

RESIDENTIAL

Average Prices on April 1, 2020

(in ¢/kWh)¹

| Consumption | 625 kWh | 750 kWh | 1,000 kWh | 2,000 kWh | 3,000 kWh |
|--------------------------------|--------------|--------------|--------------|--------------|--------------|
| Canadian Cities | | | | | |
| Montréal, QC | 8.03 | 7.71 | 7.30 | 8.01 | 8.47 |
| Calgary, AB | 16.28 | 15.64 | 14.83 | 13.62 | 13.22 |
| Charlottetown, PE ² | 18.30 | 17.65 | 16.83 | 15.60 | 14.21 |
| Edmonton, AB | 15.89 | 15.18 | 14.29 | 12.96 | 12.52 |
| Halifax, NS | 17.54 | 17.25 | 16.89 | 16.35 | 16.17 |
| Moncton, NB | 14.76 | 14.17 | 13.42 | 12.30 | 11.93 |
| Ottawa, ON | 11.49 | 10.96 | 10.29 | 9.28 | 8.95 |
| Regina, SK | 17.87 | 17.27 | 16.51 | 15.37 | 14.99 |
| St. John's, NL ³ | 14.55 | 14.13 | 13.60 | 12.81 | 12.54 |
| Toronto, ON ² | 12.63 | 11.95 | 11.10 | 9.82 | 9.39 |
| Vancouver, BC | 10.38 | 10.67 | 11.51 | 12.77 | 13.19 |
| Winnipeg, MB | 10.12 | 9.89 | 9.60 | 9.17 | 9.03 |
| American Cities | | | | | |
| Boston, MA | 34.88 | 34.62 | 34.28 | 33.78 | 33.62 |
| Chicago, IL | 20.63 | 19.96 | 19.13 | 17.87 | 17.46 |
| Detroit, MI ² | 24.03 | 24.02 | 24.02 | 24.01 | 24.01 |
| Houston, TX ² | 18.69 | 18.10 | 15.96 | 15.57 | 15.44 |
| Miami, FL ² | 14.02 | 13.71 | 13.31 | 14.19 | 14.48 |
| Nashville, TN | 18.44 | 17.62 | 16.60 | 15.07 | 14.75 |
| New York, NY ² | 35.03 | 34.43 | 33.68 | 32.55 | 32.17 |
| Portland, OR ² | 15.51 | 15.11 | 14.62 | 15.98 | 16.44 |
| San Francisco, CA ² | 32.63 | 34.21 | 36.66 | 50.15 | 58.01 |
| Seattle, WA | 17.22 | 17.49 | 17.83 | 18.34 | 18.51 |
| AVERAGE | 18.13 | 17.81 | 17.37 | 17.53 | 17.70 |

1) In Canadian currency.

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

3) Newfoundland Power rates.

RESIDENTIAL

Comparative Index on April 1, 2020

(Hydro-Québec = 100)

| Consumption | 625 kWh | 750 kWh | 1,000 kWh | 2,000 kWh | 3,000 kWh |
|--------------------------------|------------|------------|------------|------------|------------|
| Canadian Cities | | | | | |
| Montréal, QC | 100 | 100 | 100 | 100 | 100 |
| Calgary, AB | 203 | 203 | 203 | 170 | 156 |
| Charlottetown, PE ¹ | 228 | 229 | 231 | 195 | 168 |
| Edmonton, AB | 198 | 197 | 196 | 162 | 148 |
| Halifax, NS | 218 | 224 | 231 | 204 | 191 |
| Moncton, NB | 184 | 184 | 184 | 154 | 141 |
| Ottawa, ON | 143 | 142 | 141 | 116 | 106 |
| Regina, SK | 223 | 224 | 226 | 192 | 177 |
| St. John's, NL ² | 181 | 183 | 186 | 160 | 148 |
| Toronto, ON ¹ | 157 | 155 | 152 | 123 | 111 |
| Vancouver, BC | 129 | 139 | 158 | 159 | 156 |
| Winnipeg, MB | 126 | 128 | 132 | 115 | 107 |
| American Cities | | | | | |
| Boston, MA | 434 | 449 | 470 | 422 | 397 |
| Chicago, IL | 257 | 259 | 262 | 223 | 206 |
| Detroit, MI ¹ | 299 | 312 | 329 | 300 | 284 |
| Houston, TX ¹ | 233 | 235 | 219 | 194 | 182 |
| Miami, FL ¹ | 175 | 178 | 182 | 177 | 171 |
| Nashville, TN | 230 | 229 | 227 | 188 | 174 |
| New York, NY ¹ | 436 | 447 | 461 | 406 | 380 |
| Portland, OR ¹ | 193 | 196 | 200 | 200 | 194 |
| San Francisco, CA ¹ | 406 | 444 | 502 | 626 | 685 |
| Seattle, WA | 214 | 227 | 244 | 229 | 219 |
| AVERAGE | 226 | 231 | 238 | 219 | 209 |

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

2) Newfoundland Power rates.

04

Detailed Tables

Small Power

Monthly Bills

Average Prices

Comparative Index

SMALL POWER

Monthly Bills on April 1, 2020

(in CA\$)

| Power demand | 6 kW | 14 kW | 40 kW | 100 kW | 100 kW |
|--------------------------------|---------------|---------------|-----------------|-----------------|-----------------|
| Consumption | 750 kWh | 2,000 kWh | 10,000 kWh | 14,000 kWh | 25,000 kWh |
| Load factor | 17% | 20% | 35% | 19% | 35% |
| Canadian Cities | | | | | |
| Montréal, QC | 86.58 | 210.33 | 1,002.33 | 1,834.20 | 2,715.50 |
| Calgary, AB | 133.09 | 276.32 | 1,350.11 | 2,069.17 | 3,027.06 |
| Charlottetown, PE ¹ | 157.10 | 377.97 | 1,753.67 | 3,021.07 | 4,290.47 |
| Edmonton, AB | 117.72 | 285.66 | 1,360.54 | 2,521.25 | 3,431.06 |
| Halifax, NS | 125.30 | 307.00 | 1,581.90 | 2,768.34 | 3,954.75 |
| Moncton, NB | 124.24 | 292.36 | 1,387.86 | 2,414.46 | 3,463.86 |
| Ottawa, ON | 88.81 | 213.95 | 1,014.79 | 2,252.54 | 4,958.30 |
| Regina, SK | 133.66 | 304.52 | 1,398.04 | 2,687.72 | 3,650.47 |
| St. John's, NL ² | 111.12 | 291.62 | 1,258.75 | 2,179.92 | 3,130.00 |
| Toronto, ON ¹ | 105.89 | 239.30 | 1,099.75 | 2,360.48 | 5,108.60 |
| Vancouver, BC | 103.97 | 258.97 | 1,180.85 | 1,886.25 | 2,940.05 |
| Winnipeg, MB | 87.68 | 200.33 | 921.29 | 1,868.85 | 2,466.87 |
| American Cities | | | | | |
| Boston, MA | 253.69 | 647.72 | 3,407.75 | 6,547.19 | 8,993.75 |
| Chicago, IL | 193.21 | 427.19 | 1,625.19 | 2,782.76 | 4,005.11 |
| Detroit, MI ¹ | 146.01 | 367.52 | 1,737.09 | 2,421.88 | 4,305.04 |
| Houston, TX ¹ | 99.11 | 346.10 | 1,290.62 | 2,266.75 | 3,181.61 |
| Miami, FL ¹ | 107.88 | 262.70 | 1,320.63 | 2,530.16 | 3,245.47 |
| Nashville, TN | 197.73 | 423.96 | 1,690.85 | 3,988.83 | 4,809.97 |
| New York, NY ¹ | 268.95 | 847.14 | 2,797.59 | 5,569.38 | 6,884.72 |
| Portland, OR ¹ | 135.17 | 317.94 | 1,440.56 | 2,436.73 | 3,536.43 |
| San Francisco, CA ¹ | 274.73 | 709.26 | 3,428.94 | 5,810.82 | 8,278.09 |
| Seattle, WA | 112.29 | 299.41 | 1,497.05 | 2,168.38 | 3,424.16 |
| AVERAGE | 143.81 | 359.42 | 1,615.73 | 2,926.69 | 4,263.70 |

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

2) Newfoundland Power rates.

SMALL POWER

Average Prices on April 1, 2020

(in ¢/kWh)¹

| Power demand | 6 kW | 14 kW | 40 kW | 100 kW | 100 kW |
|--------------------------------|--------------|--------------|--------------|--------------|--------------|
| Consumption | 750 kWh | 2,000 kWh | 10,000 kWh | 14,000 kWh | 25,000 kWh |
| Load factor | 17% | 20% | 35% | 19% | 35% |
| Canadian Cities | | | | | |
| Montréal, QC | 11.54 | 10.52 | 10.02 | 13.10 | 10.86 |
| Calgary, AB | 17.75 | 13.82 | 13.50 | 14.78 | 12.11 |
| Charlottetown, PE ² | 20.95 | 18.90 | 17.54 | 21.58 | 17.16 |
| Edmonton, AB | 15.70 | 14.28 | 13.61 | 18.01 | 13.72 |
| Halifax, NS | 16.71 | 15.35 | 15.82 | 19.77 | 15.82 |
| Moncton, NB | 16.57 | 14.62 | 13.88 | 17.25 | 13.86 |
| Ottawa, ON | 11.84 | 10.70 | 10.15 | 16.09 | 19.83 |
| Regina, SK | 17.82 | 15.23 | 13.98 | 19.20 | 14.60 |
| St. John's, NL ³ | 14.82 | 14.58 | 12.59 | 15.57 | 12.52 |
| Toronto, ON ² | 14.12 | 11.96 | 11.00 | 16.86 | 20.43 |
| Vancouver, BC | 13.86 | 12.95 | 11.81 | 13.47 | 11.76 |
| Winnipeg, MB | 11.69 | 10.02 | 9.21 | 13.35 | 9.87 |
| American Cities | | | | | |
| Boston, MA | 33.83 | 32.39 | 34.08 | 46.77 | 35.98 |
| Chicago, IL | 25.76 | 21.36 | 16.25 | 19.88 | 16.02 |
| Detroit, MI ² | 19.47 | 18.38 | 17.37 | 17.30 | 17.22 |
| Houston, TX ² | 13.21 | 17.30 | 12.91 | 16.19 | 12.73 |
| Miami, FL ² | 14.38 | 13.14 | 13.21 | 18.07 | 12.98 |
| Nashville, TN | 26.36 | 21.20 | 16.91 | 28.49 | 19.24 |
| New York, NY ² | 35.86 | 42.36 | 27.98 | 39.78 | 27.54 |
| Portland, OR ² | 18.02 | 15.90 | 14.41 | 17.41 | 14.15 |
| San Francisco, CA ² | 36.63 | 35.46 | 34.29 | 41.51 | 33.11 |
| Seattle, WA | 14.97 | 14.97 | 14.97 | 15.49 | 13.70 |
| AVERAGE | 19.18 | 17.97 | 16.16 | 20.90 | 17.05 |

1) In Canadian currency.

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

3) Newfoundland Power rates.

SMALL POWER

Comparative Index on April 1, 2020

(Hydro-Québec = 100)

| Power demand | 6 kW | 14 kW | 40 kW | 100 kW | 100 kW |
|--------------------------------|------------|------------|------------|------------|------------|
| Consumption | 750 kWh | 2,000 kWh | 10,000 kWh | 14,000 kWh | 25,000 kWh |
| Load factor | 17% | 20% | 35% | 19% | 35% |
| Canadian Cities | | | | | |
| Montréal, QC | 100 | 100 | 100 | 100 | 100 |
| Calgary, AB | 154 | 131 | 135 | 113 | 111 |
| Charlottetown, PE ¹ | 181 | 180 | 175 | 165 | 158 |
| Edmonton, AB | 136 | 136 | 136 | 137 | 126 |
| Halifax, NS | 145 | 146 | 158 | 151 | 146 |
| Moncton, NB | 143 | 139 | 138 | 132 | 128 |
| Ottawa, ON | 103 | 102 | 101 | 123 | 183 |
| Regina, SK | 154 | 145 | 139 | 147 | 134 |
| St. John's, NL ² | 128 | 139 | 126 | 119 | 115 |
| Toronto, ON ¹ | 122 | 114 | 110 | 129 | 188 |
| Vancouver, BC | 120 | 123 | 118 | 103 | 108 |
| Winnipeg, MB | 101 | 95 | 92 | 102 | 91 |
| American Cities | | | | | |
| Boston, MA | 293 | 308 | 340 | 357 | 331 |
| Chicago, IL | 223 | 203 | 162 | 152 | 147 |
| Detroit, MI ¹ | 169 | 175 | 173 | 132 | 159 |
| Houston, TX ¹ | 114 | 165 | 129 | 124 | 117 |
| Miami, FL ¹ | 125 | 125 | 132 | 138 | 120 |
| Nashville, TN | 228 | 202 | 169 | 217 | 177 |
| New York, NY ¹ | 311 | 403 | 279 | 304 | 254 |
| Portland, OR ¹ | 156 | 151 | 144 | 133 | 130 |
| San Francisco, CA ¹ | 317 | 337 | 342 | 317 | 305 |
| Seattle, WA | 130 | 142 | 149 | 118 | 126 |
| AVERAGE | 166 | 171 | 161 | 160 | 157 |

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

2) Newfoundland Power rates.

05

Detailed Tables

Medium Power

Monthly Bills

Average Prices

Comparative Index

MEDIUM POWER

Monthly Bills on April 1, 2020

(in CA\$)

| Power demand | 500 kW | 500 kW | 1,000 kW | 1,000 kW | 2,500 kW ¹ |
|--------------------------------|------------------|------------------|------------------|------------------|-----------------------|
| Consumption | 100,000 kWh | 200,000 kWh | 200,000 kWh | 400,000 kWh | 1,170,000 kWh |
| Load factor | 28% | 56% | 28% | 56% | 65% |
| Canadian Cities | | | | | |
| Montréal, QC | 12,195.00 | 17,350.00 | 24,390.00 | 32,230.00 | 79,924.50 |
| Calgary, AB | 14,079.52 | 22,567.05 | 27,454.49 | 44,429.55 | 118,375.55 |
| Charlottetown, PE ² | 18,317.47 | 29,857.47 | 36,572.47 | 59,652.47 | 168,655.47 |
| Edmonton, AB ³ | 18,658.68 | 28,465.48 | 34,766.38 | 54,379.98 | 148,795.06 |
| Halifax, NS | 17,524.50 | 26,521.50 | 35,049.00 | 53,043.00 | 147,637.65 |
| Moncton, NB | 14,918.86 | 24,458.86 | 29,833.86 | 48,913.86 | 138,496.86 |
| Ottawa, ON | 20,228.09 | 35,277.78 | 40,255.94 | 70,355.31 | 203,138.67 |
| Regina, SK | 16,347.97 | 24,021.97 | 32,679.97 | 48,027.97 | 117,239.17 |
| St. John's, NL ⁴ | 12,772.12 | 20,939.74 | 24,307.69 | 40,483.36 | 111,861.95 |
| Toronto, ON ² | 21,609.00 | 36,586.16 | 42,730.67 | 72,385.46 | 201,897.81 |
| Vancouver, BC | 12,118.05 | 18,118.05 | 24,228.05 | 36,228.05 | 98,621.68 |
| Winnipeg, MB | 10,433.71 | 14,644.71 | 20,627.61 | 29,049.61 | 71,664.42 |
| American Cities | | | | | |
| Boston, MA | 33,755.90 | 50,915.82 | 67,284.32 | 101,604.16 | 264,639.98 |
| Chicago, IL | 15,068.40 | 19,788.68 | 29,934.60 | 39,375.19 | 104,902.58 |
| Detroit, MI ² | 17,144.81 | 25,250.49 | 34,264.49 | 50,354.20 | 120,139.54 |
| Houston, TX ² | 13,811.12 | 22,128.01 | 30,774.19 | 47,407.98 | 125,633.75 |
| Miami, FL ² | 15,533.31 | 21,372.23 | 30,954.49 | 42,632.33 | 114,254.69 |
| Nashville, TN | 21,299.08 | 28,160.21 | 42,339.30 | 56,061.55 | 154,049.36 |
| New York, NY ² | 31,142.86 | 43,100.49 | 62,212.88 | 86,128.15 | 167,980.89 |
| Portland, OR ² | 15,114.40 | 23,024.92 | 28,938.82 | 44,131.46 | 111,039.04 |
| San Francisco, CA ² | 41,084.00 | 57,046.80 | 79,678.75 | 109,726.65 | 227,243.32 |
| Seattle, WA | 14,266.76 | 25,683.01 | 28,044.35 | 50,615.16 | 143,704.97 |
| AVERAGE | 18,519.25 | 27,967.25 | 36,696.47 | 55,327.98 | 142,722.59 |

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

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

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

4) Newfoundland Power rates.

MEDIUM POWER

Average Prices on April 1, 2020

(in ¢/kWh)¹

| Power demand | 500 kW | 500 kW | 1,000 kW | 1,000 kW | 2,500 kW ² |
|--------------|-------------|-------------|-------------|-------------|-----------------------|
| Consumption | 100,000 kWh | 200,000 kWh | 200,000 kWh | 400,000 kWh | 1,170,000 kWh |
| Load factor | 28% | 56% | 28% | 56% | 65% |

Canadian Cities

| | | | | | |
|--------------------------------|-------|-------|-------|-------|-------|
| Montréal, QC | 12.20 | 8.68 | 12.20 | 8.06 | 6.83 |
| Calgary, AB | 14.08 | 11.28 | 13.73 | 11.11 | 10.12 |
| Charlottetown, PE ³ | 18.32 | 14.93 | 18.29 | 14.91 | 14.41 |
| Edmonton, AB ⁴ | 18.66 | 14.23 | 17.38 | 13.59 | 12.72 |
| Halifax, NS | 17.52 | 13.26 | 17.52 | 13.26 | 12.62 |
| Moncton, NB | 14.92 | 12.23 | 14.92 | 12.23 | 11.84 |
| Ottawa, ON | 20.23 | 17.64 | 20.13 | 17.59 | 17.36 |
| Regina, SK | 16.35 | 12.01 | 16.34 | 12.01 | 10.02 |
| St. John's, NL ⁵ | 12.77 | 10.47 | 12.15 | 10.12 | 9.56 |
| Toronto, ON ³ | 21.61 | 18.29 | 21.37 | 18.10 | 17.26 |
| Vancouver, BC | 12.12 | 9.06 | 12.11 | 9.06 | 8.43 |
| Winnipeg, MB | 10.43 | 7.32 | 10.31 | 7.26 | 6.13 |

American Cities

| | | | | | |
|--------------------------------|--------------|--------------|--------------|--------------|--------------|
| Boston, MA | 33.76 | 25.46 | 33.64 | 25.40 | 22.62 |
| Chicago, IL | 15.07 | 9.89 | 14.97 | 9.84 | 8.97 |
| Detroit, MI ³ | 17.14 | 12.63 | 17.13 | 12.59 | 10.27 |
| Houston, TX ³ | 13.81 | 11.06 | 15.39 | 11.85 | 10.74 |
| Miami, FL ³ | 15.53 | 10.69 | 15.48 | 10.66 | 9.77 |
| Nashville, TN | 21.30 | 14.08 | 21.17 | 14.02 | 13.17 |
| New York, NY ³ | 31.14 | 21.55 | 31.11 | 21.53 | 14.36 |
| Portland, OR ³ | 15.11 | 11.51 | 14.47 | 11.03 | 9.49 |
| San Francisco, CA ³ | 41.08 | 28.52 | 39.84 | 27.43 | 19.42 |
| Seattle, WA | 14.27 | 12.84 | 14.02 | 12.65 | 12.28 |
| AVERAGE | 18.52 | 13.98 | 18.35 | 13.83 | 12.20 |

1) In Canadian currency.

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

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

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

5) Newfoundland Power rates.

MEDIUM POWER

Comparative Index on April 1, 2020

(Hydro-Québec = 100)

| Power demand | 500 kW | 500 kW | 1,000 kW | 1,000 kW | 2,500 kW ¹ |
|--------------|-------------|-------------|-------------|-------------|-----------------------|
| Consumption | 100,000 kWh | 200,000 kWh | 200,000 kWh | 400,000 kWh | 1,170,000 kWh |
| Load factor | 28% | 56% | 28% | 56% | 65% |

Canadian Cities

| Montréal, QC | 100 | 100 | 100 | 100 | 100 |
|--------------------------------|-----|-----|-----|-----|-----|
| Calgary, AB | 115 | 130 | 113 | 138 | 148 |
| Charlottetown, PE ² | 150 | 172 | 150 | 185 | 211 |
| Edmonton, AB ³ | 153 | 164 | 143 | 169 | 186 |
| Halifax, NS | 144 | 153 | 144 | 165 | 185 |
| Moncton, NB | 122 | 141 | 122 | 152 | 173 |
| Ottawa, ON | 166 | 203 | 165 | 218 | 254 |
| Regina, SK | 134 | 138 | 134 | 149 | 147 |
| St. John's, NL ⁴ | 105 | 121 | 100 | 126 | 140 |
| Toronto, ON ² | 177 | 211 | 175 | 225 | 253 |
| Vancouver, BC | 99 | 104 | 99 | 112 | 123 |
| Winnipeg, MB | 86 | 84 | 85 | 90 | 90 |

American Cities

| Boston, MA | 277 | 293 | 276 | 315 | 331 |
|--------------------------------|-----|-----|-----|-----|-----|
| Chicago, IL | 124 | 114 | 123 | 122 | 131 |
| Detroit, MI ² | 141 | 146 | 140 | 156 | 150 |
| Houston, TX ² | 113 | 128 | 126 | 147 | 157 |
| Miami, FL ² | 127 | 123 | 127 | 132 | 143 |
| Nashville, TN | 175 | 162 | 174 | 174 | 193 |
| New York, NY ² | 255 | 248 | 255 | 267 | 210 |
| Portland, OR ² | 124 | 133 | 119 | 137 | 139 |
| San Francisco, CA ² | 337 | 329 | 327 | 340 | 284 |
| Seattle, WA | 117 | 148 | 115 | 157 | 180 |
| AVERAGE | 152 | 161 | 150 | 172 | 179 |

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

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

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

4) Newfoundland Power rates.

06

Detailed Tables

Large Power

Monthly Bills

Average Prices

Comparative Index

LARGE POWER

Monthly Bills on April 1, 2020

(in CA\$)

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

Canadian Cities

| | | | | | | |
|--------------|------------|------------|------------|------------|--------------|--------------|
| Montréal, QC | 135,459.00 | 159,075.00 | 289,362.00 | 875,958.00 | 1,269,690.00 | 1,505,850.00 |
|--------------|------------|------------|------------|------------|--------------|--------------|

| | | | | | | |
|--------------------------------|------------|------------|------------|--------------|--------------|--------------|
| Calgary, AB | 234,376.82 | 297,707.50 | 562,918.66 | 1,708,209.47 | 2,336,299.72 | 2,969,606.53 |
| Charlottetown, PE ² | 239,576.00 | 290,984.00 | 556,264.00 | 1,685,928.00 | 2,395,760.00 | 2,909,840.00 |
| Edmonton, AB ³ | 264,430.26 | 325,440.68 | 528,565.07 | 1,586,354.58 | 2,250,940.33 | 2,725,951.46 |
| Halifax, NS | 265,586.49 | 327,880.89 | 624,614.57 | 1,894,620.51 | 2,655,888.84 | 3,278,832.84 |
| Moncton, NB | 209,516.13 | 248,833.17 | 455,388.00 | 1,379,076.00 | 1,986,420.00 | 2,373,780.00 |
| Ottawa, ON | 340,562.51 | 347,517.36 | 676,325.73 | 2,000,832.32 | 3,268,540.94 | 3,338,089.48 |
| Regina, SK | 225,093.98 | 274,788.38 | 446,691.58 | 1,339,513.04 | 1,873,125.29 | 2,312,973.29 |
| St. John's, NL ⁴ | 220,710.90 | 278,943.31 | 522,667.31 | 1,136,229.60 | 1,624,132.00 | 1,958,788.00 |
| Toronto, ON ² | 337,481.39 | 343,518.00 | 689,070.39 | 2,061,454.97 | 3,375,220.07 | 3,446,999.03 |
| Vancouver, BC | 197,235.43 | 239,787.43 | 381,325.53 | 1,156,098.01 | 1,634,106.89 | 1,997,490.89 |
| Winnipeg, MB | 140,650.82 | 169,126.82 | 275,899.80 | 836,175.90 | 1,188,946.80 | 1,443,034.80 |

American Cities

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

1) Customer-owned transformer.

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

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

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

LARGE POWER

Average Prices on April 1, 2020

(in ¢/kWh)¹

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

Canadian Cities

| Montréal, QC | 5.79 | 5.20 | 5.02 | 5.00 | 5.43 | 4.92 |
|--------------------------------|-------|-------|-------|-------|-------|-------|
| Calgary, AB | 10.02 | 9.73 | 9.77 | 9.75 | 9.98 | 9.70 |
| Charlottetown, PE ³ | 10.24 | 9.51 | 9.66 | 9.62 | 10.24 | 9.51 |
| Edmonton, AB ⁴ | 11.30 | 10.64 | 9.18 | 9.05 | 9.62 | 8.91 |
| Halifax, NS | 11.35 | 10.72 | 10.84 | 10.81 | 11.35 | 10.72 |
| Moncton, NB | 8.95 | 8.13 | 7.91 | 7.87 | 8.49 | 7.76 |
| Ottawa, ON | 14.55 | 11.36 | 11.74 | 11.42 | 13.97 | 10.91 |
| Regina, SK | 9.62 | 8.98 | 7.76 | 7.65 | 8.00 | 7.56 |
| St. John's, NL ⁵ | 9.43 | 9.12 | 9.07 | 6.49 | 6.94 | 6.40 |
| Toronto, ON ³ | 14.42 | 11.23 | 11.96 | 11.77 | 14.42 | 11.26 |
| Vancouver, BC | 8.43 | 7.84 | 6.62 | 6.60 | 6.98 | 6.53 |
| Winnipeg, MB | 6.01 | 5.53 | 4.79 | 4.77 | 5.08 | 4.72 |

American Cities

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

1) In Canadian currency.

2) Customer-owned transformer.

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

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

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

LARGE POWER

Comparative Index on April 1, 2020

(Hydro-Québec = 100)

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

Canadian Cities

| Montréal, QC | 100 | 100 | 100 | 100 | 100 | 100 |
|--------------------------------|-----|-----|-----|-----|-----|-----|
| Calgary, AB | 173 | 187 | 195 | 195 | 184 | 197 |
| Charlottetown, PE ² | 177 | 183 | 192 | 192 | 189 | 193 |
| Edmonton, AB ³ | 195 | 205 | 183 | 181 | 177 | 181 |
| Halifax, NS | 196 | 206 | 216 | 216 | 209 | 218 |
| Moncton, NB | 155 | 156 | 157 | 157 | 156 | 158 |
| Ottawa, ON | 251 | 218 | 234 | 228 | 257 | 222 |
| Regina, SK | 166 | 173 | 154 | 153 | 148 | 154 |
| St. John's, NL ⁴ | 163 | 175 | 181 | 130 | 128 | 130 |
| Toronto, ON ² | 249 | 216 | 238 | 235 | 266 | 229 |
| Vancouver, BC | 146 | 151 | 132 | 132 | 129 | 133 |
| Winnipeg, MB | 104 | 106 | 95 | 95 | 94 | 96 |

American Cities

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

1) Customer-owned transformer.

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

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

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

A

Appendix

Rate Adjustments

Average Adjustments

Adjustments by
Customer Category

RATE ADJUSTMENTS

All Categories

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

Data concerning American utilities not available.

n.a.: Not available.

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

RATE ADJUSTMENTS (Between April 1, 2019, and April 1, 2020)

Adjustments by Customer Category

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

Data concerning American utilities not available.

n.a.: Not available.

1) Distribution charge only.

2) Small power.

3) Medium power.

4) Large power.

5) Small industrial.

6) Medium industrial.

7) Large industrial.

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

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

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

B

Appendix

Time-of-Use Rates

Adjustment Clauses

TIME-OF-USE RATES

The utilities listed below apply time-of-use rates for different consumption levels. For the purposes of this study, an annual average has been calculated for utilities whose rates vary according to the season or time of day (or both). In the case of utilities whose supply costs are determined by the market, the average for the month of March 2020 was used.

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

ADJUSTMENT CLAUSES

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

| | |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BC Hydro, BC | Customer Crisis Fund Deferral Account |
| CenterPoint Energy, TX | Accumulated Deferred Federal Income Tax Credit COVID-19 Electricity Relief Program Distribution Cost Recovery Factor Energy Efficiency Cost Recovery Factor Nuclear Decommissioning Charge Rate Case Expenses Surcharge System Benefit Fund Charge Transition Charges Transmission Cost Recovery Factor |
| Commonwealth Edison, IL | Energy Efficiency Pricing & Performance Energy Efficiency Demand Response Balancing Adjustment Mechanism Environmental Cost Recovery Adjustment Franchise Cost Additions Renewable Energy Adjustment Renewable Energy Distributed Generation Rebate Retail Customer Assessments Zero Emission Adjustment |
| Consolidated Edison, NY | Adjustment Factors – MSC and MAC Billing and Payment Processing Charge Clean Energy Standard Supply Surcharge Delivery Revenue Surcharge Dynamic Load Management Surcharge Market Supply Charge Market Supply Charge Capacity Merchant Function Charge Monthly Adjustment Clause Revenue Decoupling Mechanism Adjustment Statement of Tax Sur-Credit System Benefits Charge Value of Distributed Energy Resources Cost Recovery |
| DTE Electric, MI | Energy Waste Reduction Surcharge Low Income Energy Assistance Fund Factor Nuclear Surcharge Power Supply Cost Recovery Clause Renewable Energy Plan Surcharge |
| ENMAX, AB | Balancing Pool Allocation Rider DAS Adjustment Rider Local Access Fee Transmission Access Charge Deferral Account Rider |

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EPCOR, AB | Balancing Pool Rider DAS True-up Rider Local Access Fee SAS True-up Rider Transmission Charge Deferral Account True-Up Rider |
| Eversource Energy, MA | Attorney General Consultant Expenses Basic Service Cost Adjustment Energy Efficiency Charge Grid Modernization Factor Long Term Renewable Contract Adjustment Miscellaneous Charges Net Metering Recovery Surcharge Pension Adjustment Mechanism Performance Based Revenue Adjustment Renewable Energy Charge Residential Assistance Adjustment Factor Revenue Decoupling Adjustment Mechanism Solar Program Cost Adjustment Factor Solar Expansion Cost Recovery Mechanism Solar Massachusetts Renewable Target Storm Cost Recovery Adjustment Factor Storm Reserve Adjustment Mechanism Transition Cost Adjustment Transmission Service Cost Adjustment Vegetation Management 2017 Tax Act Credit Factor |
| Florida Power and Light, FL | Energy Conservation Cost Recovery Clause Capacity Payment Recovery Clause Environmental Cost Recovery Clause Fuel Cost and Purchase Power Recovery Clause |
| Hydro Ottawa, ON | Capacity Based Recovery Disposition of Group 1 Deferral/Variance Accounts (2020) Disposition of Group 2 Deferral/Variance Accounts (2020) Disposition of Global Adjustment Account (2020) Rural or Remote Electricity Rate Protection Charge Smart Metering Entity Charge |
| Maritime Electric, PE | Energy Cost Adjustment Mechanism |
| Nashville Electric Service, TN | TVA Fuel Cost Adjustment |
| Newfoundland and Labrador Hydro, NL | CDM Cost Recovery Adjustment Rate Stabilization Plan Adjustment |
| Nova Scotia Power, NS | Fuel Adjustment Mechanism (AA/BA) |
| Pacific Gas and Electric, CA | California Climate Credit Competition Transition Charge Conservation Incentive Adjustment DWR Bond Energy Cost Recovery Amount New System Generation Charge Nuclear Decommissioning Public Purpose Programs Reliability Services Transmission Rate Adjustments |

Pacific Power and Light, OR

Adjustment Associated with the Pacific Northwest Electric Power Planning Conservation Act
Adjustment to Remove Deer Creek Mine Investment from Base Rate
Base Supply Service
Community Solar Start-Up Cost Recovery Adjustment
Energy Conservation Charge
Federal Tax Act Adjustment
Generation Investment Adjustment
Independent Evaluator Cost Adjustment
Intervenor Funding Adjustment
Net Power Costs
Oregon Corporate Activity Tax Recovery Adjustment
Oregon Solar Incentive Program Deferral
Pilot Program Cost Adjustment
Property Sales Balancing Account Adjustment
Public Purpose Charge
Rate Mitigation Adjustment
Renewable Adjustment Clause
Renewable Resource Deferral Adjustment
TAM Adjustment for Other Revenues

Toronto Hydro, ON

Application of Operations Center Consolidation Plan
Capacity Based Recovery (CBR)
Disposition of Capacity Based Recovery Account
Disposition of Deferral/Variance Accounts
Disposition of Global Adjustment Account
Disposition of Other Post Employment Benefit Variance
Disposition of the Impact for USGAAP
Disposition of IFRS – CGAPP Property Plan and Equipment
Disposition of External Driven Capital Variance Account
Disposition of the Gain on Property Sale
Recovery of 2020 Foregone Revenue
Recovery of Monthly Billing Transition Costs
Rural or Remote Electricity Rate Protection Charge
Smart Metering Entity Charge

C

Appendix **Applicable Taxes**

Residential Sector

General Sector

Industrial Sector

TAXES APPLICABLE TO RESIDENTIAL SERVICE

On April 1, 2020

| | Tax | % (or other) | Applicable |
|------------------------|--------------------------------------|-----------------|------------------------------------------------------|
| Canadian Cities | | | |
| Montréal, QC | Goods and services tax | 5 | To base amount of bill |
| | Québec sales tax | 9.975 | To base amount of bill |
| Calgary, AB | Goods and services tax | 5 | To base amount of bill |
| Charlottetown, PE | Harmonized sales tax | 15 | To base amount of bill |
| Edmonton, AB | Goods and services tax | 5 | To base amount of bill |
| Halifax, NS | Harmonized sales tax | 5 | To base amount of bill |
| Moncton, NB | Harmonized sales tax | 15 | To base amount of bill |
| Ottawa, ON | Harmonized sales tax | 13 | To base amount of bill |
| Regina, SK | Municipal tax | 10 | To base amount of bill |
| | Carbon levy | ¢/kWh | To energy consumption |
| | Goods and services tax | 5 | To base amount of bill |
| St. John's, NL | Harmonized sales tax | 15 | To base amount of bill |
| Toronto, ON | Harmonized sales tax | 13 | To base amount of bill |
| Vancouver, BC | Regional transit levy | \$1.90 | Monthly |
| | Goods and services tax | 5 | To base amount of bill + regional transit levy |
| Winnipeg, MB | Provincial sales tax | 7 | To base amount of bill (heating other than electric) |
| | | 1.4 | To base amount of bill (electric heating) |
| | Municipal tax | 2.5 | To base amount of bill (heating other than electric) |
| | | 0.5 | To base amount of bill (electric heating) |
| | Goods and services tax | 5 | To base amount of bill + municipal tax |
| American Cities | | | |
| Boston, MA | None | | |
| Chicago, IL | State tax | ¢/kWh | Tax varies by energy block |
| | Municipal tax | ¢/kWh | Tax varies by energy block |
| Detroit, MI | State sales tax | 4 | To base amount of bill |
| | City of Detroit utility users' tax | 5 | To base amount of bill |
| Houston, TX | Municipal tax | 1 | To base amount of bill |
| Miami, FL | Gross receipts tax | 2.5641 | To base amount of bill |
| | Franchise fee | 5.997 | To base amount of bill + gross receipts tax |
| | Municipal tax | 10 | To a portion of base amount of bill |
| Nashville, TN | None | | |
| New York, NY | Commodity gross receipts tax | 2.4066 | To commodity component |
| | Delivery gross receipts tax | 4.9024 | To other components |
| | Sales tax | 4.5 | To base amount of bill + gross receipts tax |
| Portland, OR | Multnomah County business income tax | 0.05 | To a portion of base amount of bill |
| | City of Portland franchise tax | 1.5 | To a portion of base amount of bill |
| San Francisco, CA | Energy Commission tax | ¢/kWh | To energy consumption |
| Seattle, WA | State utility tax | 3.8734 | Tax included in rate schedule prices |
| | Seattle occupation tax | 6 | Tax included in rate schedule prices |

TAXES APPLICABLE TO GENERAL SERVICE

On April 1, 2020

| Tax | % (or other) | Applicable |
|------------------------|------------------------------------|------------|
| Canadian Cities | | |
| Montréal, QC | Goods and services tax | 5 |
| | 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 |
| | | 1.6 |
| | Municipal tax | 5 |
| | | 1 |
| | Goods and services tax | 5 |
| American Cities | | |
| Boston, MA | State sales tax | 6.25 |
| Chicago, IL | State tax | ¢/kWh |
| | Municipal tax | ¢/kWh |
| Detroit, MI | State sales tax | 6 |
| | City of Detroit utility users' tax | 5 |
| Houston, TX | State tax | 6.25 |
| | Municipal tax | 1 |
| | Transit tax | 1 |
| Miami, FL | Gross receipts tax | 2.5641 |
| | Franchise fee | 5.997 |
| | Municipal tax | 10 |
| | State sales tax | 6.95 |
| | Local tax | 1 |
| Nashville, TN | State sales tax | 7 |

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

TAXES APPLICABLE TO GENERAL SERVICE (cont'd)

On April 1, 2020

| | Tax | % (or other) | Applicable |
|-------------------|--------------------------------------|-----------------|---------------------------------------------|
| New York, NY | Commodity gross receipts tax | 2.4066 | To commodity component |
| | Delivery gross receipts tax | 2.4276 | To other components |
| | Sales tax | 8.875 | To base amount of bill + gross receipts tax |
| Portland, OR | Multnomah County business income tax | 0.05 | To a portion of base amount of bill |
| | City of Portland franchise tax | 1.5 | To a portion of base amount of bill |
| San Francisco, CA | Energy Commission tax | ¢/kWh | To energy consumption |
| | San Francisco utility users' tax | 5 | To base amount of bill |
| Seattle, WA | State utility tax | 3.8734 | Tax included in rate schedule prices |
| | Seattle occupation tax | 6 | Tax included in rate schedule prices |

TAXES APPLICABLE TO INDUSTRIAL SERVICE

On April 1, 2020

| Tax | % (or other) | Applicable |
|------------------------|------------------------------------|------------|
| Canadian Cities | | |
| Montréal, QC | Goods and services tax | 5 |
| | 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 |
| | | 1.6 |
| | Municipal tax | 5 |
| | | 1 |
| | Goods and services tax | 5 |
| American Cities | | |
| Boston, MA | State sales tax | 6.25 |
| Chicago, IL | State tax | ¢/kWh |
| | Municipal tax | ¢/kWh |
| Detroit, MI | State sales tax | 6 |
| | City of Detroit utility users' tax | 5 |
| Houston, TX | State tax | 6.25 |
| | Municipal tax | 1 |
| | Transit tax | 1 |
| Miami, FL | Gross receipts tax | 2.5641 |
| | Franchise fee | 5.997 |
| | 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 INDUSTRIAL SERVICE (cont'd)

On April 1, 2020

| | Tax | % (or other) | Applicable |
|-------------------|--------------------------------------|-----------------|---------------------------------------------|
| New York, NY | Commodity gross receipts tax | 2.4066 | To commodity component |
| | Delivery gross receipts tax | 2.4276 | To other components |
| | Sales tax | 8.875 | To base amount of bill + gross receipts tax |
| Portland, OR | Multnomah County business income tax | 0.05 | To a portion of base amount of bill |
| | City of Portland franchise tax | 1.5 | To a portion of base amount of bill |
| San Francisco, CA | Energy Commission tax | ¢/kWh | To energy consumption |
| | San Francisco utility users' tax | 5 | To base amount of bill |
| Seattle, WA | State utility tax | 3.8734 | Tax included in rate schedule prices |
| | Seattle occupation tax | 6 | Tax included in rate schedule prices |

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

CANADIAN UTILITIES

HYDRO-QUÉBEC

Montréal, Québec

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

The *Act respecting the Régie de l'énergie* [Québec energy board] established an annual maximum heritage pool of 165 TWh that Hydro-Québec Production must supply to Hydro-Québec Distribution. The division also purchases electricity on the market, primarily through calls for tenders. The average supply cost of heritage pool electricity, set at a fixed price of 2.79¢/kWh since 1998, is indexed on January 1 since 2014 at a rate corresponding to the annual variation in the all-item consumer price index for Québec. The large-power industrial rate (Rate L) is exempt from this indexation.

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

Activities: Generation, transmission and distribution

Installed capacity: 37,243 MW

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

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

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

Wholesale market: Open

Retail market: –

ENMAX

Calgary, Alberta

Activities: Generation, transmission and distribution

Installed capacity: 1,611 MW

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

Number of accounts: 667,700

Distribution regulator: Alberta Utilities Commission

Wholesale market: Open

Retail market: Open

MARITIME ELECTRIC

Charlottetown, Prince Edward Island

Activities: Distribution

Installed capacity: About 145 MW for reserve purposes

Main sources: Purchased from NB Power

Number of accounts: About 80,000

Distribution regulator: Island Regulatory and Appeals Commission

Wholesale market: –

Retail market: –

EPCOR

Edmonton, Alberta

Activities: Transmission and distribution

Installed capacity: –

Main sources: Purchased on market

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

Distribution regulator: Alberta Utilities Commission

Wholesale market: Open

Retail market: Open

NOVA SCOTIA POWER

Halifax, Nova Scotia

Activities: Generation, transmission and distribution

Installed capacity: More than 2,400 MW

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

Number of accounts: 520,000

Distribution regulator: Nova Scotia Utility and Review Board

Wholesale market: –

Retail market: –

SASKPOWER

Regina, Saskatchewan

Activities: Generation, transmission and distribution

Installed capacity: 4,893 MW

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

Number of accounts: About 538,000

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

Wholesale market: Partially open

Retail market: Partially open

NB POWER

Moncton, New Brunswick

Activities: Generation, transmission and distribution

Installed capacity: 3,515 MW

Main sources: Thermal (1,439 MW), hydroelectric (889 MW), nuclear (660 MW) and combustion turbines (525 MW)

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

Distribution regulator: New Brunswick Energy and Utilities Board

Wholesale market: –

Retail market: –

NEWFOUNDLAND AND LABRADOR HYDRO

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

St. John's, Newfoundland and Labrador

Activities: Generation, transmission and distribution

Installed capacity: 1,763 MW

Main sources: Hydroelectric generating stations and fuel

Number of accounts: 38,000 direct customers

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

Wholesale market: –

Retail market: –

HYDRO OTTAWA

Ottawa, Ontario

Activities: Distribution

Installed capacity: –

Main sources: Purchased from Ontario Power Generation

Number of accounts: Over 335,000

Distribution regulator: Ontario Energy Board

Wholesale market: Open

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

NEWFOUNDLAND POWER

(all other customer categories)

St. John's, Newfoundland and Labrador

Activities: Generation, transmission and distribution

Installed capacity: 140 MW

Main sources: Purchased from Newfoundland and Labrador Hydro (93%)

Number of accounts: About 269,000 customers throughout the island of Newfoundland

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

Wholesale market: –

Retail market: –

AMERICAN UTILITIES

TORONTO HYDRO

Toronto, Ontario

Activities: Distribution

Installed capacity: –

Main sources: Purchased from Ontario Power Generation

Number of accounts: About 772,000

Distribution regulator: Ontario Energy Board

Wholesale market: Open

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

BC HYDRO

Vancouver, British Columbia

Activities: Generation, transmission and distribution

Installed capacity: About 12,100 MW

Main sources: Hydroelectric generating stations (about 98%)

Number of accounts: More than 2 million

Distribution regulator: British Columbia Utilities Commission

Wholesale market: Open

Retail market: –

MANITOBA HYDRO

Winnipeg, Manitoba

Activities: Generation, transmission and distribution

Installed capacity: 5,561 MW

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

Number of accounts: About 587,000

Distribution regulator: Manitoba Public Utilities Board

Wholesale market: –

Retail market: –

EVERSOURCE ENERGY

Boston, Massachusetts

Activities: Transmission and distribution

Installed capacity: –

Main sources: Purchased from ISO New England.

Number of accounts: Close to 3.2 million residential, commercial and industrial customers in Massachusetts, Connecticut and New Hampshire

Distribution regulator: Massachusetts Department of Public Utilities

Wholesale market: Open

Retail market: Open

COMMONWEALTH EDISON (ComEd)

Chicago, Illinois

Activities: Transmission and distribution

Installed capacity: –

Main sources: Purchases from Midcontinent Independent System Operator

Number of accounts: Over 4 million customers in northern Illinois

Distribution regulator: Illinois Commerce Commission

Wholesale market: Open

Retail market: Open

DTE ELECTRIC

Detroit, Michigan

Activities: Generation, transmission and distribution

Installed capacity: 11,084 MW

Main sources: Coal, nuclear, natural gas, hydroelectric 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: Transmission and Distribution

Installed capacity: –

Main sources: Purchased from Texas ISO

Number of accounts: Over 2.6 million customers

Distribution regulator: Public Utility Commission of Texas

Wholesale market: Open

Retail market: Open

FLORIDA POWER AND LIGHT (FPL)

Miami, Florida

Activities: Generation, transmission and distribution

Installed capacity: Over 26,500 MW

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

Number of accounts: Over 5 million

Distribution regulator: Florida Public Service

Wholesale market: Open

Retail market: –

NASHVILLE ELECTRIC SERVICE

Nashville, Tennessee

Activities: Distribution

Installed capacity: –

Main sources: Purchased from Tennessee Valley Authority

Number of accounts: Over 400,000

Distribution regulator: Tennessee Valley Authority

Wholesale market: –

Retail market: –

CONSOLIDATED EDISON (ConEd)

New York, New York

Activities: Distribution

Installed capacity: –

Main sources: Purchased from New York Independent System Operator

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

Distribution regulator: New York State Public Service Commission

Wholesale market: Open

Retail market: Open

PACIFIC POWER AND LIGHT

Portland, Oregon

Activities: Generation, transmission and distribution

Installed capacity: Over 10,880 MW

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

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

Distribution regulator: Public Utility Commission of Oregon

Wholesale market: Open

Retail market: Partially open

PACIFIC GAS AND ELECTRIC (PG&E)

San Francisco, California

Activities: Generation, transmission and distribution

Installed capacity: 7,686 MW

Main sources: Purchased from California ISO and thermal, hydroelectric, solar and other generating stations

Number of accounts: 5.5 million

Distribution regulator: California Public Utilities Commission

Wholesale market: Open

Retail market: Partially open

SEATTLE CITY LIGHT

Seattle, Washington

Activities: Generation, transmission and distribution

Installed capacity: 2,006 MW

Main sources: Purchased from Bonneville Power Administration and hydroelectric, wind, biogas generating stations and others

Number of accounts: About 462,000 customers in city of Seattle and certain surrounding communities

Distribution regulator: City of Seattle

Wholesale market: Open

Retail market: –

Information sources

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

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