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# DOMINION BUREAU OF STATISTICS

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## ELECTRIC POWER STATISTICS

January, 1961

Total net generation of electric energy in Canada by firms which produce 10 million kilowatt hours or more per annum amounted to 9,979,248 megawatt hours in January 1961, an increase of 0.9 per cent over the 9,888,213 megawatt hours generated one year ago. Although generation by utilities decreased 0.3 per cent to 7,806,566 mwh. industrial generation rose 5.4 per cent to 2,172,682.

With imports up sharply to 95,650 mwh. from 22,441 and exports down 31.2 per cent to 277,849 mwh. from 404,270 the amount of electric energy made available for use in Canada during January rose 3.1 per cent to a record high of 9,797,049 mwh.

A decline of 16.3 per cent in the amount of energy used in electric boilers, largely in the provinces of Newfoundland and Quebec, brought the amount of electric energy made available for other uses to a new high of 9,215,587 mwh., 4.6 per cent above the previous year.

Energy generated in the 12 month period ending January 31, 1961 amounted to 114,088,192 mwh., a slight increase over the 113,997,157 mwh. generated in the previous 12 month period.

Monthly electric power statistics are designed to provide current information on the production and consumption of electric energy in Canada. In order to expedite the collection and compilation of returns, the series is confined to firms which generate a minimum of 10 million kilowatt hours per annum. These firms, however, accounted for 99.3 per cent of total production in 1959.

In the electric power series, net generation is defined as total generation less the amount used in station service. Net exports to the United States are deducted from total net generation in order to arrive at the amount of electric energy made available for use in Canada. Some of the amount made available is sold as surplus or secondary power and used, for the most part, in electric boilers. As this is the only form of secondary consumption that can readily be ascertained for all provinces, energy used in electric boilers is deducted from the amount made available in order to provide a figure more closely approximating primary consumption which is recognized as the more sensitive economic indicator.

Prepared in the Public Utilities Section

8506-506-11

Electric Energy Made Available

January, 1961

|   | Canada        | Newfoundland | Prince Edward<br>Island | Nova<br>Scotia |
|---|---------------|--------------|-------------------------|----------------|
|   | thousand kwh. |              |                         |                |
| Net generation:   |               |              |                         |                |
| Utilities:  |               |              |                         |                |
| Hydro .....   | 7,126,607     | 84,892       | -                       | 42,983         |
| Thermal .....   | 679,959       | 1,299        | 8,154                   | 112,892        |
| Total utilities .....                                   | 7,806,566     | 86,191       | 8,154                   | 155,875        |
| Industry:   |               |              |                         |                |
| Hydro .....   | 1,969,032     | 31,382       | -                       | 2,300          |
| Thermal .....   | 203,650       | 3,949        | -                       | 8,002          |
| Total industry .....                                    | 2,172,682     | 35,331       | -                       | 10,302         |
| Total net generation .....                              | 9,979,248     | 121,522      | 8,154                   | 166,177        |
| Energy imported:  |               |              |                         |                |
| From other provinces .....                              | ...           | -            | -                       | -              |
| From United States .....                                | 95,650        | -            | -                       | -              |
| Total imported .....                                    | 95,650        | -            | -                       | -              |
| Energy exported:  |               |              |                         |                |
| To other provinces .....                                | ...           | 6,503        | -                       | 12,487         |
| To United States - Primary .....                        | 96,841        | -            | -                       | -              |
| Secondary .....   | 181,008       | -            | -                       | -              |
| Total exported .....                                    | 277,849       | 6,503        | -                       | 12,487         |
| Energy made available in Canada(1) .....                | 9,797,049     | 115,019      | 8,154                   | 153,690        |
| Amount used in electric boilers .....                   | 581,462       | 1,555        | -                       | -              |
| Energy made available less amount used in boilers ..... | 9,215,587     | 113,464      | 8,154                   | 153,690        |
| Cumulative totals, January - 1961                       |               |              |                         |                |
| Net generation:   |               |              |                         |                |
| Utilities:  |               |              |                         |                |
| Hydro .....   |               |              |                         |                |
| Thermal .....   |               |              |                         |                |
| Total utilities .....                                   |               |              |                         |                |
| Industry:   |               |              |                         |                |
| Hydro .....   |               |              |                         |                |
| Thermal .....   |               |              |                         |                |
| Total industry .....                                    |               |              |                         |                |
| Total net generation .....                              |               |              |                         |                |
| Energy imported:  |               |              |                         |                |
| From other provinces .....                              |               |              |                         |                |
| From United States .....                                |               |              |                         |                |
| Total imported .....                                    |               |              |                         |                |
| Energy exported:  |               |              |                         |                |
| To other provinces .....                                |               |              |                         |                |
| To United States - Primary .....                        |               |              |                         |                |
| Secondary .....   |               |              |                         |                |
| Total exported .....                                    |               |              |                         |                |
| Energy made available in Canada(1) .....                |               |              |                         |                |
| Amount used in electric boilers .....                   |               |              |                         |                |
| Energy made available less amount used in boilers ..... |               |              |                         |                |
| January 1960  |               |              |                         |                |
| Total net generation .....                              | 9,888,213     | 127,657      | 6,968                   | 153,288        |
| Total energy imported .....                             | 22,441        | -            | -                       | -              |
| Total energy exported .....                             | 404,270       | 5,117        | -                       | 1,392          |
| Total made available in Canada(1) .....                 | 9,506,384     | 122,540      | 6,968                   | 151,896        |
| Amount used in electric boilers .....                   | 694,361       | 14,212       | -                       | -              |
| Total made available less amount used in boilers .....  | 8,812,023     | 108,328      | 6,968                   | 151,896        |
| January -   |               |              |                         |                |
| Total net generation .....                              |               |              |                         |                |
| Total energy imported .....                             |               |              |                         |                |
| Total energy exported .....                             |               |              |                         |                |
| Total made available in Canada(1) .....                 |               |              |                         |                |
| Amount used in electric boilers .....                   |               |              |                         |                |
| Total made available less amount used in boilers .....  |               |              |                         |                |

(1) Includes interruptible and at-will energy and energy used in electric boilers.  
... Figures not appropriate or not applicable.

Electric Energy Made Available

January, 1961

| New Brunswick | Quebec      | Ontario     | Manitoba  | Saskatchewan | Alberta | British Columbia | Yukon and N.W.T. |
|---------------|-------------|-------------|-----------|--------------|---------|------------------|------------------|
| thousand kwh. |             |             |           |              |         |                  |                  |
| 54,196        | 3,188,188   | 2,710,077 ✓ | 343,407 ✓ | 55,958       | 76,939  | 558,949 ✓        | 11,018           |
| 47,264        | 365         | 81,265      | 8,676     | 166,520      | 231,793 | 20,182           | 1,549            |
| 101,460       | 3,188,553   | 2,791,342   | 352,083   | 222,478      | 308,732 | 579,131          | 12,567           |
| 3,256         | 1,195,488 ✓ | 120,524 ✓   | 4,371 ✓   | 3,055        | -       | 605,336 ✓        | 3,320            |
| 42,998        | 21,370      | 57,225      | -         | 4,308        | 24,386  | 41,412           | -                |
| 46,254        | 1,216,858   | 177,749     | 4,371     | 7,363        | 24,386  | 646,748          | 3,320            |
| 147,714       | 4,405,411   | 2,969,091   | 356,454   | 229,841      | 333,118 | 1,225,879        | 15,887           |
| 14,302        | 8,559       | 565,553     | 95,332    | 391          | 899     | 398              | -                |
| 124           | 70          | 93,956      | -         | -            | -       | 1,500            | -                |
| 14,426        | 8,629       | 659,509     | 95,332    | 391          | 899     | 1,898            | -                |
| -             | 567,368     | 38,947      | 391       | 58,441       | 398     | 899              | -                |
| 8,710         | 29,814      | 58,195      | -         | -            | -       | 122              | -                |
| 2,810         | 10,003      | 165,069     | 4         | -            | -       | 3,122            | -                |
| 11,520        | 607,185     | 262,211     | 395       | 58,441       | 398     | 4,143            | -                |
| 150,620       | 3,806,855   | 3,366,389   | 451,391   | 171,791      | 333,619 | 1,223,634        | 15,887           |
| -             | 447,304     | 63,670      | 36,826    | -            | -       | 27,182           | 4,925            |
| 150,620       | 3,359,551   | 3,302,719   | 414,565   | 171,791      | 333,619 | 1,196,452        | 10,962           |

Cumulative totals, January - 1961

|         |           |           |         |         |         |           |        |
|---------|-----------|-----------|---------|---------|---------|-----------|--------|
| 153,170 | 4,355,807 | 3,048,292 | 355,758 | 204,945 | 310,328 | 1,158,516 | 13,484 |
| 3,039   | 6,912     | 593,401   | 72,640  | 694     | 1,824   | 8,012     | -      |
| 14,272  | 628,439   | 360,495   | 373     | 54,096  | 884     | 3,283     | -      |
| 141,937 | 3,734,280 | 3,281,198 | 428,025 | 151,543 | 311,268 | 1,163,245 | 13,484 |
| -       | 547,099   | 57,426    | 48,324  | -       | -       | 25,535    | 1,765  |
| 141,937 | 3,187,181 | 3,223,772 | 379,701 | 151,543 | 311,268 | 1,137,710 | 11,719 |



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Electric Energy Made Available

January, 1951

| Month           | Total net generation | Imports from United States | Exports to United States | Total made available in Canada | Total made available less amount used in boilers | Daily Average        |                      |
|-----------------|----------------------|----------------------------|--------------------------|--------------------------------|--|----------------------|----------------------|
|                 |                      |                            |                          |                                |  | Total net generation | Total made available |
| thousand kwh.   |                      |                            |                          |                                |  |                      |                      |
| January .....   | 9,979,248            | 95,650                     | 277,849                  | 9,797,049                      | 9,215,587  | 321,911              | 316,034              |
| February .....  |                      |                            |                          |                                |  |                      |                      |
| March .....     |                      |                            |                          |                                |  |                      |                      |
| April .....     |                      |                            |                          |                                |  |                      |                      |
| May .....       |                      |                            |                          |                                |  |                      |                      |
| June .....      |                      |                            |                          |                                |  |                      |                      |
| July .....      |                      |                            |                          |                                |  |                      |                      |
| August .....    |                      |                            |                          |                                |  |                      |                      |
| September ..... |                      |                            |                          |                                |  |                      |                      |
| October .....   |                      |                            |                          |                                |  |                      |                      |
| November .....  |                      |                            |                          |                                |  |                      |                      |
| December .....  |                      |                            |                          |                                |  |                      |                      |
| Year .....      |                      |                            |                          |                                |  |                      |                      |

Net Generation, 1949-61

CANADA

| Year and month     | Utilities  |           |            | Industry   |           |            | Grand total |
|--------------------|------------|-----------|------------|------------|-----------|------------|-------------|
|                    | Hydro      | Thermal   | Total      | Hydro      | Thermal   | Total      |             |
| thousand kwh.      |            |           |            |            |           |            |             |
| 1949 .....         | 35,783,737 | 1,390,562 | 37,174,299 | ..         | ..        | 12,889,749 | 50,064,048  |
| 1950 .....         | 39,342,277 | 1,647,557 | 40,989,834 | ..         | ..        | 13,428,593 | 54,418,427  |
| 1951 .....         | 45,819,227 | 1,732,652 | 47,551,879 | ..         | ..        | 13,369,527 | 60,921,406  |
| 1952 .....         | 49,156,895 | 2,222,115 | 51,379,010 | ..         | ..        | 14,086,950 | 65,465,960  |
| 1953 .....         | 49,160,361 | 3,797,345 | 52,957,706 | ..         | ..        | 16,400,824 | 69,358,530  |
| 1954 .....         | 51,713,904 | 3,178,434 | 54,892,338 | ..         | ..        | 17,547,555 | 72,439,893  |
| 1955 .....         | 57,996,293 | 3,197,153 | 61,193,446 | ..         | ..        | 18,381,161 | 79,574,607  |
| 1956 .....         | 64,013,966 | 4,292,898 | 68,306,864 | ..         | ..        | 19,119,968 | 87,426,832  |
| 1957 .....         | 65,817,043 | 5,572,995 | 71,390,038 | 17,155,908 | 1,714,697 | 18,870,605 | 90,260,643  |
| 1958 .....         | 70,838,966 | 4,690,734 | 75,529,700 | 19,409,459 | 1,816,609 | 21,226,068 | 96,755,768  |
| 1959 .....         | 77,251,848 | 5,286,363 | 82,538,211 | 19,265,330 | 2,052,553 | 21,317,883 | 103,856,094 |
| 1960 .....         | 83,024,886 | 5,931,279 | 88,956,165 | 22,743,499 | 2,297,493 | 25,040,992 | 113,997,157 |
| 1960 January ..... | 7,321,813  | 505,605   | 7,827,418  | 1,869,453  | 191,342   | 2,060,795  | 9,888,213   |
| February .....     | 6,933,208  | 466,596   | 7,399,804  | 1,856,992  | 186,129   | 2,043,121  | 9,442,925   |
| March .....        | 7,291,110  | 527,259   | 7,818,369  | 2,028,749  | 221,467   | 2,250,216  | 10,068,585  |
| April .....        | 6,881,069  | 412,595   | 7,293,664  | 1,929,442  | 185,714   | 2,115,156  | 9,408,820   |
| May .....          | 6,987,146  | 403,964   | 7,391,110  | 1,778,285  | 198,432   | 1,976,717  | 9,367,827   |
| June .....         | 6,778,899  | 383,823   | 7,162,722  | 1,778,372  | 191,594   | 1,969,966  | 9,132,688   |
| July .....         | 6,641,461  | 403,830   | 7,045,291  | 1,835,921  | 173,298   | 2,009,219  | 9,054,510   |
| August .....       | 6,717,367  | 491,613   | 7,208,980  | 1,926,008  | 188,389   | 2,114,397  | 9,323,377   |
| September .....    | 6,625,090  | 536,620   | 7,161,710  | 1,895,961  | 191,613   | 2,087,574  | 9,249,284   |
| October .....      | 6,821,417  | 598,936   | 7,420,353  | 1,962,466  | 188,592   | 2,151,058  | 9,571,411   |
| November .....     | 6,893,835  | 578,001   | 7,471,836  | 1,918,275  | 194,334   | 2,112,609  | 9,584,445   |
| December .....     | 7,132,471  | 622,437   | 7,754,908  | 1,963,575  | 186,589   | 2,150,164  | 9,905,072   |
| 1961 January ..... | 7,126,607  | 679,959   | 7,806,566  | 1,969,032  | 203,650   | 2,172,682  | 9,979,248   |
| February .....     |            |           |            |            |           |            |             |
| March .....        |            |           |            |            |           |            |             |
| April .....        |            |           |            |            |           |            |             |
| May .....          |            |           |            |            |           |            |             |
| June .....         |            |           |            |            |           |            |             |
| July .....         |            |           |            |            |           |            |             |
| August .....       |            |           |            |            |           |            |             |
| September .....    |            |           |            |            |           |            |             |
| October .....      |            |           |            |            |           |            |             |
| November .....     |            |           |            |            |           |            |             |
| December .....     |            |           |            |            |           |            |             |

.. Figures not available.