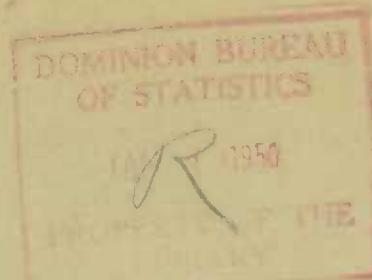


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GOVERNMENT OF CANADA

CENSUS OF INDUSTRY

1947

CENTRAL ELECTRIC STATIONS

IN CANADA



DOMINION BUREAU OF STATISTICS
DEPARTMENT OF TRADE AND COMMERCE

Published by Authority of the Rt. Hon. C. D. Howe
Minister of Trade and Commerce

Prepared in the Transportation Division,
Dominion Bureau of Statistics, Ottawa

CENTRAL ELECTRIC STATION INDUSTRY

1947

For the purpose of the annual census, central electric stations are defined as companies, municipalities, or individuals selling or distributing electric energy, whether generated by themselves or purchased for resale. The stations are divided into two classes according to ownership, viz., (a) commercial, those operated by companies or individuals and (b) municipal, those operated by municipal, provincial or federal governments. The stations are also divided according to operation into (a) generating, those stations generating power which they sell (many of them also purchase power to supplement their own output), and (b) non-generating, those stations which purchase practically all the power they sell. In this last class there were 12 stations which were holding generating equipment classed as auxiliary plant equipment. Eight of them purchased all their electric energy and the remaining four generated only 679,000 kilowatt hours. This explains the rather anomalous item in table 12 showing the output of non-generating stations.

Included in these statistics are those of a few stations engaged primarily in other industries, such as mining, manufacturing of pulp and paper, etc., which sell surplus power. For such plants the statistics pertaining to the central electric station phase of the industry have been segregated as far as possible. Equipment, which is not used primarily for the Central Electric Station Industry, is not shown in the current report, accounting for a drop in the number of units listed for commercial stations as compared with former years. This is especially noticeable in Saskatchewan and Alberta.

Stations are allowed to file returns for their fiscal years which are not calendar years in all cases. Consequently the output as recorded in this annual report will not coincide with the output of the twelve calendar months shown in the monthly reports. The various data, however, in the annual reports are for comparable periods. Moreover, the monthly does not include statistics for several small stations and shows net power generated by reporting stations, whereas the annual excludes power for company use.

During 1947 primary power consumed in Canada (including all line losses) increased from 31,197,396,000 kilowatt hours in 1946 to 35,816,005,000 kilowatt hours, or by 14.8 per cent, but the consumption of secondary power decreased from 8,067,487,000 kilowatt hours in 1946 to 5,595,344,000, or by 30.6 p.c.

Secondary power is off-peak or surplus power delivered as it is available. It is subject to interruption or variation daily and seasonally, and consequently is sold at relatively low rates. The stations endeavour to keep their "secondary" customers advised as much in advance as possible of interruptions or reductions, which may be due to variations in water supply or in the demands of customers for primary power.

Primary power, also known in the industry as firm power, is power delivered as and when demanded or required by the customer. Stations must be ready to deliver power to primary power customers up to the rate contracted for, whenever the customer requires it, and consequently must have sufficient capacity to take care of all such demands. In practice, all customers on a system do not require their maximum deliveries at the same time and generally there is a considerable difference hourly and daily in the rate at which the power plant must operate to produce the power as required. Most of the secondary power is sold

to pulp and paper mills for the production of low pressure steam where short interruptions of the electric energy for the boilers can be tolerated without much inconvenience. Secondary sales are confined mainly to Quebec, Ontario and Manitoba.

According to monthly reports, the consumption of primary power continued to decline up to and including August, 1946, but from then on steady increases were recorded. Deliveries of secondary power monthly were considerably greater in 1946 than in 1945 but began to register declines in 1947 which were continued to include March, 1949. The cumulative total for the first eight months of 1948 was 2,095,810,000 kilowatt hours of secondary consumption against 1,809,996,000 in the same months of 1948 and 4,518,656,000 in a similar period of 1947. During 1947 the pulp and paper industry again became the largest user of electrical energy, accounting for some 23 p.c. of the total production. The aluminium industry, which is included in the metal, smelting and refining class, was also a major consumer; approximately ten kilowatt hours of energy is required to produce one pound of aluminium. Secondary exports were 637,517,000 kilowatt hours during 1947 compared with 1,074,315,000 in 1946.

The production of electric energy for secondary use each month is shown below:

SECONDARY POWER FOR USE IN CANADA
(Thousands of Kilowatt Hours)

| Month | 1 9 3 9 | 1 9 4 4 | 1 9 4 5 | 1 9 4 6 | 1 9 4 7 |
|--------------|------------------|------------------|------------------|------------------|------------------|
| January | 607,070 | 132,138 | 545,019 | 680,016 | 591,531 |
| February | 605,257 | 146,975 | 506,380 | 645,940 | 566,473 |
| March | 619,756 | 167,028 | 618,420 | 728,074 | 629,033 |
| April | 527,079 | 162,288 | 674,236 | 735,281 | 559,256 |
| May | 578,058 | 319,574 | 623,467 | 758,487 | 574,708 |
| June | 526,652 | 263,938 | 560,819 | 679,995 | 546,714 |
| July | 488,165 | 126,336 | 491,774 | 669,444 | 485,508 |
| August | 505,652 | 209,721 | 481,841 | 661,116 | 385,453 |
| September | 590,900 | 201,485 | 450,404 | 589,653 | 362,825 |
| October | 684,433 | 267,605 | 545,700 | 641,481 | 434,161 |
| November | 685,441 | 347,940 | 574,349 | 649,611 | 265,024 |
| December | 615,246 | 398,093 | 573,415 | 628,389 | 215,678 |
| TOTAL | 7,033,709 | 2,743,121 | 6,645,824 | 8,067,487 | 5,595,344 |

For the following table data covering the 6 groups were taken from the industrial census reports of the industries; and consumption for other industries was computed by deduction, and consequently is only approximately correct. Ferro-alloys and steel furnaces are now shown under the heading of Primary Iron and Steel, which also covers pig iron and rolling mills.

DISTRIBUTION AND CONSUMPTION OF ELECTRIC ENERGY GENERATED, 1947
(Thousands of Kilowatt Hours)

| Industries | Central Electric Station Power Purchased | | | | Power Generated by the Industries for own use |
|---|--|----------------|-----------------------------------|--------------------------|---|
| | Power and Light | Other Purposes | Total Central Electric Stn. Power | P.C. of Total Production | |
| Pulp and Paper | 6,487,951 | 3,484,754 | 9,972,705 | 22.96 | 2,516,376 |
| Primary Iron and Steel | 441,627 | 1,165,414 | 1,607,041 | 3.70 | 101,212 |
| Abrasives | 24,656 | 807,358 | 831,994 | 1.92 | - |
| Electro-Chemicals | 124,656 | 1,232,920 | 1,357,576 | 3.15 | 109,007 |
| Metal, Smelting & Refining | 758,409 | 6,744,744 | 7,503,153 | 17.28 | 552,604 |
| Other Manufacturing | 4,807,405 | 648,365 | 5,455,770 | 12.56 | 388,336 |
| Total Manufactures | 12,644,704 | 14,083,535 | 26,728,239 | 61.55 | 3,467,535 |
| | | | | | |
| Other Industries | | | 4,130,662 | 9.51 | |
| Domestic Service (Residential) | | | 4,583,222 | 10.09 | |
| Commercial Lighting | | | 2,060,614 | 4.75 | |
| Street Lighting | | | 245,442 | 0.56 | |
| Free Service | | | 68,327 | 0.16 | |
| Exports to U.S.A. | | | 2,066,487 | 4.76 | |
| Losses | | | 3,741,806 | 8.62 | |
| | | | | | |
| TOTAL OUTPUT OF CENTRAL ELECTRIC STATIONS | | | 45,424,799 | 100.00 | |

Electricity is exported from Canada only by licence granted by the Electricity and Gas Inspection Services of the Department of Trade and Commerce, and the same branch of the Department has jurisdiction over the export duty which has been imposed since April 1, 1925. During the calendar year ended December 31, 1947, the export duty amounted to \$502,615.56. The rate is three one-hundredths of one cent per kilowatt hour on electric energy exported.

Below is a table showing the quantities of power exported for the calendar year 1947. The data for this table were compiled from the reports of the Director of the Electricity and Gas Inspection Services.

KILOWATT HOURS EXPORTED TO THE UNITED STATES

(Calendar Years 1946 and 1947)

| Company | Exported | Exported |
|---|---------------|---------------|
| | 1946 | 1947 |
| | Kw. Hrs. | Kw. Hrs. |
| Hydro Electric Power Commission of Ontario | 394,200,000 | 391,102,400 |
| " " " " " (surplus)- Niagara | 850,952,549 | 484,844,300 |
| " " " " " " - Cornwall | 127,867,000 | 68,210,000 |
| Quebec Hydro Commission | 614,992,847 | 634,475,609 |
| Canadian Niagara Power Company, Ltd. | 524,484,986 | 521,725,500 |
| " " " " " (surplus) | 93,806,074 | 71,269,622 |
| Ontario and Minnesota Power Company | 32,073,000 | 48,429,000 |
| Maine and New Brunswick Electric Power Company | 33,876,359 | 34,938,946 |
| British Columbia Electric Railway Company, Ltd. | 323,260 | 408,630 |
| Northport Power and Light Company | 20,619 | 33,210 |
| Southern Canada Power Company | 2,705,079 | 4,289,825 |
| Canadian Cottons, Ltd. | 2,868,000 | 422,400 |
| Northern British Columbia Power Company | 33,120 | 55,410 |
| Fraser Companies, Ltd. | 1,288,000 | 4,169,000 |
| Detroit and Windsor Subway Company | 528,100 | 523,400 |
| Manitoba Power Commission | 1,013,740 | 1,809,600 |
| TOTAL | 2,481,630,753 | 2,066,486,852 |

Of the total Canadian output of 43,424,799,000 kilowatt hours, 42,273,167,000 kilowatt hours, or 97.3 per cent, was produced by water power, whereas only 1,055,199,000 kilowatt hours were produced by plants using only thermal engines and 116,455,000 kilowatt hours were produced by thermal auxiliary equipment in hydraulic plants and in non-generating plants.

Total hydraulic installations in all industries in Canada at the close of 1947, including active and inactive plants, as compiled by the Dominion Water and Power Bureau, were rated at 10,490,923 horse power. The available and developed water power in each province is shown below.

POTENTIAL AND DEVELOPED WATER POWER IN CANADA

| Province | Available 24 hour Power at 80% Efficiency | | Turbine Installation December 31 | |
|---------------------------------------|--|--------------------------------|-------------------------------------|------------|
| | At Ordinary Minimum Flow | At Ordinary Six Months Flow | 1947 | 1948 |
| | H. P. | H. P. | H. P. | H. P. |
| Prince Edward Island | 3,000 | 5,300 | 2,617 | 2,617 |
| Nova Scotia | 20,800 | 128,300 | 133,384 | 140,884 |
| New Brunswick | 68,600 | 169,100 | 133,547 | 133,547 |
| Quebec | 8,459,000 | 13,064,000 | 5,878,872 | 5,959,697 |
| Ontario | 5,407,200 | 7,261,400 | 2,749,740 | 2,894,240 |
| Manitoba | 3,309,000 | 5,344,500 | 458,825 | 503,700 |
| Saskatchewan | 542,000 | 1,082,000 | 90,835 | 111,855 |
| Alberta | 507,800 | 1,258,000 | 106,560 | 106,560 |
| British Columbia | 7,023,000 | 10,998,000 | 917,024 | 1,009,769 |
| Yukon and Northwest Territories .. | 382,500 | 813,500 | 19,719 | 28,069 |
| CANADA | 25,722,900 | 40,124,100 | 10,490,923 | 10,870,718 |

The horse power figures in columns 2 and 3 are based only upon rapids, falls and power sites of which the actual drop or head possible of concentration is definitely known or reasonably well established. Many water-powers of greater or less capacity from coast to coast have not yet been recorded, which will increase the totals. With the construction of storage basins and other regulating works these potential power figures will be further increased. It is common practice, and feasible in most developments, to install equipment with capacity considerably greater than the theoretical continuous power of the water fall and on this basis it is estimated that the maximum installation capacity of the recorded water-powers of Canada was 52,000,000 horse power at the end of 1948. To this estimate must now be added the potential of Newfoundland - Labrador of some 5,000,000 horse power, of which about 5 p.c. has been developed.

Figuratively, nearly every Canadian has the miracle of an "electric horse" at his command to help him do his work, to light his way, to chill or cook his food, to heat his water, to drive his tram or train, to bring him music and entertainment, to turn night into day, and do a thousand and one things with incredible speed and efficiency. This magic horse is willing and able to work 24 hours a day the year long - ever at the call of his master's finger tip. The miracle of electricity has made possible our standard of living and the tremendous development of the past half century. And in reserve, thundering down the white-maned falls and rapids of the hinterland, many millions of magic Centaurs^x await the harness of this and future generations.

^x "A mythic and powerful archer, half man, half beast, who neighs like a horse, whose eyes sparkle with fire and strike dead like lightning".

TABLE 1 - (Page 14) - COMPARATIVE SUMMARY, 1938-1947

In the period from 1938 to 1947 revenues of central electric stations have risen from \$144,551,627 to \$258,929,627, or by 65.5 p.c., while electric energy generated advanced from 26,154,160,000 kilowatt hours to 43,424,799,000, or by 66.0 p.c. The number of domestic customers, including farm service, rose 686,859 in the decade to 2,246,253 and average consumption increased considerably along with the installation of electrical appliances and motors.

Revenues from domestic or residential use rose from \$62,820,120 in 1946 to \$70,258,591 in 1947, or by 11.8 p.c.; from commercial lighting, \$57,204,822 to \$40,789,520; and from street lighting from \$5,261,115 to \$5,367,504. Small power users paid \$12,014,540 in 1947 compared with \$11,522,592 one year earlier while large power customers, such as paper mills and smelters, contributed \$106,656,652 as against \$105,495,981, up 1.1 p.c.

Reported expenses, which include only four items - wages, power purchased, fuel and taxes, increased from \$156,708,176 in 1946 to \$182,136,045. Wages rose from \$52,380,686 to \$67,417,517 with an increase of 2,127 employees; taxes were \$26,218,543 against \$22,169,479 in 1946; cost of purchased power (interchanged between stations) advanced from \$76,572,805 to \$81,815,780, while fuel costs were up \$1,099,199 over 1946 at \$6,684,405 during 1947.

Pole line mileage increased considerably during the year at 98,530 miles compared with 89,251 miles in 1946, and with wooden pole mileage advancing from 80,759 miles to 89,864. Customers numbered 2,643,527 in 1947, almost double the number twenty years previous and about 166,500 above 1946. Domestic or residential service customers, including farms, represented 2,246,253 or 85 p.c. of the national total. The farm customers added during the year aggregated 21,246 with the total 169,518, an increase of 14.3 p.c. against an advance of 6.2 p.c. in other domestic service customers.

Total production of all stations amounted to 43,424,799,000 kilowatt hours, of which 2,066,487,000 or 4.8 p.c. was exported to the United States. Imports from the North West Power Pool (Bonneville, etc.) by British Columbia stations totalled 51,979,000 kilowatt hours during 1947, while total imports for all Canada were 53,037,000 kilowatt hours. Commercial stations generated 27,665,524,000 kilowatt hours during the year, or 63.7 p.c. of the national total, while municipal stations contributed 15,759,275,000 kilowatt hours, or 36.3 p.c.

However, municipal stations purchased considerable of the output of commercial stations at wholesale and distributed it to their widespread customers. This is particularly true of Western Quebec where commercial stations deliver a large part of their production to the Ontario Hydro Commission's system. Revenues of municipal stations were \$129,066,419 in 1947 compared with \$109,863,208 for commercial stations and the municipal group had twice as many customers as the commercial.

The total capacity of primary equipment in central station main plants registered a small decrease from 1946, falling from 9,825,459 to 9,601,157 horse power. Primary here signifies water wheels and turbines, steam and internal combustion engines used to operate generators, which in turn are classed as secondary power equipment. The decline from 1946 was due to a change in British Columbia where Consolidated Mining and Smelting Company took over West Kootenay central plants 2, 3, 4 and 5, which formerly generated power for sale mainly to the company.

TABLE 2 - (Page 16) - DOMESTIC SERVICE, 1938-1947

This table illustrates the steady growth in the number of domestic customers, total consumption, revenue, average consumption per customer and in the annual average bill over the period from 1938 to 1947, for Canada and in each province. Contrasting with these advances in the industry is the noteworthy decrease in revenue per kilowatt hour - a unique exception in an era of rising prices. This is confirmed by the annual index numbers of cost of electricity for domestic service which dropped from 96.4 in 1938 on the 1935-39 base of 100 to 84.8 in 1947. Similarly, rates for like amounts of commercial and small power for a representative city registered decreases from 1938 to 1947 of about 8 p.c. despite increased taxes and operating costs.

In all provinces the number of domestic customers, including farms, increased considerably during the period, the percentage gains ranging from 35 p.c. in Ontario to 72 p.c. in New Brunswick. The rate of consumption also rose steadily in each province with the largest relative advances in the Maritimes and Quebec. Revenues increased by 70 p.c. or \$28,956,484 to \$70,258,591, with every province registering improvement. The average annual consumption per customer varied widely between provinces, Manitoba leading with a 1947 average of 4,304 kilowatt hours due in part to water heaters, and New Brunswick

recorded the smallest consumption at 851 kilowatt hours. Ontario averaged 2,758 kilowatt hours per domestic customer against 1,096 in Quebec and 1,457 in British Columbia.

In the face of rising consumption the annual average bills have shown relatively small changes over the past ten years. The 1947 average for Canada stood at \$51.28 compared with \$26.49 in 1938, an increase of only 18.1 p.c., whereas consumption jumped over 100 p.c. Bills ranged from \$24.00 in Quebec to \$50.16 in Prince Edward Island, with Ontario at \$31.61. Prince Edward Island, Saskatchewan and Alberta bills were partly affected by the higher costs of thermal generation, whereas the Manitoba average reflects the widespread use of flat rate water heaters. The bills exclude federal, provincial or municipal taxes on electricity purchased.

Domestic service is discussed further under Table 4 and elsewhere in this report on pages 11, 12, etc.

TABLE 3 - (Page 18) - POWER PLANTS

Generating stations are the individual power plants of the central electric organizations. Each building housing power-producing machinery is counted as a generating station. The commercial organizations are companies or individuals selling electric energy and the municipal group includes urban and rural municipalities, provincial commissions, etc. selling power. Those generating power may operate from one to several power plants each, sometimes sited at different falls or rapids on the same river as the Gatineau, Ottawa, etc. The largest system is the Ontario Hydro-Electric Power Commission which operated 55 hydraulic plants and owned one steam auxiliary plant in 1947. The auxiliary or standby plants are thermal power equipment belonging to hydraulic systems or non-generating systems and are not included above as generating stations.

Of the 607 plants operated during 1947, 510 were hydraulic, principally in Ontario, Quebec and British Columbia, while 297 were thermal situated mainly in Saskatchewan and Alberta. However, the hydraulic stations generated nearly 98 p.c. of the power produced in Canada during the year.

TABLE 4 - (Pages 20-21) - REVENUES

Central electric stations report a division of customers, consumption and revenue according to the following headings: (1) farm service, (2) domestic service, which includes lighting and all other residential uses, (3) commercial light, (4) power, small, 50 kw. and under, (5) power, large, over 50 kw., (6) beginning in 1946, power, municipal, mainly used in water pumping stations, (7) sales to distributing companies, and (8) street lighting; also, the quantity of electricity supplied free to public buildings, company towns, etc.

The revenue is the gross revenue less cost of power, or is the revenue received from the consumers, except where power is purchased by a station in one province from a station in another province, the cost of such power is not deducted in computing provincial data, but is deducted in computing the Dominion totals. In reports prior to 1932 this exception was not made and consequently the revenues of Ontario, New Brunswick and Alberta, which purchased power from other provinces, were lower than they should have been.

The average revenues per kilowatt hour sold are affected by many factors and are not always indicative of the relative costs for similar services. The averages for domestic services and for commercial lighting are for more or less identical services for each station, but even here the use of electric stoves, flat rate water heaters, the source of supply, the firm power load, the market for off-peak and surplus power, and the cost of generation, transmission, and distribution all affect the rates. Domestic service data are discussed further at the end of the report. As might be expected, Quebec stations with their enormous sales to pulp and paper mills, aluminium plants, wholesale to Ontario, etc., showed a smaller proportion of revenue from domestic service than any other stations, although greater in dollars than those in other provinces except Ontario. In computing the average total revenue per kilowatt hour all line losses were included, but for domestic service and farm services, for commercial light, etc., line losses were not included, the consumptions for these services being measured at the consumers' meters. The average revenue per kilowatt hour consumed for each province is the revenue received from ultimate consumers within each province plus revenue received for power exported from the province, divided by the total kilowatt hours so sold, including all line losses. The average revenues per kilowatt hour for domestic service are affected by the consumption per customer and by the relative quantities used for lighting, cooking and water heaters; often different rates apply to these different services. In most municipalities, when the consumption increases, the average cost per kilowatt hour to the consumer decreases. Also, where flat rates apply to water heaters, the average cost per kilowatt hour for all domestic services is reduced and, as the number of flat rate heaters is increased, the average for the municipality or province is decreased, if not offset by increases

in rates elsewhere. The average revenue of 1.60 cents per kilowatt hour for all domestic service, or 1.55 cents with farm services excluded, compares with an average of 5.09 cents in the United States, or nearly double the Canadian figure. Over 68 p.c. of U.S. generation is by steam compared with about 2 p.c. in Canada. The average revenues per horse power and per kilovolt ampere are affected by the classes of service and their relative importance in each province. Quebec stations sell large quantities of power to Ontario distributors. The Quebec stations are credited with the wholesale revenue and the Ontario stations with the retail revenue from this power. In computing the averages for Ontario stations the equipment capacities shown in table 12 were increased one horse power for each 4,576 kilowatt hours imported from Quebec stations and one kilovolt ampere for each 6,156 kilowatt hours imported. This is only an estimate of the equipment and was based on the Ontario Hydro-Electric Power Commission's contracts with Quebec companies which call for 88 kilowatt hours per week for each horse power purchased. It is quite probable this output is a little too high for all the power imported from Quebec, and consequently the divisors are too small and the average revenues are too high. It is not likely the errors are large and the adjusted averages are more nearly comparable with the averages for the other provinces than the unadjusted averages as shown in reports previous to 1936. The imports into New Brunswick and Alberta are relatively so small that their effects on the averages would be negligible.

The Federal sales tax on domestic service bills has been treated by practically all central electric stations as a tax on the consumer and was not included in either revenues or expenses. The Act placed the tax on the producer or importer, but a subsequent Order in Council allowed the producer or importer to increase the charge to the consumer by the amount of the tax irrespective of any agreements, charters, etc. Only a few stations absorbed this tax, most of them passed it on to the consumer. Also, provincial and municipal taxes on domestic bills, where imposed, have not been included as either revenue or expenses. The 8 p.c. Federal tax was removed November 17, 1947. Quebec (2 p.c.) and Saskatchewan impose a provincial tax in addition to a few municipalities levying a municipal tax on domestic consumers.

TABLE 5 - (Pages 22-23) - EXPENSES

This table includes only the four expense items, (1) salaries and wages, (2) fuel, (3) taxes and (4) cost of purchased power. The last is an intra-industry expense and might be omitted from the expenses of the industry as a whole. It shows, however, the extent of purchases of power by the different groups of stations. The cost of power item includes the cost to municipalities receiving their supply from provincial commissions as well as the interchange of power between generating stations and also between generating and non-generating. As explained above, the sales taxes on domestic bills have not been included in the taxes given in this table. In the 1946 annual report salaries and wages paid to central electric station employees for construction work were not included in table 5. A revised version of the table is given on page 58 to include this omission for 1946.

To supplement Table 5, the details of taxes reported by commercial and municipal stations are presented below. Only in the few cases where the station absorbed the sales taxes are such taxes included. Water rentals also are excluded. The Federal unemployment insurance tax did not apply generally to utility employees until September 1, 1943, and apparently some stations still did not include the employer payments as a Dominion tax in 1947. Similarly, all stations did not include under taxes, the federal and provincial taxes on gasoline used by their vehicles, etc. It is common practice to treat sales tax as part of the cost of the commodity. The Dominion tax included income and excess profits tax, tax on exports of electricity, and the two mentioned above. The greater part of the municipal tax paid by municipal stations, was tax payments continued by the Ontario Hydro-Electric Commission on plants acquired from commercial stations, and in Quebec export taxes and other taxes paid by the Quebec Hydro-Electric Commission principally to the City of Montreal. In addition, the Quebec Commission contributed \$2,800,000 to the provincial Education Fund, which item was not reported as a tax until 1947. Total taxes reported by the industry during 1947, including contribution of Quebec Hydro, were \$26,218,545.

REPORTED TAXES, 1947

| Province | Commercial Stations | | | | Municipal Stations | | | |
|-----------------------|---------------------|------------|------------|------------|--------------------|------------|----------|-----------|
| | Municipal | Provincial | Dominion | Total | Municipal | Provincial | Dominion | Total |
| P. E. Island | 20,687 | 2,707 | 1,824 | 25,218 | - | - | - | - |
| Nova Scotia | 438,260 | 74,795 | 468,473 | 981,528 | 65,515 | 1,555 | 11,249 | 78,317 |
| New Brunswick | 68,965 | 28,384 | 84,801 | 182,150 | 171 | 95 | 55,094 | 55,358 |
| Quebec | 2,568,300 | 3,280,211 | 7,435,289 | 15,063,800 | 745,528 | 3,539,865 | 192,250 | 4,477,843 |
| Ontario | 478,291 | 241,267 | 1,149,043 | 1,868,601 | 634,940 | 97,590 | 349,466 | 1,081,996 |
| Manitoba | 145,248 | 4,251 | 6,977 | 156,476 | 120,825 | - | 9,843 | 130,668 |
| Saskatchewan | 32,515 | 529 | 85,590 | 118,034 | 74,595 | - | - | 74,595 |
| Alberta | 55,092 | 103,558 | 637,532 | 796,182 | 253,084 | - | 1,963 | 255,047 |
| British Columbia ...) | 434,912 | 233,839 | 2,161,724 | 2,830,475 | 42,455 | - | - | 42,455 |
| Total | 4,042,070 | 3,949,341 | 12,031,053 | 20,022,464 | 1,937,111 | 3,639,123 | 619,845 | 6,196,079 |
| Total-Commercial Stns | 4,042,070 | 3,949,341 | 12,031,053 | 20,022,464 | | | | |
| " Municipal " | 1,937,111 | 3,639,123 | 619,845 | 6,196,079 | | | | |
| Total | 5,979,181 | 7,588,464 | 12,650,898 | 26,218,545 | | | | |

TABLE 6 (Pages 24-25) - EMPLOYEES

There was an increase of 2,127 employees during the year with all provinces, excepting New Brunswick and Alberta, reporting heavier employment. The total at 26,704 included 10,570 in commercial and 16,134 employees in municipal stations. Some 20,441 were engaged in generating stations and 6,263 in non-generating or distributive organizations. Employment totals are based on the average number of employees per month.

On a provincial basis, 41 p.c. of the national total were employed in Ontario, 27 p.c. in Quebec, 9 p.c. in British Columbia, 14 p.c. on the Prairies and 9 p.c. in the Maritimes. Some 8,526 employees were on salaries while 18,178 were on wages. Among the generating stations, hydraulic operations required 18,016 employees, while fuel stations producing but 2.4 p.c. of the electric energy generated during 1947 employed 2,425.

TABLE 7 (Pages 26-27) - CUSTOMERS

As outlined under Table 4, stations report a segregation of customers into seven classes, but in the past many stations included farm customers with domestic customers, and in the Bureau's reports all customers in these two classes consequently were combined under "Domestic Customers". Below is a table giving the farm customers as reported, together with the respective consumptions and revenues received from them. Such revenues do not include taxes paid by the consumer, as previously explained. Due to the increasing activity in rural electrification, it is probable that current data are more comprehensive than previously reported. Installations were extended to 21,246 new farm customers during 1947, and the total at 169,518 was up 14.3 p.c. over 1946 compared with an increase of 6.2 p.c. or 120,458 in residential urban service. The two services are combined under "Domestic" in tables 2, 4, 7 and 12 as in previous years for comparative purposes. The relatively large number of farm customers and low average revenue per kilowatt hour in Ontario reflects the assistance given by the Ontario Government to this class of service. Farm customers in Ontario include only farms, whereas in years previous to 1945 rural customers in hamlets were also included. With over 725,000 rural farms in Canada, the total of 169,518 farm customers indicates that about 23.4 p.c. enjoyed the benefits of power line service at the end of 1947 compared with nearly two-thirds of the farms in the United States.

FARM SERVICE, 1947

| Province | Number of Customers | Kilowatt Hours | Revenue | Kw. Hrs. per Customer | Average ⁽¹⁾ Annual Bill | Revenue ⁽¹⁾ per Kw. Hr. | P.C. of Dominion Farm Service Consumption |
|----------------------|---------------------|----------------|-----------|-----------------------|------------------------------------|------------------------------------|---|
| | | | \$ | | \$ | # | \$ |
| Prince Edward Island | 2,822 | 2,204,692 | 138,853 | 781 | 49.20 | 6.3 | 0.77 |
| Nova Scotia | 11,454 | 7,406,572 | 300,668 | 647 | 26.25 | 4.1 | 2.59 |
| New Brunswick | 7,949 | 4,452,800 | 243,897 | 560 | 30.68 | 5.5 | 1.56 |
| Quebec | 54,245 | 38,246,855 | 1,558,379 | 705 | 24.67 | 3.5 | 13.39 |
| Ontario | 81,670 | 212,496,914 | 3,622,389 | 2,602 | 44.35 | 1.7 | 74.56 |
| Manitoba | 3,496 | 5,866,434 | 210,121 | 1,678 | 60.10 | 3.6 | 2.05 |
| Saskatchewan | 739 | 665,037 | 52,151 | 900 | 70.57 | 7.8 | 0.25 |
| Alberta | 2,275 | 3,844,386 | 214,435 | 1,690 | 94.26 | 5.6 | 1.35 |
| British Columbia | 4,868 | 10,569,439 | 275,783 | 2,171 | 56.65 | 2.6 | 3.70 |
| Canada | 169,518 | 285,753,107 | 6,596,656 | 1,686 | 37.73 | 2.2 | 100.00 |

(1) Federal, Provincial and Municipal taxes on the electricity purchased are not included.

TABLE 8 - POLE LINE MILEAGE - (Pages 28-29)

Transmission and distribution lines are combined in this table and a division has been made showing the mileage of steel towers and poles, wooden poles, concrete poles, and submarine and underground cables. The last includes systems in cities and lines laid in trenches along the roadside serving rural customers. The steel towers and steel poles are used almost exclusively for high voltage transmission lines and only Quebec, Ontario and Manitoba have extensive mileage.

TABLES 9 - 10 - 11 - EQUIPMENT - (Pages 28-35)

The equipment of the power houses has been divided into two classes, main plant and auxiliary, or standby equipment. The auxiliary plant equipment includes all steam engines and turbines and internal combustion engines and dynamos driven by them in hydro-electric stations and all the equipment in non-generating stations. All other equipment is classed as main plant equipment and includes water wheels and turbines and generators driven by them in hydro-electric stations and all equipment in plants using thermal equipment only. It is quite possible that some of the fuel stations have equipment held as standby equipment for use only in emergencies or for occasional peaks and also that some hydraulic stations have hydraulic equipment similarly held, but it is all classified as main plant equipment. Although a few of the hydro-electric stations use their steam equipment during periods of low water and during periods of heavy demand, the greater part of it is held strictly in reserve for emergencies, only 115,754,000 kilowatt hours being generated during the year by this auxiliary equipment. As mentioned on page 1, equipment which is not used primarily for the central electric station industry has been omitted from the current compilation.

TABLE 12 - ELECTRIC ENERGY GENERATED (Pages 34-35)

The electric energy generated is the output at the power plants less power used for the operation of the plants, and consequently includes all transformer and line losses entailed in delivering power to the consumers. The Kv.A. capacities shown were the rated dynamo capacities at the close of the year of both main and auxiliary plants of generating stations. The ratios indicate the relative position of the supply to the demand on a kilowatt

hour basis. This ratio is affected by other factors; one is the relationship of installed capacity to water available for hydraulic plants. This changes from month to month and from year to year and another factor is the production and sale of secondary power. A market for secondary power makes possible a greater production of kilowatt hours per unit of capacity than a market of firm power for the same installation. A few stations have found a market for their off-peak and surplus power by selling it for use in electric boilers and this class of sale grew quite rapidly, especially up to 1937. After the outbreak of the war the supply of surplus power was greatly reduced and with war industries working twenty four hours per day, the supply of off-peak power was also considerably curtailed so that sales of secondary power showed a steady decrease up to the middle of 1943. However, they then began to increase and continued the upward trend throughout 1944, 1945 and 1946. Subsequent to August, 1946, declining amounts of secondary power were available and production, as reported monthly, dropped from 9,141,804,000 in 1946 to 6,233,861,000 kilowatt hours in 1947, and to a low of 2,610,308,000 in 1948.

TABLE 13 - FUEL (Pages 36-37)

Fuel used was principally domestic or local coal, oil and manufactured gas with stations in Nova Scotia and Saskatchewan the largest users. The value of Canadian bituminous and sub-bituminous coal was 50 p.c. of the total; lignite coal accounted for 8 per cent, fuel oil and diesel oil for 34 p.c., and gasoline, gas, etc., accounted for the remainder. Fuel consumed was valued at \$6,684,405 compared with \$5,585,206 in 1946. Coal cost an average of \$4.87 per ton as against \$4.34 one year earlier, while fuel and diesel oil was up from 6.8 cents to 7.74 cents a gallon.

DOMESTIC SERVICE

In the following table data on domestic customers are brought together and analysed. As might be expected the provinces with relatively high percentages of rural populations, Prince Edward Island, Saskatchewan and Alberta, show the lowest number of customers per 100 population. The average cost per kilowatt hour is greatly affected by the nature of the use. Manitoba's low unit cost and high average consumption are influenced by flat rate water heaters and extensive use for cooking in Winnipeg; these induce high consumption per customer. There was also a large number of flat rate water heaters in Ontario. Further, where hydro-electric power is plentiful the rates are generally low and the average consumption high. The very low percentage of total power used by domestic customers in Quebec is affected by large exports to Ontario and heavy

consumption by pulp and paper, aluminium and other electric metallurgical plants.

Domestic customers in Ontario consumed 57.8 per cent of the total power used by all domestic customers in Canada, whereas the population of this province was less than a third of the total for the Dominion.

The average bills do not include federal, provincial and municipal sales taxes paid by the consumers.

(1) DOMESTIC SERVICE

1947

| Province | Number of Customers | | Average Bill for Year | Average per Kilowatt Hour | Average Annual Consumption | | Consumption by Domestic Service | |
|-----------------------|---------------------|--------------------|-----------------------|---------------------------|----------------------------|------------|--------------------------------------|---|
| | Total | Per 100 Population | | | Per Customer | Per Capita | P.C. of total Provincial Consumption | P.C. of Dominion Dom. Service Consumption |
| P. E. Island | 7,372 | 7.84 | \$ 50.16 | 5.35 | 938 | 74 | 53.94 | 0.2 |
| Nova Scotia | 96,231 | 15.50 | \$ 30.38 | 3.11 | 978 | 152 | 15.25 | 2.1 |
| New Brunswick | 74,854 | 15.25 | \$ 33.19 | 3.90 | 851 | 130 | 11.57 | 1.5 |
| Quebec | 631,597 | 17.02 | \$ 24.00 | 2.19 | 1,096 | 187 | 5.42 | 15.8 |
| Ontario | 918,770 | 21.95 | \$ 31.61 | 1.15 | 2,758 | 605 | 17.05 | 57.8 |
| Manitoba | 116,570 | 15.69 | \$ 46.45 | 1.08 | 4,304 | 675 | 24.84 | 11.5 |
| Saskatchewan | 73,625 | 8.74 | \$ 44.12 | 4.27 | 1,054 | 90 | 10.06 | 1.7 |
| Alberta | 100,134 | 12.18 | \$ 34.68 | 3.95 | 882 | 108 | 13.66 | 2.0 |
| B.C. & Yukon & N.W.T. | 227,100 | 21.26 | \$ 55.85 | 2.50 | 1,457 | 305 | 19.38 | 7.4 |
| Canada | 2,246,253 | 17.85 | \$ 31.28 | 1.60 | 1,951 | 348 | 10.58 | 100.0 |

(1) Includes Farm Customers.

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TABLE I - COMPARATIVE SUMMARY, 1938-1947

| PRINCIPAL DATA BY CLASS OF STATION | 1947 | 1946 | 1945 | 1944 | 1943 |
|---|-------------|-------------|---|---------------|---------------|
| <u>ELECTRIC POWER PLANTS</u> | | | | | |
| Total | 607 | 600 | 600 | 626 | 622 |
| Hydraulic | 510 | 505 | 502 | 520 | 522 |
| Fuel | 297 | 295 | 298 | 506 | 500 |
| Commercial | 377 | 397 | 392 | 424 | 425 |
| Municipal | 230 | 205 | 208 | 202 | 197 |
| <u>CAPITAL</u> | | | Data not collected in 1944, 1945, 1946 and 1947 | | |
| Total | | | | 1,776,224,640 | |
| Commercial | | | | 1,149,225,710 | |
| Municipal | | | | 628,998,980 | |
| Generating | | | | 1,584,824,501 | |
| Non-generating | | | | 195,800,159 | |
| <u>REVENUE (1)</u> | | | | | |
| Total | 258,929,627 | 226,096,275 | 215,105,473 | 215,246,391 | 204,801,506 |
| Commercial | 109,863,208 | 106,668,772 | 101,672,511 | 104,986,232 | 124,750,995 |
| Municipal | 129,066,419 | 117,427,501 | 113,452,962 | 110,280,159 | 80,070,515 |
| Generating | 209,127,860 | 192,214,412 | 183,227,685 | 185,574,224 | 175,217,757 |
| Non-generating | 29,801,767 | 33,881,861 | 51,877,788 | 29,672,167 | 29,585,751 |
| <u>EXPENSES (2)</u> | | | (5) | | |
| Total | 182,156,045 | 156,708,176 | 135,104,091 | 151,289,947 | 155,555,469 |
| Commercial | 72,056,052 | 67,664,274 | 60,893,580 | 60,470,374 | 72,579,621 |
| Municipal | 110,079,993 | 89,045,902 | 74,210,511 | 70,819,573 | 62,975,848 |
| Generating | 127,491,214 | 100,708,844 | 85,536,610 | 79,913,496 | 81,500,674 |
| Non-generating | 54,644,851 | 55,999,532 | 51,767,481 | 51,576,451 | 54,054,725 |
| <u>POLE LINE MILEAGE</u> | | | | | |
| Total | 98,530 | 89,231 | 85,178 | 60,075 | 78,065 |
| Commercial | 35,891 | 33,184 | 31,117 | 30,877 | 32,085 |
| Municipal | 62,639 | 56,047 | 52,061 | 49,196 | 45,978 |
| Generating | 79,761 | 71,936 | 66,694 | 65,665 | 61,710 |
| Non-generating | 18,768 | 17,295 | 16,484 | 16,408 | 16,358 |
| <u>CUSTOMERS</u> | | | | | |
| Total | 2,643,527 | 2,476,850 | 2,333,250 | 2,258,025 | (4) 2,164,861 |
| Domestic service (3) | 2,246,255 | 2,104,549 | 1,987,360 | 1,906,452 | (4) 1,848,080 |
| Commercial light | 526,988 | 506,592 | 285,402 | 273,451 | 259,840 |
| Power (small) | 53,604 | 50,254 | 46,955 | 45,284 | 44,348 |
| Power (large) | 12,825 | 11,846 | 10,955 | 10,376 | 9,772 |
| Power (municipal) | 838 | 887 | - | - | - |
| Street lighting | 2,819 | 2,702 | 2,558 | 2,460 | 2,421 |
| Commercial stations | 870,408 | 826,091 | 766,554 | 755,239 | (4) 1,005,516 |
| Municipal stations | 1,772,919 | 1,650,739 | 1,566,676 | 1,484,784 | 1,159,545 |
| Generating stations | 1,816,520 | 1,554,783 | 1,256,095 | 1,195,778 | 1,129,272 |
| Non-generating stations | 1,028,807 | 1,122,067 | 1,077,155 | 1,042,245 | (4) 1,055,589 |
| <u>ELECTRIC ENERGY GENERATED</u> | | | | | |
| Total Kilowatt hours (thousands) | 45,424,799 | 41,736,987 | 40,130,054 | 40,598,779 | 40,479,595 |
| Commercial | 27,665,524 | 26,997,716 | 25,550,857 | 25,688,580 | 31,082,239 |
| Municipal | 15,759,275 | 14,759,271 | 14,599,197 | 14,910,199 | 9,397,554 |
| Exports to the United States (Thousands) ... Kw.h. | 2,066,487 | 2,481,651 | 2,646,435 | 2,585,511 | 2,545,056 |
| Imports from the United States .. (Thousands) ... Kw.h. | 53,057 | 9,527 | 15,916 | 14,097 | 509 |
| <u>EQUIPMENT IN GENERATING STATIONS (Main Plant only)</u> | | | | | |
| Total Primary Power | H.P. | 9,601,157 | 9,825,459 | 9,666,947 | 9,715,791 |
| Total in commercial stations | H.P. | 5,936,125 | 6,501,996 | 6,294,121 | 6,573,525 |
| Total in municipal stations | H.P. | 5,665,032 | 5,525,463 | 3,572,826 | 3,540,268 |
| Total Secondary Power | Kv.A. | 7,984,488 | 8,182,888 | 8,058,767 | 8,075,884 |
| Total in commercial stations | Kv.A. | 4,950,862 | 5,233,480 | 5,227,057 | 5,290,874 |
| Total in municipal stations | Kv.A. | 5,055,626 | 2,929,416 | 2,808,750 | 2,782,990 |
| <u>AUXILIARY PLANT EQUIPMENT</u> | | | | | |
| Primary power | H.P. | 184,950 | 176,255 | 175,512 | 185,117 |
| Secondary power | Kv.A. | 154,199 | 149,462 | 146,556 | 157,866 |
| | | | | | |

(1) Cost of power interchanged between stations excluded from revenue of purchasing stations (see page 7).

(2) Includes wages, cost of power, fuel and taxes, but not other expenses.

(3) Farm service is included with domestic service.

(4) Revised in 1944 report.

(5) Revised.

TABLEAU 1 - SOMMAIRE COMPARATIF, 1958 - 1947

| 1942 | 1941 | 1940 | 1939 | 1938 | DONNEES PRINCIPALES PAR CLASSES D'USINES |
|---|---|---|---|---|--|
| 616 320 296 426 188 | 607 515 294 424 183 | 602 515 289 421 181 | 611 515 298 427 184 | 589 515 276 406 183 | <u>USINES ELECTRIQUES</u> <u>Total</u> Hydrauliques A combustible Commerciales Municipales |
| 1,747,891,798 1,127,978,582 619,915,466 1,558,495,588 186,596,410 | 1,641,460,451 1,054,714,026 686,746,426 1,459,900,540 181,559,911 | 1,615,458,140 1,049,506,904 565,951,256 1,440,026,870 175,411,270 | 1,564,603,211 1,014,704,685 549,898,546 1,396,858,921 187,764,290 | 1,545,416,592 1,002,891,485 542,525,107 1,377,120,289 168,296,503 | <u>CAPITAL</u> <u>Total</u> Commerciales Municipales Génératrices Non-génératrices |
| 205,885,565 124,611,715 79,225,652 175,916,640 29,918,725 | 186,018,040 111,851,778 74,166,262 157,283,409 28,734,651 | 166,228,773 99,887,052 66,341,721 159,875,592 26,555,581 | 151,880,969 92,555,049 59,545,920 127,485,222 24,397,747 | 144,351,627 87,697,078 56,634,549 120,784,939 25,546,688 | <u>RECETTES (1)</u> <u>Total</u> Commerciales Municipales Génératrices Non-génératrices |
| 152,581,418 71,155,582 61,448,056 80,171,586 52,409,852 | 117,758,977 60,561,621 57,197,556 69,148,515 46,610,464 | 105,044,156 51,990,180 55,055,998 60,752,761 44,291,597 | 91,982,572 42,471,554 49,510,638 51,570,157 40,412,255 | 87,564,540 41,067,988 46,296,542 48,946,422 58,417,918 | <u>DEPENSES (2)</u> <u>Total</u> Commerciales Municipales Génératrices Non-génératrices |
| 77,909 51,847 46,062 61,927 15,982 | 77,255 51,442 45,811 61,495 15,758 | 75,050 50,955 44,117 59,676 15,374 | 72,152 50,288 41,844 57,084 15,048 | 66,977 29,555 57,622 52,375 14,604 | <u>LIGNES SUR POTEAUX</u> <u>Total</u> Commerciales Municipales Génératrices Non-génératrices |
| 2,125,304 1,805,708 264,706 44,815 9,675 2,404 | 2,081,270 1,755,917 268,977 44,071 9,954 2,371 | 2,006,508 1,686,388 265,175 45,158 9,490 2,317 | 1,941,663 1,623,672 262,590 45,896 9,267 2,258 | 1,875,621 1,559,594 259,895 41,939 10,152 2,163 | <u>ABONNES</u> <u>Total</u> Service domestique (5) Eclairage commercial Force motrice (petite) Force motrice (grosse) Energie (municipale) Eclairage des rues |
| 985,059 1,140,245 1,103,589 1,021,765 | 954,906 1,126,564 1,079,255 1,002,057 | 966,095 1,088,415 1,032,455 982,075 | 889,416 1,052,245 998,067 943,598 | 859,506 1,014,115 954,797 918,824 | Usines commerciales Usines municipales Usines génératrices Usines non-génératrices |
| 57,555,179 29,177,587 21,777,792 | 53,517,665 24,795,715 8,525,948 | 50,109,285 22,287,270 7,822,015 | 28,558,050 21,290,930 7,047,100 | 26,154,160 18,488,523 6,865,857 | <u>ENERGIE ELECTRIQUE GENEREE</u> Total Kw. heures générées (milliers) Commerciale Municipale |
| 2,455,759 594 | 2,354,229 670 | 2,132,129 655 | 1,908,756 666 | 1,822,105 624 | Exportations d'électricité aux Etats-Unis (milliers) Kw.h. Importations d'électricité des Etats-Unis (milliers) Kw.h. |
| | | | | | <u>MACHINERIE DANS LES USINES GENERATRICES</u> (Usines principales seulement) Total force motrice primaire H. P. Total dans les usines commerciales ... H. P. Total dans les usines municipales ... H. P. Total force motrice secondaire Kv.A. Total dans les usines commerciales ... Kv.A. Total dans les usines municipales ... Kv.A. |
| 6,615,896 6,269,586 2,544,510 | 6,157,585 5,917,160 2,240,425 | 7,935,867 5,708,664 2,227,205 | 7,607,122 5,585,632 2,221,490 | 7,476,976 5,500,185 2,176,793 | |
| 7,256,927 5,566,789 1,890,158 | 6,851,785 5,054,727 1,797,058 | 6,691,211 4,906,268 1,784,945 | 6,435,416 4,654,745 1,780,671 | 6,327,868 4,586,275 1,741,595 | |
| 194,968 166,256 | 194,651 166,021 | 194,914 166,587 | 194,159 165,785 | 195,628 166,860 | <u>OUTILLAGE D'USINES AUXILIAIRES</u> Force motrice primaire H. P. Force motrice secondaire Kv.A. |

(1) Le coût de l'énergie échangée entre stations est exclu du revenu des stations en faisant l'achat (Voir p. 7).

(2) Incluent gages, coût de l'énergie, combustible et taxes, mais non les autres dépenses.

(3) L'éclairage des fermes est inclus dans l'éclairage domestique.

(4) Révisé en 1944. (5) Révisé.

TABLE 2 - DOMESTIC SERVICE, 1938 - 1947

| Year Année | Number of Customers Nombre d'usagers | Kilowatt Hours Consumed Kilowatt heures consommées | Revenue Recettes | Kw. Hours per Customer Consommation moyenne annuelle par usager | Average Annual Bill Compte moyen de l'année | Revenue per Kilowatt Hour Moyenne par kilowatt heure |
|---------------------------------|--|---|---------------------|---|--|--|
| | (000) | \$ | kW. hrs. | \$ | € | |
| CANADA | 1,559,394 | 2,172,500 | 41,302,107 | 1,393 | 26.49 | 1.90 |
| 1939 | 1,623,672 | 2,310,891 | 43,795,482 | 1,423 | 26.97 | 1.90 |
| 1940 | 1,686,388 | 2,436,572 | 46,444,357 | 1,445 | 27.54 | 1.91 |
| 1941 | 1,755,917 | 2,582,405 | 48,683,162 | 1,471 | 27.73 | 1.89 |
| 1942 | 1,803,708 | 2,716,895 | 50,706,757 | 1,506 | 28.11 | 1.87 |
| 1943 | 1,852,367 | 2,843,612 | 51,307,781 | 1,535 | 27.70 | 1.80 |
| 1944 | 1,906,452 | 3,046,980 | 53,511,553 | 1,568 | 27.96 | 1.75 |
| 1945 | 1,987,360 | 3,365,497 | 55,735,696 | 1,605 | 28.05 | 1.66 |
| 1946 | 2,104,549 | 5,881,677 | 62,820,120 | 1,844 | 29.85 | 1.62 |
| 1947 | 2,246,253 | 4,383,222 | 70,258,591 | 1,951 | 31.28 | 1.60 |
| Change (Changement) 1938 - 1947 | | | | | | |
| Amount (Volume) | 886,859 | 2,210,722 | 28,956,484 | 558 | 4.79 | |
| Per cent (p.c.) | 44.05 | 101.76 | 70.11 | 40.06 | 18.08 | - .30 |
| PRINCE EDWARD ISLAND | 4,799 | 2,579 | 150,994 | 537 | 31.46 | 5.85 |
| 1939 | 5,067 | 2,908 | 163,226 | 574 | 32.21 | 5.61 |
| 1940 | 5,227 | 3,076 | 172,643 | 588 | 33.03 | 5.61 |
| 1941 | 5,551 | 3,483 | 185,090 | 630 | 35.10 | 5.26 |
| 1942 | 5,606 | 3,580 | 196,446 | 639 | 35.04 | 5.49 |
| 1943 | 5,715 | 3,895 | 217,914 | 682 | 36.13 | 5.59 |
| 1944 | 6,103 | 4,579 | 230,596 | 750 | 37.78 | 5.04 |
| 1945 | 6,387 | 5,217 | 258,558 | 817 | 37.55 | 4.57 |
| 1946 | 6,882 | 6,017 | 274,082 | 874 | 39.83 | 4.56 |
| 1947 | 7,372 | 6,917 | 369,805 | 938 | 50.16 | 5.55 |
| Change (Changement) 1938 - 1947 | | | | | | |
| Amount (Volume) | 2,573 | 4,538 | 218,811 | 401 | 18.70 | - 0.50 |
| Per cent (p.c.) | 53.62 | 168.20 | 144.91 | 74.67 | 59.44 | - 8.55 |
| NOVA SCOTIA | 58,556 | 35,507 | 1,595,086 | 603 | 27.24 | 4.52 |
| 1939 | 62,054 | 39,084 | 1,709,507 | 630 | 27.56 | 4.57 |
| 1940 | 65,790 | 43,277 | 1,877,812 | 658 | 28.54 | 4.54 |
| 1941 | 69,997 | 48,357 | 2,065,057 | 691 | 29.50 | 4.27 |
| 1942 | 72,592 | 50,877 | 2,166,648 | 715 | 29.85 | 4.18 |
| 1943 | 75,957 | 57,324 | 2,156,552 | 755 | 28.40 | 3.76 |
| 1944 | 79,904 | 63,516 | 2,439,703 | 795 | 30.53 | 3.84 |
| 1945 | 84,011 | 70,099 | 2,286,358 | 834 | 27.21 | 3.26 |
| 1946 | 89,484 | 82,696 | 2,660,287 | 924 | 29.75 | 3.22 |
| 1947 | 96,251 | 94,155 | 2,925,651 | 978 | 30.58 | 5.11 |
| Change (Changement) 1938 - 1947 | | | | | | |
| Amount (Volume) | 37,675 | 58,828 | 1,328,545 | 575 | 5.14 | - 1.41 |
| Per cent (p.c.) | 64.34 | 166.62 | 85.29 | 62.19 | 11.55 | - 51.19 |
| NEW BRUNSWICK | 43,556 | 25,367 | 1,232,937 | 582 | 26.51 | 4.86 |
| 1939 | 46,485 | 26,989 | 1,307,772 | 581 | 26.13 | 4.85 |
| 1940 | 50,681 | 29,398 | 1,415,237 | 580 | 27.88 | 4.01 |
| 1941 | 52,831 | 31,254 | 1,435,015 | 591 | 27.16 | 4.59 |
| 1942 | 54,529 | 34,696 | 1,563,554 | 636 | 26.67 | 4.51 |
| 1943 | 56,239 | 35,294 | 1,661,550 | 628 | 29.54 | 4.71 |
| 1944 | 58,860 | 39,441 | 1,767,380 | 670 | 30.03 | 4.48 |
| 1945 | 62,175 | 45,958 | 1,883,574 | 759 | 30.29 | 4.10 |
| 1946 | 67,479 | 51,377 | 2,076,400 | 761 | 30.77 | 4.04 |
| 1947 | 74,854 | 63,726 | 2,484,545 | 851 | 35.19 | 5.90 |
| Change (Changement) 1938 - 1947 | | | | | | |
| Amount (Volume) | 51,298 | 58,361 | 1,251,608 | 269 | 4.88 | - 0.96 |
| Per cent (p.c.) | 71.86 | 151.22 | 101.51 | 46.22 | 17.24 | - 19.75 |
| QUEBEC | 421,178 | 287,107 | 8,669,054 | 682 | 20.58 | 3.02 |
| 1939 | 434,825 | 311,420 | 9,167,384 | 716 | 21.08 | 2.94 |
| 1940 | 451,791 | 324,032 | 9,654,398 | 717 | 21.32 | 2.97 |
| 1941 | 473,547 | 342,627 | 10,100,300 | 724 | 21.35 | 2.95 |
| 1942 | 488,014 | 368,173 | 10,785,887 | 754 | 22.10 | 2.95 |
| 1943 | 507,765 | 398,305 | 10,791,660 | 784 | 21.25 | 2.71 |
| 1944 | 530,396 | 446,142 | 11,304,901 | 841 | 21.51 | 2.55 |
| 1945 | 558,865 | 507,274 | 11,925,494 | 908 | 21.34 | 2.55 |
| 1946 | 590,125 | 596,695 | 13,401,463 | 1,011 | 22.71 | 2.25 |
| 1947 | 631,597 | 692,355 | 15,156,347 | 1,096 | 24.00 | 2.19 |
| Change (Changement) 1938 - 1947 | | | | | | |
| Amount (Volume) | 210,419 | 405,228 | 6,487,313 | 414 | 5.42 | - 0.85 |
| Per cent (p.c.) | 49.96 | 141.14 | 74.85 | 60.70 | 16.62 | - 27.48 |

TABLEAU 2 - SERVICE DOMESTIQUE, 1938 - 1947

| Year Année | Number of Customers Nombre d'usagers | Kilowatt Hours Consumed Kilowatt heures consommés | Revenue Recettes | Kw. Hours per Customer Consommation moyenne annuelle par usager | Average Annual Bill Compte moyen de l'année | Revenue per Kilowatt Hour Moyenne par kilowatt heure |
|---------------------------------|--|--|---------------------|---|--|--|
| | | | | kw. hrs. | \$ | € |
| ONTARIO | 1938 | 691,498 | (000) | | | |
| | 1939 | 719,871 | 1,285,568 | 18,456,575 | 1,859 | 26.69 |
| | 1940 | 745,596 | 1,574,525 | 19,657,658 | 1,909 | 27.51 |
| | 1941 | 772,155 | 1,459,235 | 20,928,097 | 1,958 | 28.08 |
| | 1942 | 787,721 | 1,546,189 | 21,980,031 | 2,002 | 28.47 |
| | 1943 | 801,430 | 1,623,780 | 22,807,897 | 2,061 | 28.95 |
| | 1944 | 813,556 | 1,682,562 | 23,000,644 | 2,099 | 28.70 |
| | 1945 | 839,968 | 1,787,559 | 23,239,991 | 2,198 | 28.57 |
| | 1946 | 876,761 | 1,963,043 | 23,899,446 | 2,337 | 28.21 |
| | 1947 | 918,770 | 2,269,006 | 26,514,259 | 2,587 | 30.01 |
| | | | | 29,046,165 | 2,758 | 31.61 |
| Change (Changement) 1938 - 1947 | Amount (Volume) Par cent (p.c.) | 227,272 52.87 | 1,248,026 97.08 | 10,589,590 57.36 | 4.92 48.56 | - 0.29 - 20.14 |
| MANITOBA | 1938 | 77,762 | 511,795 | 3,223,605 | 4,010 | 41.45 |
| | 1939 | 81,091 | 320,827 | 3,511,662 | 3,956 | 40.84 |
| | 1940 | 85,404 | 330,269 | 3,423,312 | 3,960 | 41.04 |
| | 1941 | 85,106 | 343,041 | 3,472,277 | 4,051 | 40.80 |
| | 1942 | 87,615 | 355,928 | 3,570,492 | 4,062 | 40.75 |
| | 1943 | 88,528 | 374,169 | 3,712,351 | 4,226 | 41.93 |
| | 1944 | 92,073 | 389,865 | 3,871,419 | 4,234 | 42.05 |
| | 1945 | 94,673 | 416,499 | 4,237,484 | 4,399 | 44.76 |
| | 1946 | 103,204 | 457,446 | 4,680,853 | 4,435 | 45.56 |
| | 1947 | 116,570 | 501,744 | 5,414,994 | 4,304 | 46.45 |
| Change (Changement) 1938 - 1947 | Amount (Volume) Per cent (p.c.) | 38,808 49.91 | 183,951 60.92 | 2,191,489 67.98 | 294 7.33 | 5.00 12.06 |
| SASKATCHEWAN | 1938 | 48,060 | 59,077 | 1,903,751 | 813 | 39.61 |
| | 1939 | 49,980 | 41,198 | 2,004,453 | 824 | 40.10 |
| | 1940 | 51,425 | 43,406 | 2,093,205 | 844 | 40.70 |
| | 1941 | 52,695 | 45,448 | 2,175,255 | 862 | 41.24 |
| | 1942 | 54,132 | 46,856 | 2,173,896 | 866 | 40.16 |
| | 1943 | 55,500 | 48,996 | 2,257,885 | 883 | 40.68 |
| | 1944 | 58,089 | 52,724 | 2,397,702 | 908 | 41.28 |
| | 1945 | 61,285 | 58,402 | 2,565,796 | 953 | 41.87 |
| | 1946 | 67,336 | 68,530 | 2,940,165 | 1,018 | 43.66 |
| | 1947 | 73,625 | 76,152 | 3,248,282 | 1,034 | 44.12 |
| Change (Changement) 1938 - 1947 | Amount (Volume) Per cent (p.c.) | 25,565 53.19 | 37,075 94.88 | 1,344,551 70.65 | 221 27.18 | 4.51 11.39 |
| ALBERTA | 1938 | 65,050 | 58,089 | 1,983,226 | 604 | 51.46 |
| | 1939 | 68,267 | 42,210 | 2,145,095 | 618 | 51.22 |
| | 1940 | 69,397 | 45,110 | 2,275,091 | 650 | 52.78 |
| | 1941 | 72,422 | 47,572 | 2,393,189 | 657 | 53.05 |
| | 1942 | 74,814 | 49,089 | 2,393,073 | 656 | 51.99 |
| | 1943 | 77,810 | 52,100 | 2,514,031 | 670 | 52.51 |
| | 1944 | 81,652 | 56,977 | 2,698,155 | 698 | 53.04 |
| | 1945 | 87,005 | 63,962 | 2,932,410 | 755 | 53.70 |
| | 1946 | 92,461 | 75,756 | 3,165,751 | 819 | 54.25 |
| | 1947 | 100,134 | 86,366 | 3,472,789 | 882 | 54.68 |
| Change (Changement) 1938 - 1947 | Amount (Volume) Per cent (p.c.) | 57,104 58.87 | 50,277 132.00 | 1,489,563 75.11 | 278 46.05 | 3.22 10.24 |
| BRITISH COLUMBIA | 1938 | 150,955 | 147,615 | 4,086,919 | 978 | 27.07 |
| | 1939 | 156,052 | 151,930 | 4,326,747 | 974 | 27.73 |
| | 1940 | 163,277 | 158,781 | 4,626,562 | 972 | 28.34 |
| | 1941 | 171,635 | 174,454 | 4,880,948 | 1,016 | 28.44 |
| | 1942 | 178,685 | 182,914 | 5,049,084 | 1,024 | 28.26 |
| | 1943 | 179,136 | 190,967 | 4,994,894 | 1,066 | 27.88 |
| | 1944 | 186,019 | 206,377 | 5,361,506 | 1,109 | 28.82 |
| | 1945 | 192,991 | 235,043 | 5,966,796 | 1,218 | 30.92 |
| | 1946 | 210,817 | 274,138 | 7,305,880 | 1,300 | 34.66 |
| | 1947 | 227,100 | 326,251 | 8,142,035 | 1,437 | 35.85 |
| Change (Changement) 1938 - 1947 | Amount (Volume) Per cent (p.c.) | 76,145 50.44 | 178,638 121.02 | 4,055,114 99.22 | 459 46.93 | 8.78 32.43 |
| | | | | | | - 0.27 - 9.75 |

TABLE 3 - ELECTRIC POWER PLANTS, 1947

| | Canada | Prince Edward Island | Nova Scotia | New Brunswick |
|--|--------|----------------------------|----------------|------------------|
| Total number of generating stations | 607 | 9 | 45 | 14 |
| Per cent of total for Canada | 100.00 | 1.48 | 7.41 | 2.31 |
| <u>COMMERCIAL</u> | 377 | 8 | 18 | 7 |
| Hydraulic | 182 | 4 | 11 | 5 |
| Fuel | 195 | 4 | 7 | 2 |
| <u>MUNICIPAL</u> | 230 | 1 | 27 | 7 |
| Hydraulic | 128 | - | 21 | 3 |
| Fuel | 102 | 1 | 6 | 4 |
| With water wheels and turbines | 310 | 4 | 32 | 8 |
| With steam engines only | 17 | - | - | 1 |
| With steam turbines only | 32 | 1 | 6 | 1 |
| With gas or oil engines only | 243 | 4 | 5 | 3 |
| With both steam engines and turbines | 3 | - | 1 | 1 |
| With both steam and gas or oil engines | 2 | - | 1 | - |
| With alternating current dynamos only | 489 | 9 | 45 | 13 |
| With direct current dynamos only | 106 | - | - | 1 |
| With both alternating and direct current dynamos | 12 | - | - | - |
| <u>COMMERCIAL ORGANIZATIONS</u> | X 371 | 6 | 16 | 17 |
| Number generating power | 252 | 5 | 10 | 7 |
| Number buying power for redistribution | 119 | 1 | 6 | 10 |
| <u>MUNICIPALITIES</u> | X 467 | 1 | 21 | 10 |
| Number generating power | 73 | 1 | 7 | 2 |
| Number buying power for redistribution | 394 | - | 14 | 8 |
| <u>AUXILIARY PLANTS</u> | 56 | 1 | 5 | 6 |
| To hydraulic stations | 44 | 1 | 1 | 1 |
| To non-generating stations | 12 | - | 2 | 5 |

X - Organizations operating in two or more provinces are shown under provinces, but are included in total as only one organization.

/ - One hydraulic station, formerly with Manitoba, now shown in Saskatchewan.

TABLEAU 3 - USINES GENERATRICES, 1947

| Quebec | Ontario | Manitoba | Saskat-chewan | Alberta | British Columbia and Yukon | |
|--------|---------|----------|---------------|---------|----------------------------|--|
| 95 | 120 | 14 | 154 | 95 | 81 | <u>Nombre d'usines génératrices</u> |
| 15.65 | 19.77 | 2.51 | 22.08 | 15.65 | 13.34 | Pourcentage du total pour le Canada |
| 75 | 45 | 8 | 80 | 85 | 53 | <u>COMMERCIALES</u> |
| 71 | 42 | 3 | 1 | 13 | 32 | Hydrauliques |
| 2 | 5 | 5 | 79 | 72 | 21 | A combustible |
| 22 | 75 | 6 | 54 | 10 | 28 | <u>MUNICIPALES</u> |
| 20 | 68 | 5 | - | - | 13 | Hydrauliques |
| 2 | 7 | 5 | 54 | 10 | 15 | A combustible |
| 91 | 110 | 6 | 1 | 15 | 45 | Avec roues et turbines hydrauliques |
| 1 | 5 | 1 | - | 7 | 4 | Avec machines à vapeur seulement |
| 1 | - | - | 6 | 10 | 7 | Avec turbines à vapeur seulement |
| 2 | 7 | 7 | 126 | 65 | 24 | Avec moteurs à gaz ou à pétrole seulement |
| - | - | - | 1 | - | - | Avec machines et turbines à vapeur à la fois |
| - | - | - | - | - | 1 | Avec machines à vapeur à gaz et à pétrole |
| 94 | 118 | 14 | 61 | 62 | 75 | Avec dynamos à courant alternatif seulement |
| 1 | 2 | - | 71 | 26 | 5 | Avec dynamos à courant direct seulement |
| - | - | - | 2 | 7 | 3 | Avec dynamos à courant alternatif et direct |
| 61 | 64 | 12 | 81 | 69 | 58 | <u>USINES COMMERCIALES</u> |
| 29 | 51 | 6 | 79 | 54 | 40 | Nombre d'usines génératrices |
| 32 | 33 | 6 | 2 | 15 | 18 | Nombre d'usines achetant de l'électricité pour la revendre |
| 56 | 350 | 8 | 30 | 16 | 19 | <u>MUNICIPALITES</u> |
| 15 | 12 | 4 | 22 | 9 | 7 | Nombre d'usines génératrices |
| 25 | 518 | 4 | 8 | 7 | 12 | Nombre d'usines achetant de l'électricité pour la revendre |
| 10 | 7 | 5 | - | 8 | 18 | <u>USINES AUXILIAIRES</u> |
| 9 | 6 | 1 | - | 8 | 17 | Aux usines hydrauliques |
| 1 | 1 | 2 | - | - | 1 | Aux usines non-génératrices |

I - Les compagnies exploitant des usines dans deux ou plusieurs provinces sont inscrites au chapitre des provinces, mais n'apparaissent qu'une fois dans le total.

† - Une station hydraulique préalablement mentionnée sous le titre Manitoba se trouve maintenant sous celui de Saskatchewan.

TABLE 4 - REVENUE, 1947 ^b

| | Canada | Prince Edward Island | Nova Scotia | New Brunswick | Quebec |
|---|-------------|----------------------------|----------------|------------------|-------------|
| | \$ | \$ | \$ | \$ | \$ |
| <u>REVENUE FROM SALE OF ELECTRIC ENERGY</u> | 258,929,627 | 651,554 | 8,972,494 | 46,268,278 | 495,904,672 |
| For domestic service | 70,258,591 | 569,805 | 2,925,631 | 2,484,545 | 15,156,547 |
| For commercial light | 40,789,520 | 141,466 | 1,700,858 | 1,154,193 | 10,800,629 |
| For power (small) | 12,014,540 | 41,997 | 1,049,757 | 486,163 | 2,806,539 |
| For power (large) | 106,656,652 | 28,762 | 5,019,006 | 1,966,794 | 65,006,496 |
| For power (municipal) | 5,863,020 | 52,950 | 62,290 | 29,962 | 879,794 |
| For street lighting | 5,367,504 | 16,394 | 216,972 | 186,621 | 1,254,367 |
| <u>REVENUE OF COMMERCIAL STATIONS</u> | 109,863,208 | 499,352 | 6,287,255 | 3,050,582 | 65,764,056 |
| Non-generating | 2,906,067 | 899 | 729,551 | 514,870 | 227,809 |
| Generating | 106,957,141 | 498,435 | 5,557,904 | 2,535,912 | 63,556,227 |
| Hydraulic | 98,157,704 | 25,396 | 1,266,695 | 1,721,455 | 63,489,254 |
| Fuel | 8,799,437 | 475,057 | 4,291,209 | 814,457 | 46,975 |
| <u>REVENUE OF MUNICIPAL STATIONS</u> | 129,066,419 | 152,022 | 2,685,259 | 5,217,696 | 50,140,656 |
| Non-generating | 26,895,700 | - | 355,916 | 691,188 | 859,958 |
| Generating | 102,170,719 | 152,022 | 2,351,325 | 2,526,508 | 29,280,678 |
| Hydraulic | 89,064,625 | - | 1,824,815 | 145,714 | 29,255,694 |
| Fuel | 15,106,094 | 152,022 | 506,510 | 2,380,794 | 24,984 |
| Revenue of non-generating stations | 29,801,767 | 899 | 1,085,267 | 1,205,858 | 1,087,767 |
| Revenue of generating stations | 209,127,880 | 650,455 | 7,889,227 | 5,062,420 | 92,815,905 |
| Revenue of hydraulic stations | 187,222,529 | 25,396 | 5,091,508 | 1,867,169 | 92,744,948 |
| Revenue of fuel stations | 21,905,551 | 627,059 | 4,797,719 | 5,195,251 | 71,957 |
| Average revenue per H.P. of primary power | 24.89 | 70.04 | 45.85 | 58.68 | 17.31 |
| Average revenue per H.P. in main and auxiliary plants | 24.42 | 69.04 | 45.40 | 57.54 | 17.17 |
| Average revenue per Kv.A. of dynamo capacity | 29.92 | 95.09 | 52.57 | 45.30 | 20.42 |
| Average revenue per Kv.A. in main and auxiliary plants ... | 29.56 | 92.46 | 52.07 | 44.10 | 20.25 |
| Average revenue per domestic service customer | 51.28 | 50.16 | 50.58 | 55.19 | 24.00 |
| Average revenue per commercial light customer | 124.74 | 98.79 | 122.61 | 158.76 | 124.08 |
| Average revenue per small power customer | 224.14 | 285.69 | 355.49 | 327.16 | 221.48 |
| Average revenue per large power customer | 8,314.75 | 5,752.40 | 12,792.40 | 15,025.15 | 55,266.57 |
| Average revenue per kilowatt hour consumed Cents | 0.58 | 5.20 | 1.45 | 1.12 | 0.46 |
| Average revenue per kilowatt hour - domestic and farm service .. Cents | 1.60 | 5.35 | 5.11 | 5.90 | 2.19 |
| Average revenue per kilowatt hour - commercial light " | 1.98 | 4.11 | 5.33 | 2.88 | 2.09 |

^a Affected by power purchased from other provinces.

^b Adjusted for power purchased from Quebec plants.

Gross revenue less cost of power interchanged between stations.

TABLEAU 4 - RECETTES, 1947.

| Ontario | Manitoba | Saskat- chewan | Alberta | British Columbia and Yukon | |
|--------------|--------------|-------------------|--------------|----------------------------------|--|
| \$ | \$ | \$ | \$ | \$ | |
| ✓ 94,740,546 | ✓ 12,826,085 | 9,321,582 | ✓ 10,672,911 | 17,099,356 | <u>RECETTES PROVENANT DE LA VENTE D'ELECTRICITE</u> |
| 29,046,165 | 5,414,994 | 3,248,282 | 3,472,789 | 8,142,053 | Pour éclairage domestique |
| 12,668,485 | 2,875,794 | 2,369,624 | 2,947,420 | 6,151,071 | Pour éclairage commercial |
| 5,514,849 | 625,554 | 1,062,757 | 1,181,142 | 1,227,822 | Pour force motrice (petite) |
| 44,931,300 | 5,450,918 | 2,107,999 | 2,577,636 | 1,075,192 | Pour force motrice (grosse) |
| 2,241,075 | 178,517 | 187,281 | 182,612 | 48,751 | Pour pouvoir municipal |
| 2,338,474 | 282,528 | 525,649 | 511,512 | 454,487 | Pour éclairage des rues |
| 11,909,611 | 6,067,461 | 1,850,297 | 5,555,382 | 13,902,248 | <u>RECETTES DES USINES COMMERCIALES</u> |
| 2,674,049 | 385,997 | 2,815 | 140,555 | 196,918 | Non-génératrices |
| 9,235,562 | 5,681,464 | 1,847,484 | 5,393,027 | 13,705,350 | Génératrices |
| 9,193,724 | 5,557,582 | 736,722 | 5,907,652 | 13,295,426 | Hydrauliques |
| 41,658 | 123,882 | 1,110,762 | 1,485,375 | 409,904 | A combustible |
| 62,850,735 | 6,758,624 | 7,471,285 | 5,159,529 | 5,197,108 | <u>RECETTES DES USINES MUNICIPALES</u> |
| 18,699,517 | 2,426,174 | 1,105,161 | 1,861,918 | 957,444 | Non-génératrices |
| 64,151,218 | 4,532,450 | 6,366,124 | 5,277,611 | 2,259,664 | Génératrices |
| 64,019,022 | 4,245,798 | - | - | 2,040,465 | Hydrauliques |
| 112,196 | 86,652 | 6,366,124 | 3,277,611 | 199,201 | A combustible |
| 21,375,566 | 2,812,171 | 1,107,974 | 2,002,275 | 1,154,582 | Recettes des usines non-génératrices |
| 75,368,780 | 10,015,914 | 8,215,808 | 8,670,658 | 15,944,994 | Recettes des usines génératrices |
| 75,212,746 | 9,803,580 | 736,722 | 5,907,652 | 15,555,689 | Recettes des usines hydrauliques |
| 154,034 | 210,554 | 7,476,886 | 4,762,986 | 609,105 | Recettes des usines à combustible |
| I 25.82 | 28.86 | 35.56 | 50.44 | 57.69 | Moyenne de recettes par H.P. de machinerie primaire |
| I 25.51 | 27.84 | 35.56 | 46.29 | 55.87 | Moyenne de recettes par H.P. de machinerie principale et auxiliaire |
| I 33.11 | 35.92 | 42.05 | 60.55 | 44.93 | Moyenne de recettes par Kv.A. de capacité de dynamos |
| I 32.69 | 34.19 | 42.05 | 55.14 | 40.82 | Moyenne de recettes par Kv.A. de capacité des dynamos, usines principales et auxiliaires |
| 51.61 | 46.45 | 44.12 | 34.68 | 35.85 | Moyenne de recettes par abonnés d'éclairage domestique |
| 108.95 | 128.22 | 122.56 | 151.41 | 171.16 | Moyenne de recettes par abonnés d'éclairage commercial |
| 226.75 | 189.15 | 317.24 | 165.01 | 215.26 | Moyenne de recettes par abonnés pour petite force motrice |
| 11,722.25 | 767.21 | 4,602.62 | 3,580.05 | 1,045.88 | Moyenne de recettes par abonnés pour grosse force motrice |
| 0.64 | 0.65 | 1.23 | 1.65 | 1.02 | Moyenne de recettes par Kw. heure (cents) |
| 1.15 | 1.08 | 4.27 | 3.93 | 2.50 | Moyenne de recettes par Kw. heure-service domestique |
| 1.51 | 1.92 | 4.55 | 3.82 | 5.02 | et de ferme (cents) |
| | | | | | Moyenne de recettes par Kw. heure - service commercial (cents) |

✓ Affecté par énergie achetée d'une autre province.

I Adjusté pour achats de courant des usines du Québec.

✓ Revenu brut moins le coût de l'énergie échangée entre stations.

TABLE 5 - EXPENSES, 1947

| | Canada | Prince Edward Island | Nova Scotia | New Brunswick | Quebec |
|---|----------------|----------------------------|----------------|------------------|------------|
| TOTAL EXPENSE | \$ 182,156,045 | 477,860 | 8,565,640 | 4,558,479 | 48,128,523 |
| Per cent of total for Canada | 100.00 | 0.26 | 4.70 | 2.50 | 26.45 |
| Salaries and wages | 67,417,517 | 194,913 | 2,734,026 | 1,676,622 | 15,158,979 |
| Fuel | 6,684,405 | 256,769 | 1,779,846 | 1,130,228 | 58,920 |
| Taxes (x) | 26,218,543 | 25,218 | 1,059,845 | 257,508 | 17,541,445 |
| Cost of power | 81,815,780 | 960 | 2,989,925 | 1,514,121 | 15,408,981 |
| TOTAL FOR COMMERCIAL STATIONS | 72,056,052 | 419,812 | 6,619,885 | 1,926,181 | 53,974,546 |
| Salaries and wages | 23,071,390 | 168,863 | 2,007,113 | 586,569 | 11,180,552 |
| Fuel | 3,549,009 | 224,771 | 1,648,600 | 555,868 | 25,411 |
| Taxes (x) | 20,022,464 | 25,218 | 981,528 | 182,150 | 15,065,800 |
| Cost of power | 25,415,189 | 960 | 1,982,644 | 841,594 | 9,704,783 |
| Non-generating stations | 5,679,475 | 1,050 | 1,051,523 | 1,057,885 | 259,555 |
| Generating stations | 66,376,577 | 418,762 | 5,588,562 | 868,296 | 53,734,993 |
| Hydraulic stations | 58,644,656 | 15,526 | 700,881 | 272,098 | 53,705,160 |
| Fuel stations | 7,751,921 | 403,236 | 4,887,481 | 596,198 | 29,833 |
| TOTAL FOR MUNICIPAL STATIONS | 110,079,993 | 58,048 | 1,945,755 | 2,632,298 | 14,155,777 |
| Salaries and wages | 44,345,927 | 26,050 | 726,913 | 1,110,055 | 3,958,427 |
| Fuel | 3,135,396 | 31,998 | 151,246 | 794,360 | 15,509 |
| Taxes (x) | 6,196,079 | - | 78,517 | 55,558 | 4,477,645 |
| Cost of power | 56,402,591 | - | 1,007,279 | 672,527 | 5,704,198 |
| Non-generating stations | 48,965,556 | - | 1,082,964 | 735,165 | 805,502 |
| Generating stations | 61,114,637 | 58,048 | 860,791 | 1,897,153 | 15,550,275 |
| Hydraulic stations | 54,855,361 | - | 495,085 | 127,597 | 15,538,398 |
| Fuel stations | 6,281,276 | 58,048 | 365,706 | 1,769,536 | 11,877 |
| TOTAL EXPENSES FOR NON-GENERATING STATIONS | 54,644,851 | 1,050 | 2,114,487 | 1,795,050 | 1,045,055 |
| Salaries and wages | 12,007,766 | 90 | 530,675 | 386,382 | 521,707 |
| Fuel | 10,140 | - | 108 | 7,371 | - |
| Taxes (x) | 882,772 | - | 151,291 | 56,119 | 8,240 |
| Cost of power | 41,744,153 | 980 | 1,432,413 | 1,343,178 | 715,108 |
| TOTAL EXPENSES FOR GENERATING STATIONS | 127,491,214 | 476,810 | 6,449,153 | 2,765,429 | 47,085,268 |
| Salaries and wages | 55,409,551 | 194,823 | 2,205,551 | 1,290,240 | 14,817,272 |
| Fuel | 6,674,265 | 256,769 | 1,779,758 | 1,122,857 | 58,920 |
| Taxes (x) | 25,355,771 | 25,218 | 908,554 | 181,389 | 17,553,203 |
| Cost of power | 40,071,627 | - | 1,557,510 | 170,945 | 14,695,675 |
| Hydraulic stations | 113,478,017 | 15,526 | 1,195,966 | 599,695 | 47,043,558 |
| Fuel stations | 14,013,197 | 461,284 | 5,255,187 | 2,365,754 | 41,710 |

(x) Sales tax not included (see page 8).

/ Includes only the four items listed.

TABLEAU 5 - *DEPENSES. 1947*

| Ontario | Manitoba | Saskatchewan | Alberta | British Columbia and Yukon | |
|------------|-----------|--------------|-----------|----------------------------|---|
| \$ | \$ | \$ | \$ | \$ | |
| 87,950,450 | 5,079,576 | 4,627,127 | 5,577,099 | 17,173,711 | <u>TOTAL DES DEPENSES</u> |
| 48,29 | 2,79 | 2,54 | 3,06 | 9,45 | Pourcentage du total pour le Canada |
| 34,077,059 | 3,685,286 | 1,807,709 | 2,145,647 | 5,959,076 | Salaires et gages |
| 65,528 | 69,542 | 1,610,546 | 922,091 | 810,935 | Combustible |
| 2,950,597 | 287,144 | 192,629 | 1,051,229 | 2,872,950 | Taxes (x) |
| 50,857,246 | 1,059,404 | 1,016,243 | 1,458,152 | 7,530,770 | Achat d'énergie électrique |
| 9,040,048 | 1,777,535 | 889,585 | 2,657,749 | 14,750,915 | <u>TOTAL POUR LES USINES COMMERCIALES</u> |
| 1,771,595 | 1,009,992 | 476,765 | 1,225,443 | 4,664,698 | Salaires et gages |
| 15,905 | 24,298 | 290,815 | 368,573 | 614,770 | Combustible |
| 1,868,601 | 156,478 | 118,034 | 796,182 | 2,850,475 | Taxes (x) |
| 5,384,147 | 586,567 | 3,971 | 267,551 | 6,640,972 | Achat d'énergie électrique |
| 2,591,344 | 625,432 | 4,710 | 72,114 | 255,864 | Usines non-génératrices |
| 6,648,704 | 1,151,901 | 884,875 | 2,585,655 | 14,495,051 | Usines génératrices |
| 6,631,555 | 1,089,388 | 524,392 | 1,656,936 | 14,248,720 | Usines hydrauliques |
| 17,149 | 62,513 | 560,481 | 928,699 | 246,551 | Usines à combustible |
| 78,910,582 | 3,302,043 | 3,757,544 | 2,919,350 | 2,422,796 | <u>TOTAL POUR LES USINES MUNICIPALES</u> |
| 32,305,684 | 2,673,294 | 1,350,944 | 920,204 | 1,294,578 | Salaires et gages |
| 49,625 | 45,244 | 1,319,753 | 553,518 | 196,165 | Combustible |
| 1,081,996 | 150,668 | 74,595 | 255,047 | 42,455 | Taxes (x) |
| 45,475,099 | 452,857 | 1,012,272 | 1,190,581 | 889,798 | Achat d'énergie électrique |
| 41,362,042 | 1,518,551 | 1,067,404 | 1,678,455 | 717,275 | Usines non-génératrices |
| 57,548,540 | 1,765,492 | 2,670,140 | 1,240,897 | 1,705,521 | Usines génératrices |
| 37,499,679 | 1,745,425 | - | - | 1,629,179 | Usines hydrauliques |
| 48,661 | 40,069 | 2,670,140 | 1,240,897 | 76,342 | Usines à combustible |
| 45,755,586 | 2,145,985 | 1,072,114 | 1,750,567 | 975,159 | <u>TOTAL DES DEPENSES DES USINES NON-GÉNÉRATRICES</u> |
| 8,925,227 | 1,083,575 | 141,180 | 382,751 | 238,181 | Salaires et gages |
| 2,661 | - | - | - | - | Combustible |
| 422,718 | 25,855 | 74,579 | 126,200 | 19,790 | Taxes (x) |
| 34,404,780 | 1,056,575 | 856,555 | 1,241,616 | 715,168 | Achat d'énergie électrique |
| 44,197,044 | 2,955,595 | 3,555,013 | 5,826,532 | 16,200,572 | <u>TOTAL DES DEPENSES DES USINES GÉNÉRATRICES</u> |
| 25,153,832 | 2,599,713 | 1,666,529 | 1,762,896 | 5,720,895 | Salaires et gages |
| 62,867 | 69,542 | 1,610,546 | 922,091 | 810,935 | Combustible |
| 2,527,879 | 263,509 | 118,050 | 925,029 | 2,855,140 | Taxes (x) |
| 16,452,466 | 2,829 | 159,888 | 216,516 | 6,815,602 | Achat d'énergie électrique |
| 44,151,254 | 2,852,811 | 324,392 | 1,656,936 | 15,877,899 | Usines hydrauliques |
| 65,810 | 102,582 | 3,230,621 | 2,169,596 | 522,673 | Usines à combustible |

* Ne comprend que les quatres items énumérés.

(x) Taxe des ventes non comprises (Voir p. 8).

TABLE 6 - EMPLOYEES, 1947

| | Canada | Prince Edward Island | Nova Scotia | New Brunswick | Quebec |
|---|--------|----------------------------|----------------|------------------|--------|
| <u>TOTAL NUMBER OF PERSONS EMPLOYED</u> | 26,704 | 127 | 1,440 | 864 | 7,101 |
| Per cent of total for Canada | 100.00 | 0.48 | 5.39 | 3.24 | 26.59 |
| Officers, clerks, other salaried employees, etc. | 8,526 | 32 | 554 | 202 | 1,984 |
| Employees on wages | 18,178 | 95 | 886 | 662 | 5,117 |
| <u>TOTAL EMPLOYEES IN COMMERCIAL STATIONS</u> | 10,570 | 106 | 957 | 546 | 5,356 |
| Officers, clerks, other salaried employees, etc. | 2,997 | 26 | 324 | 100 | 1,220 |
| Employees on wages | 7,573 | 80 | 635 | 246 | 4,116 |
| Non-generating | 540 | - | 181 | 158 | 65 |
| Generating | 10,030 | 106 | 776 | 208 | 5,271 |
| Hydraulic | 8,940 | 7 | 260 | 93 | 5,260 |
| Fuel | 1,090 | 99 | 516 | 115 | 11 |
| <u>TOTAL EMPLOYEES IN MUNICIPAL STATIONS</u> | 16,134 | 21 | 483 | 518 | 1,765 |
| Officers, clerks, other salaried employees, etc. | 5,529 | 6 | 250 | 102 | 764 |
| Employees on wages | 10,605 | 15 | 253 | 416 | 1,001 |
| Non-generating | 5,723 | - | 125 | 96 | 145 |
| Generating | 10,411 | 21 | 558 | 422 | 1,620 |
| Hydraulic | 9,076 | - | 254 | 48 | 1,616 |
| Fuel | 1,335 | 21 | 104 | 374 | 4 |
| <u>TOTAL EMPLOYEES IN NON-GENERATING STATIONS</u> | 6,263 | - | 306 | 234 | 210 |
| Officers, clerks, other salaried employees, etc. | 2,431 | - | 101 | 97 | 67 |
| Employees on wages | 3,832 | - | 205 | 137 | 143 |
| <u>TOTAL EMPLOYEES IN GENERATING STATIONS</u> | 20,441 | 127 | 1,154 | 650 | 6,891 |
| Officers, clerks, other salaried employees, etc. | 6,095 | 32 | 453 | 105 | 1,917 |
| Employees on wages | 14,346 | 95 | 681 | 525 | 4,974 |
| Hydraulic | 18,016 | 7 | 514 | 141 | 6,876 |
| Fuel | 2,425 | 120 | 620 | 489 | 15 |

TABLEAU 6 - EMPLOYES, 1947

| Ontario | Manitoba | Saskat-chewan | Alberta | British Columbia and Yukon | |
|---------|----------|---------------|---------|----------------------------|--|
| 10,987 | 2,001 | 815 | 958 | 2,411 | <u>TOTAL DU PERSONNEL OCCUPE</u> |
| 41.14 | 7.49 | 5.05 | 5.59 | 9.03 | Pourcentage du total pour le Canada |
| 3,765 | 608 | 223 | 329 | 829 | Administrateurs, directeurs, commis et tous employés des bureaux |
| 7,222 | 1,393 | 592 | 629 | 1,582 | Ouvriers et journaliers |
| 785 | 486 | 209 | 527 | 1,818 | <u>PERSONNEL DES USINES COMMERCIALES</u> |
| 208 | 188 | 78 | 176 | 677 | Administrateurs, directeurs, commis et tous employés des bureaux |
| 577 | 298 | 131 | 351 | 1,141 | Ouvriers et journaliers |
| 94 | 10 | 2 | 11 | 39 | Non-génératrices |
| 691 | 476 | 207 | 516 | 1,779 | Génératrices |
| 688 | 456 | 121 | 328 | 1,727 | Hydrauliques |
| 5 | 20 | 86 | 188 | 52 | Combustible |
| 10,202 | 1,515 | 606 | 451 | 593 | <u>PERSONNEL DES USINES MUNICIPALES</u> |
| 3,557 | 420 | 145 | 153 | 152 | Administrateurs, directeurs, commis et tous employés des bureaux |
| 6,645 | 1,095 | 461 | 278 | 441 | Ouvriers et journaliers |
| 4,261 | 761 | 70 | 183 | 82 | Non-génératrices |
| 5,941 | 754 | 536 | 248 | 511 | Génératrices |
| 5,928 | 741 | - | - | 489 | Hydrauliques |
| 15 | 15 | 536 | 248 | 22 | Combustible |
| 4,355 | 771 | 72 | 194 | 121 | <u>PERSONNEL DES USINES NON-GENERATRICES</u> |
| 1,808 | 180 | 55 | 97 | 46 | Administrateurs, directeurs, commis et tous employés des bureaux |
| 2,547 | 591 | 37 | 97 | 75 | Ouvriers et journaliers |
| 6,632 | 1,250 | 743 | 764 | 2,290 | <u>PERSONNEL DES USINES GENERATRICES</u> |
| 1,957 | 428 | 188 | 252 | 783 | Administrateurs, directeurs, commis et tous employés des bureaux |
| 4,675 | 802 | 555 | 532 | 1,507 | Ouvriers et journaliers |
| 6,616 | 1,197 | 121 | 328 | 2,216 | Hydrauliques |
| 16 | 33 | 622 | 436 | 74 | Combustible |

TABLE 7 - NUMBER OF CUSTOMERS, 1947

| | Canada | Prince Edward Island | Nova Scotia | New Brunswick | Quebec |
|--|-----------|----------------------------|----------------|------------------|---------|
| <u>NUMBER OF CUSTOMERS</u> | 2,645,527 | 8,985 | 115,402 | 84,735 | 734,555 |
| Per cent of total for Canada | 100.00 | 0.34 | 4.29 | 3.21 | 27.78 |
| Domestic service | 2,246,253 | 7,372 | 96,251 | 74,854 | 651,597 |
| Commercial light | 526,988 | 1,452 | 15,872 | 8,174 | 87,045 |
| Power (small) | 53,604 | 147 | 2,955 | 1,486 | 12,873 |
| Power (large) | 12,825 | 5 | 256 | 151 | 1,894 |
| Power (municipal) | 858 | 14 | 12 | 9 | 170 |
| Street lighting | 2,819 | 15 | 98 | 61 | 974 |
| <u>COMMERCIAL STATIONS</u> | 870,408 | 7,505 | 74,887 | 50,084 | 567,277 |
| Domestic service | 753,257 | 5,969 | 63,409 | 25,150 | 516,767 |
| Commercial light | 111,471 | 1,206 | 9,229 | 4,064 | 41,478 |
| Power (small) | 18,426 | 99 | 2,095 | 771 | 6,618 |
| Power (large) | 5,455 | 4 | 100 | 90 | 1,574 |
| Power (municipal) | 310 | 13 | 5 | 6 | 122 |
| Street lighting | 1,489 | 14 | 49 | 25 | 918 |
| Non-generating | 86,082 | 53 | 26,841 | 17,705 | 7,304 |
| Generating | 784,326 | 7,252 | 48,046 | 12,379 | 559,975 |
| Hydraulic | 697,448 | 495 | 14,801 | 5,570 | 559,284 |
| Fuel | 86,878 | 6,757 | 35,245 | 8,809 | 689 |
| <u>MUNICIPAL STATIONS</u> | 1,772,919 | 1,680 | 58,515 | 54,651 | 367,076 |
| Domestic service | 1,512,996 | 1,405 | 52,822 | 49,724 | 514,830 |
| Commercial light | 215,517 | 226 | 4,646 | 4,110 | 45,567 |
| Power (small) | 35,178 | 48 | 858 | 715 | 6,055 |
| Power (large) | 7,370 | 1 | 156 | 61 | 520 |
| Power (municipal) | 528 | 1 | 7 | 3 | 48 |
| Street lighting | 1,350 | 1 | 49 | 38 | 56 |
| Non-generating | 940,725 | - | 18,456 | 17,841 | 28,567 |
| Generating | 852,194 | 1,680 | 20,059 | 56,810 | 558,709 |
| Hydraulic | 671,848 | - | 11,782 | 2,578 | 558,521 |
| Fuel | 160,346 | 1,680 | 8,277 | 34,252 | 588 |
| <u>NON-GENERATING STATIONS</u> | 1,026,807 | 53 | 45,297 | 35,546 | 35,671 |
| Domestic service | 874,561 | 35 | 39,006 | 30,619 | 51,575 |
| Commercial light | 126,815 | 17 | 5,140 | 4,186 | 5,595 |
| Power (small) | 20,912 | - | 1,011 | 663 | 557 |
| Power (large) | 3,485 | - | 97 | 51 | 75 |
| Power (municipal) | 485 | - | 7 | 7 | 19 |
| Street lighting | 751 | 1 | 36 | 20 | 54 |
| <u>GENERATING STATIONS</u> | 1,616,520 | 8,952 | 68,105 | 49,189 | 698,682 |
| Hydraulic stations | 1,569,296 | 495 | 26,585 | 6,148 | 697,605 |
| Domestic service | 1,175,426 | 590 | 22,826 | 5,175 | 599,596 |
| Commercial light | 159,592 | 102 | 5,061 | 605 | 85,217 |
| Power (small) | 24,402 | 2 | 562 | 125 | 12,111 |
| Power (large) | 8,418 | - | 91 | 33 | 1,814 |
| Power (municipal) | 199 | - | 5 | 2 | 151 |
| Street lighting | 1,459 | 1 | 40 | 8 | 918 |
| Fuel stations | 247,224 | 8,457 | 41,522 | 45,041 | 1,077 |
| Domestic service | 196,466 | 6,947 | 34,399 | 39,060 | 828 |
| Commercial | 40,781 | 1,315 | 5,671 | 3,185 | 235 |
| Power (small) | 8,290 | 145 | 1,580 | 698 | 5 |
| Power (large) | 924 | 5 | 48 | 67 | 5 |
| Power (municipal) | 154 | 14 | 2 | - | - |
| Street lighting | 609 | 13 | 22 | 35 | 4 |
| Average number of domestic service customers per 100 of population | 17.85 | 7.84 | 15.50 | 15.25 | 17.02 |

TABLEAU 7 - NOMBRE D'USAGERS, 1947

| Ontario | Manitoba | Saskatchewan | Alberta | British Columbia and Yukon | |
|-----------|----------|--------------|---------|----------------------------|--|
| 1,055,474 | 148,258 | 97,273 | 150,954 | 269,915 | <u>NOMBRE D'USAGERS</u> |
| 39,95 | 5,61 | 3,68 | 4,95 | 10,21 | Pourcentage du total pour le Canada |
| 918,770 | 116,570 | 75,625 | 100,154 | 227,100 | Service domestique |
| 116,304 | 22,428 | 19,366 | 22,429 | 35,938 | Eclairage commercial |
| 15,501 | 4,481 | 3,413 | 7,246 | 5,704 | Force motrice (petite) |
| 3,853 | 4,498 | 458 | 720 | 1,050 | Force motrice (grosse) |
| 450 | 6 | 19 | 150 | 28 | Energie (municipale) |
| 636 | 275 | 592 | 255 | 115 | Eclairage des rues |
| 71,348 | 45,914 | 11,529 | 48,652 | 215,412 | <u>NOMBRE D'USAGERS DES USINES COMMERCIALES</u> |
| 61,486 | 34,264 | 9,142 | 34,803 | 182,287 | Service domestique |
| 8,519 | 6,762 | 1,975 | 10,090 | 28,148 | Eclairage commercial |
| 886 | 574 | 511 | 3,046 | 4,026 | Force motrice (petite) |
| 580 | 2,290 | 19 | 532 | 866 | Force motrice (grosse) |
| 9 | 1 | 2 | 140 | 12 | Energie (municipale) |
| 68 | 25 | 80 | 241 | 73 | Eclairage des rues |
| 16,055 | 10,052 | 181 | 2,865 | 5,028 | Non-génératrices |
| 55,295 | 35,862 | 11,348 | 45,789 | 210,384 | Génératrices |
| 54,665 | 32,105 | 6 | 25,619 | 206,905 | Hydrauliques |
| 628 | 1,757 | 11,342 | 20,170 | 3,481 | Combustible |
| 984,126 | 104,344 | 85,744 | 82,282 | 54,501 | <u>NOMBRE D'USAGERS DES USINES MUNICIPALES</u> |
| 857,284 | 82,306 | 64,483 | 65,551 | 44,813 | Service domestique |
| 107,785 | 15,666 | 17,391 | 12,559 | 7,790 | Eclairage commercial |
| 14,615 | 5,907 | 3,102 | 4,200 | 1,678 | Force motrice (petite) |
| 3,455 | 2,208 | 439 | 588 | 164 | Force motrice (grosse) |
| 421 | 5 | 17 | 10 | 16 | Energie (municipale) |
| 568 | 252 | 512 | 14 | 40 | Eclairage des rues |
| 751,957 | 44,206 | 19,599 | 57,520 | 22,979 | Non-génératrices |
| 252,169 | 60,158 | 66,145 | 44,962 | 51,522 | Génératrices |
| 230,591 | 58,953 | - | - | 29,625 | Hydrauliques |
| 1,578 | 1,185 | 66,145 | 44,962 | 1,899 | Combustible |
| 768,012 | 54,258 | 19,780 | 40,185 | 28,007 | <u>NOMBRE D'USAGERS DES USINES NON-GENERATRICES</u> |
| 658,864 | 42,255 | 15,654 | 32,945 | 23,610 | Service domestique |
| 92,273 | 9,971 | 3,105 | 4,909 | 3,623 | Eclairage commercial |
| 13,384 | 1,507 | 977 | 2,180 | 635 | Force motrice (petite) |
| 2,735 | 270 | 27 | 127 | 101 | Force motrice (grosse) |
| 420 | 5 | 7 | 7 | 15 | Energie (municipale) |
| 556 | 252 | 12 | 15 | 25 | Eclairage des rues |
| 287,462 | 94,000 | 77,493 | 90,751 | 241,906 | <u>NOMBRE D'USAGERS DES USINES GENERATRICES</u> |
| 285,256 | 91,058 | 6 | 25,619 | 236,526 | Usines hydrauliques |
| 258,059 | 72,175 | - | 18,216 | 199,189 | Service domestique |
| 25,761 | 11,855 | - | 5,191 | 51,420 | Eclairage commercial |
| 2,054 | 2,812 | - | 1,836 | 4,920 | Force motrice (petite) |
| 1,097 | 4,225 | 6 | 233 | 921 | Force motrice (grosse) |
| 9 | 2 | - | 27 | 5 | Energie (municipale) |
| 296 | 11 | - | 116 | 71 | Eclairage des rues |
| 2,206 | 2,942 | 77,487 | 65,132 | 5,380 | <u>Usines à combustible</u> |
| 1,847 | 2,140 | 57,971 | 48,975 | 4,501 | Service domestique |
| 270 | 622 | 16,265 | 12,329 | 895 | Eclairage commercial |
| 85 | 162 | 2,456 | 3,230 | 151 | Force motrice (petite) |
| 1 | 5 | 425 | 560 | 8 | Force motrice (grosse) |
| 1 | 1 | 12 | 116 | 8 | Energie (municipale) |
| 4 | 12 | 580 | 124 | 17 | Eclairage des rues |
| 21.95 | 15.69 | 8.74 | 12.18 | 21.26 | Moyenne de consommateurs d'éclairage électrique par 100 habitants |

TABLE 8 - POLE LINE MILEAGE, 1947

| | Canada | Prince Edward Island | Nova Scotia | New Brunswick | Quebec |
|--|--------|----------------------------|----------------|------------------|--------|
| <u>POLE LINE MILEAGE</u> | 98,530 | 458 | 5,856 | 4,554 | 19,856 |
| Per cent of total for Canada | 100.00 | 0.46 | 5.92 | 4.40 | 20.15 |
| Miles of steel towers | 5,750 | - | 21 | 245 | 1,452 |
| Miles of steel poles | 295 | - | 2 | - | 214 |
| Miles of wooden poles | 89,864 | 455 | 5,801 | 4,090 | 17,426 |
| Miles of concrete poles | 514 | - | - | 1 | - |
| Miles of underground and submarine cables | 2,129 | 3 | 12 | - | 764 |
| <u>TOTAL POLE LINE MILEAGE - COMMERCIAL STATIONS</u> | 55,891 | 589 | 2,889 | 816 | 16,724 |
| Non-generating | 2,558 | 8 | 612 | 258 | 477 |
| Generating | 53,533 | 581 | 2,277 | 578 | 16,247 |
| Hydraulic | 30,157 | 26 | 1,561 | 377 | 16,254 |
| Fuel | 5,376 | 555 | 916 | 201 | 15 |
| <u>TOTAL POLE LINE MILEAGE - MUNICIPAL STATIONS</u> | 62,659 | 69 | 2,947 | 5,518 | 5,132 |
| Non-generating | 16,411 | - | 566 | 228 | 518 |
| Generating | 46,228 | 69 | 2,581 | 3,290 | 2,814 |
| Hydraulic | 37,901 | - | 1,764 | 40 | 2,802 |
| Fuel | 8,527 | 69 | 617 | 3,250 | 12 |
| <u>TOTAL POLE LINE MILEAGE - NON-GENERATING STATIONS</u> | 18,769 | 8 | 1,178 | 466 | 795 |
| <u>TOTAL POLE LINE MILEAGE - GENERATING STATIONS</u> | 79,761 | 450 | 4,658 | 5,868 | 19,061 |
| Hydraulic | 68,058 | 26 | 5,125 | 417 | 19,056 |
| Fuel | 11,703 | 424 | 1,555 | 3,451 | 25 |

TABLE 9 - AUXILIARY PLANT EQUIPMENT, 1947

| | | | | | | |
|------------------------------------|-------|---------|------|-------|-------|--------|
| <u>TOTAL PRIMARY POWER</u> | H.P. | 184,930 | 155 | 2,025 | 4,885 | 42,908 |
| Per cent of total for Canada | | 100.00 | 0.07 | 1.10 | 2.64 | 23.20 |
| Steam reciprocating engines | No. | 12 | 1 | 5 | - | - |
| Total capacity | H.P. | 5,768 | 75 | 1,190 | - | - |
| Steam turbines | No. | 41 | - | 1 | 5 | 8 |
| Total capacity | H.P. | 159,517 | - | 670 | 1,925 | 56,224 |
| Gas and oil engines | No. | 45 | 1 | 1 | 5 | 10 |
| Total capacity | H.P. | 19,645 | 60 | 165 | 2,960 | 6,684 |
| <u>TOTAL SECONDARY POWER</u> | Kv.A. | 154,199 | 48 | 1,638 | 3,761 | 38,588 |
| <u>COMMERCIAL STATIONS</u> | | | | | | |
| <u>TOTAL PRIMARY POWER</u> | H.P. | 89,129 | 155 | 2,025 | 2,525 | 8,192 |
| Steam reciprocating engines | No. | 11 | 1 | 5 | - | - |
| Total capacity | H.P. | 4,018 | 75 | 1,190 | - | - |
| Steam turbines | No. | 25 | - | 1 | 5 | 5 |
| Total capacity | H.P. | 75,875 | - | 670 | 1,925 | 5,500 |
| Gas and oil engines | No. | 24 | 1 | 1 | 2 | 5 |
| Total capacity | H.P. | 9,236 | 60 | 165 | 600 | 4,692 |
| <u>TOTAL SECONDARY POWER</u> | Kv.A. | 72,861 | 48 | 1,638 | 1,735 | 6,719 |
| <u>MUNICIPAL STATIONS</u> | | | | | | |
| <u>TOTAL PRIMARY POWER</u> | H.P. | 95,801 | - | - | 2,560 | 54,716 |
| Steam reciprocating engines | No. | 1 | - | - | - | - |
| Total capacity | H.P. | 1,750 | - | - | - | - |
| Steam turbines | No. | 16 | - | - | - | 5 |
| Total capacity | H.P. | 85,642 | - | - | - | 52,724 |
| Gas and oil engines | No. | 21 | - | - | 5 | 5 |
| Total capacity | H.P. | 10,409 | - | - | 2,360 | 1,992 |
| <u>TOTAL SECONDARY POWER</u> | Kv.A. | 61,358 | - | - | 2,026 | 51,569 |

TABLEAU 8 - LONGUEUR (EN MILLES) DES LIGNES SUR POTEAUX, 1947

| Ontario | Manitoba | Saskatchewan | Alberta | British Columbia and Yukon | |
|---------|----------|--------------|---------|----------------------------|--|
| 41,851 | 8,262 | 4,555 | 6,271 | 7,509 | <u>LONGUEUR (EN MILLES) DES LIGNES SUR POTEAUX</u> |
| 42,48 | 8,39 | 4,42 | 6,56 | 7,42 | Pourcentage du total pour tout le Canada |
| 5,086 | 688 | 59 | 51 | 150 | Milles de pylones d'acier |
| 74 | 5 | - | - | - | Milles de poteaux d'acier |
| 37,123 | 7,521 | 4,269 | 6,150 | 7,029 | Milles de poteaux de bois |
| 512 | 1 | - | - | - | Milles de poteaux de ciment |
| 1,056 | 49 | 25 | 90 | 150 | Milles de cables souterrains et sous-marins |
| 2,198 | 1,361 | 568 | 5,241 | 5,905 | <u>TOTAL (EN MILLES) POUR LE SERVICE DES USINES COMMERCIALES</u> |
| 427 | 204 | 4 | 71 | 517 | Non-génératrices |
| 1,771 | 1,157 | 564 | 5,170 | 5,588 | Génératrices |
| 1,785 | 1,082 | 59 | 3,774 | 5,481 | Hydrauliques |
| 8 | 75 | 505 | 1,596 | 107 | A combustible |
| 39,655 | 6,901 | 5,985 | 1,050 | 1,404 | <u>TOTAL (EN MILLES) POUR LE SERVICE DES USINES MUNICIPALES</u> |
| 8,200 | 5,979 | 212 | 522 | 586 | Non-génératrices |
| 51,455 | 922 | 5,773 | 508 | 1,018 | Génératrices |
| 51,422 | 904 | - | - | 969 | Hydrauliques |
| 51 | 18 | 5,773 | 508 | 49 | A combustible |
| 8,627 | 6,183 | 216 | 593 | 703 | <u>TOTAL (EN MILLES) POUR LE SERVICE DES USINES NON-GÉNÉRATRICES</u> |
| 53,224 | 2,079 | 4,157 | 5,678 | 6,606 | <u>TOTAL (EN MILLES) POUR LE SERVICE DES USINES GÉNÉRATRICES</u> |
| 53,185 | 1,986 | 59 | 3,774 | 6,450 | Hydrauliques |
| 59 | 95 | 4,078 | 1,904 | 156 | A combustible |

TABLEAU 9 - OUTILLAGE AUXILIAIRE, 1947

| | | | | | |
|--------|--------|---|--------|--------|---|
| 45,260 | 19,490 | - | 18,965 | 51,264 | <u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P. |
| 24,47 | 10,54 | - | 10,26 | 27,72 | Pourcentage du total pour tout le Canada Nomb. |
| - | 1 | - | 7 | - | Machines à vapeur, à mouvement alternatif Nomb. |
| - | 1,750 | - | 2,753 | - | Capacité totale H.P. |
| 5 | 6 | - | 4 | 14 | Turbines à vapeur Nomb. |
| 42,020 | 17,740 | - | 15,000 | 45,938 | Capacité totale H.P. |
| 4 | - | - | 7 | 17 | Moteurs à gaz et à pétrole Nomb. |
| 5,240 | - | - | 1,210 | 5,326 | Capacité totale H.P. |
| 57,544 | 18,026 | - | 16,662 | 58,532 | <u>TOTAL, FORCE MOTRICE SECONDAIRE</u> Kv.A. |
| 14,160 | - | - | 18,963 | 45,129 | <u>USINES COMMERCIALES</u> |
| - | - | - | 7 | - | <u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P. |
| - | - | - | 2,753 | - | Machines à vapeur, à mouvement alternatif Nomb. |
| 3 | - | - | 4 | 11 | Capacité totale H.P. |
| 12,520 | - | - | 15,000 | 42,260 | Turbines à vapeur Nomb. |
| 3 | - | - | 7 | 5 | Capacité totale H.P. |
| 1,640 | - | - | 1,210 | 869 | Moteurs à gaz et à pétrole Nomb. |
| 11,094 | - | - | 16,662 | 54,965 | Capacité totale H.P. |
| 51,100 | 19,490 | - | - | 8,135 | <u>TOTAL, FORCE MOTRICE SECONDAIRE</u> Kv.A. |
| - | 1 | - | - | - | <u>USINES MUNICIPALES</u> |
| - | 1,750 | - | - | - | <u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P. |
| 2 | 6 | - | - | 3 | Machines à vapeur, à mouvement alternatif Nomb. |
| 29,500 | 17,740 | - | - | 3,678 | Capacité totale H.P. |
| 1 | - | - | - | 12 | Turbines à vapeur Nomb. |
| 1,600 | - | - | - | 4,457 | Capacité totale H.P. |
| 26,250 | 16,026 | - | - | 5,367 | <u>TOTAL, FORCE MOTRICE SECONDAIRE</u> Kv.A. |

TABLE 10 - TOTAL EQUIPMENT INCLUDING AUXILIARY PLANT EQUIPMENT, 1947

| | Canada | Prince Edward Island | Nova Scotia | New Brunswick | Quebec |
|--|-----------|----------------------------|----------------|------------------|-----------|
| TOTAL PRIMARY POWER H.P. | 9,786,087 | 9,435 | 206,727 | 166,957 | 5,468,168 |
| Per cent of total for Canada | 100.00 | 0.10 | 2.11 | 1.71 | 55.88 |
| Water wheels and turbines No. | 788 | 6 | 55 | 14 | 280 |
| Total capacity H.P. | 9,181,650 | 363 | 106,658 | 104,260 | 5,424,600 |
| Steam reciprocating engines No. | 21 | 1 | 5 | 2 | - |
| Total capacity H.P. | 12,086 | 75 | 2,990 | 1,800 | - |
| Steam turbines No. | 116 | 4 | 20 | 10 | 8 |
| Total capacity H.P. | 565,098 | 6,680 | 94,051 | 56,045 | 56,224 |
| Gas and oil engines No. | 433 | 16 | 18 | 13 | 15 |
| Total capacity H.P. | 77,053 | 2,517 | 5,028 | 4,852 | 7,344 |
| TOTAL DYNAMO CAPACITY Kv.A. | 8,158,687 | 7,045 | 172,519 | 142,127 | 4,656,181 |
| Per cent of total for Canada | 100.00 | 0.09 | 2.12 | 1.74 | 56.96 |
| Dynamos, A.C. No. | 1,263 | 23 | 97 | 58 | 502 |
| Total capacity Kv.A. | 8,154,876 | 7,045 | 172,019 | 142,127 | 4,656,181 |
| Dynamos, D.C. No. | 84 | - | 1 | - | - |
| Total capacity Kw. | 3,811 | - | 300 | - | - |
| COMMERCIAL STATIONS | | | | | |
| TOTAL PRIMARY POWER H.P. | 6,025,254 | 7,650 | 118,172 | 123,465 | 4,401,212 |
| Water Wheels and turbines No. | 426 | 6 | 16 | 8 | 205 |
| Total capacity H.P. | 5,750,950 | 363 | 25,878 | 91,400 | 4,392,540 |
| Steam reciprocating engines No. | 17 | 1 | 5 | 2 | - |
| Total capacity H.P. | 8,026 | 75 | 2,990 | 1,800 | - |
| Steam turbines No. | 55 | 4 | 15 | 6 | 5 |
| Total capacity H.P. | 239,268 | 6,680 | 86,845 | 29,665 | 5,500 |
| Gas and oil engines No. | 218 | 11 | 8 | 2 | 8 |
| Total capacity H.P. | 27,010 | 532 | 2,459 | 600 | 5,172 |
| TOTAL DYNAMO CAPACITY Kv.A. | 5,023,723 | 5,559 | 98,449 | 105,020 | 3,678,538 |
| Dynamos, A.C. No. | 639 | 18 | 45 | 17 | 215 |
| Total capacity Kv.A. | 5,021,423 | 5,559 | 98,149 | 105,020 | 3,678,538 |
| Dynamos, D.C. No. | 66 | - | 1 | - | - |
| Total capacity Kw. | 2,500 | - | 300 | - | - |
| MUNICIPAL STATIONS | | | | | |
| TOTAL PRIMARY POWER H.P. | 3,760,835 | 1,785 | 88,555 | 45,492 | 1,066,956 |
| Water Wheels and turbines No. | 362 | - | 59 | 6 | 75 |
| Total capacity H.P. | 3,580,900 | - | 80,780 | 12,860 | 1,032,060 |
| Steam reciprocating engines No. | 4 | - | - | - | - |
| Total capacity H.P. | 4,060 | - | - | - | - |
| Steam turbines No. | 61 | - | 5 | 4 | 5 |
| Total capacity H.P. | 325,830 | - | 7,206 | 26,580 | 32,724 |
| Gas and oil engines No. | 215 | 5 | 10 | 11 | 7 |
| Total capacity H.P. | 50,043 | 1,785 | 569 | 4,252 | 2,172 |
| TOTAL DYNAMO CAPACITY Kv.A. | 3,114,964 | 1,486 | 75,870 | 57,107 | 957,823 |
| Dynamos, A.C. No. | 624 | 5 | 54 | 21 | 87 |
| Total capacity Kv.A. | 3,113,453 | 1,486 | 75,870 | 57,107 | 957,823 |
| Dynamos, D.C. No. | 18 | - | - | - | - |
| Total capacity Kw. | 1,511 | - | - | - | - |

I - One hydraulic station formerly with Manitoba now shown in Saskatchewan.

TABLEAU 10 - OUTILLAGE GLOBAL, Y COMPRIS OUTILLAGE AUXILIAIRE, 1947

| Ontario | Manitoba | Saskatchewan | Alberta | British Columbia and Yukon | |
|----------------------------|--------------|--------------|---------|----------------------------|---|
| 2,471,763 | I 465,978 | I 265,609 | 280,561 | 504,889 | <u>TOTAL FORCE MOTRICE PRIMAIRE</u> H.P. |
| 25.26 | 4.74 | 2.69 | 2.55 | 5.16 | Pourcentage du total pour le Canada |
| 511 | 40 | 5 | 10 | 67 | Turbines et roues hydrauliques Nomb. |
| 2,425,365 | 442,800 | 87,500 | 104,500 | 435,806 | Capacité totale H.P. |
| - | 1 | 1 | 11 | - | Machines à vapeur, à mouvement alternatif Nomb. |
| - | 1,750 | 750 | 4,721 | - | Capacité totale H.P. |
| 5 | 6 | 24 | 19 | 20 | Turbines à vapeur Nomb. |
| 42,020 | 17,740 | 147,018 | 110,190 | 55,130 | Capacité totale H.P. |
| 13 | 11 | 164 | 114 | 69 | Moteurs à gaz et à pétrole Nomb. |
| 4,380 | 1,688 | 28,341 | 11,150 | 15,953 | Capacité totale H.P. |
| 1,971,791 | 375,089 | 221,657 | 193,573 | 418,925 | <u>CAPACITE TOTALE DES DYNAMOS</u> Kv.A. |
| 24.23 | 4.61 | 2.72 | 2.38 | 5.15 | Pourcentage du total pour le Canada |
| 529 | 57 | 142 | 125 | 150 | Dynamos, C.A. Nomb. |
| 1,971,791 | 575,089 | 220,751 | 191,018 | 418,895 | Capacité totale Kv.A. |
| - | - | 54 | 26 | 3 | Dynamos, C.D. Nomb. |
| - | - | 926 | 2,555 | 30 | Capacité totale Kw. |
| <u>USINES COMMERCIALES</u> | | | | | |
| 409,772 | 266,848 | 120,809 | 138,470 | 438,856 | <u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P. |
| 112 | 18 | 5 | 10 | 46 | Turbines et roues hydrauliques Nomb. |
| 595,297 | 265,800 | 87,500 | 104,500 | 387,672 | Capacité totale H.P. |
| - | - | - | 9 | - | Machines à vapeur, à mouvement alternatif Nomb. |
| - | - | - | 5,161 | - | Capacité totale H.P. |
| 5 | - | 4 | 6 | 14 | Turbines à vapeur Nomb. |
| 12,520 | - | 31,998 | 20,300 | 47,760 | Capacité totale H.P. |
| 6 | 9 | 44 | 105 | 25 | Moteurs à gaz et à pétrole Nomb. |
| 1,955 | 1,048 | 1,311 | 10,509 | 3,424 | Capacité totale H.P. |
| 555,533 | 206,968 | 96,661 | 111,657 | 567,558 | <u>CAPACITE TOTALE DES DYNAMOS</u> Kv.A. |
| 121 | 26 | 11 | 108 | 80 | Dynamos, C.A. Nomb. |
| 555,533 | 206,968 | 96,049 | 110,279 | 567,528 | Capacité totale Kv.A. |
| - | - | 41 | 21 | 5 | Dynamos, C.D. Nomb. |
| - | - | 612 | 1,358 | 30 | Capacité totale Kw. |
| <u>USINES MUNICIPALES</u> | | | | | |
| 2,061,991 | 197,150 | 142,800 | 92,091 | 66,033 | <u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P. |
| 199 | 22 | - | - | 21 | Turbines et roues hydrauliques Nomb. |
| 2,050,066 | 177,000 | - | - | 48,134 | Capacité totale H.P. |
| - | 1 | 1 | 2 | - | Machines à vapeur, à mouvement alternatif Nomb. |
| - | 1,750 | 750 | 1,560 | - | Capacité totale H.P. |
| 2 | 6 | 20 | 13 | 6 | Turbines à vapeur Nomb. |
| 29,500 | 17,740 | 115,020 | 89,890 | 7,370 | Capacité totale H.P. |
| 7 | 2 | 120 | 9 | 44 | Moteurs à gaz et à pétrole Nomb. |
| 2,425 | 640 | 27,050 | 641 | 10,529 | Capacité totale H.P. |
| 1,618,258 | 168,121 | 124,996 | 81,936 | 51,367 | <u>CAPACITE TOTALE DES DYNAMOS</u> Kv.A. |
| 298 | 31 | 151 | 17 | 70 | Dynamos, C.A. Nomb. |
| 1,618,258 | 168,121 | 124,682 | 80,759 | 51,367 | Capacité totale Kv.A. |
| - | - | 15 | 5 | - | Dynamos, C.D. Nomb. |
| - | - | 314 | 1,197 | - | Capacité totale Kw. |

I - Une station hydraulique préalablement mentionnée sous le titre Manitoba se trouve maintenant sous celui de Saskatchewan.

TABLE II. - MAIN PLANT EQUIPMENT, 1947

| | | Canada | Prince Edward Island | Nova Scotia | New Brunswick | Quebec |
|------------------------------|--------|-----------|----------------------------|----------------|------------------|-----------|
| <u>TOTAL PRIMARY POWER</u> | H.P. | 9,601,157 | 9,300 | 204,702 | 162,072 | 5,425,260 |
| Per cent of total for Canada | 100.00 | 0.10 | 2.15 | 1.69 | 56.51 | 56.51 |
| Water Wheels and turbines | No. | 788 | 6 | 55 | 14 | 280 |
| Total Capacity | H.P. | 9,131,850 | 565 | 106,658 | 104,260 | 5,424,800 |
| Steam reciprocating engines | No. | 9 | - | 2 | 2 | - |
| Total Capacity | H.P. | 6,318 | - | 1,800 | 1,800 | - |
| Steam turbines | No. | 75 | 4 | 19 | 7 | - |
| Total Capacity | H.P. | 405,581 | 6,680 | 93,381 | 54,120 | - |
| Gas and oil engines | No. | 388 | 15 | 17 | 8 | 5 |
| Total Capacity | H.P. | 57,408 | 2,257 | 2,863 | 1,892 | 660 |
| <u>TOTAL DYNAMO CAPACITY</u> | Kv.A. | 7,984,488 | 6,997 | 170,681 | 138,566 | 4,597,775 |
| Per cent of total for Canada | 100.00 | 0.09 | 2.14 | 1.73 | 57.58 | 57.58 |
| Dynamos, A.C. | No. | 1,174 | 22 | 95 | 31 | 286 |
| Total Capacity | Kv.A. | 7,982,077 | 6,997 | 170,681 | 138,566 | 4,597,775 |
| Dynamos, D.C. | No. | 81 | - | - | - | - |
| Total Capacity | Kw. | 2,411 | - | - | - | - |
| <u>COMMERCIAL STATIONS</u> | | | | | | |
| <u>TOTAL PRIMARY POWER</u> | H.P. | 5,956,125 | 7,515 | 116,147 | 120,940 | 4,395,020 |
| Per cent of total for Canada | 100.00 | 0.13 | 1.96 | 2.04 | 74.00 | 74.00 |
| Water Wheels and turbines | No. | 426 | 6 | 16 | 8 | 205 |
| Total Capacity | H.P. | 5,750,950 | 565 | 25,878 | 91,400 | 4,392,540 |
| Steam reciprocating engines | No. | 6 | - | 2 | 2 | - |
| Total Capacity | H.P. | 4,008 | - | 1,800 | 1,800 | - |
| Steam turbines | No. | 50 | 4 | 14 | 3 | - |
| Total Capacity | H.P. | 163,593 | 6,680 | 86,175 | 27,740 | - |
| Gas and oil engines | No. | 194 | 10 | 7 | - | 3 |
| Total Capacity | H.P. | 17,774 | 472 | 2,294 | - | 480 |
| <u>TOTAL DYNAMO CAPACITY</u> | Kv.A. | 4,950,862 | 5,511 | 96,811 | 105,285 | 3,671,619 |
| Per cent of total for Canada | 100.00 | 0.11 | 1.95 | 2.09 | 74.16 | 74.16 |
| Dynamos, A.C. | No. | 587 | 17 | 39 | 15 | 209 |
| Total Capacity | Kv.A. | 4,949,962 | 5,511 | 96,811 | 105,285 | 3,671,619 |
| Dynamos, D.C. | No. | 63 | - | - | - | - |
| Total Capacity | Kw. | 900 | - | - | - | - |
| <u>MUNICIPAL STATIONS</u> | | | | | | |
| <u>TOTAL PRIMARY POWER</u> | H.P. | 3,665,032 | 1,785 | 88,555 | 41,132 | 1,032,240 |
| Per cent of total for Canada | 100.00 | 0.05 | 2.42 | 1.12 | 28.16 | 28.16 |
| Water Wheels and turbines | No. | 362 | - | 39 | 8 | 75 |
| Total Capacity | H.P. | 3,580,900 | - | 80,780 | 12,860 | 1,032,260 |
| Steam reciprocating engines | No. | 3 | - | - | - | - |
| Total Capacity | H.P. | 2,310 | - | - | - | - |
| Steam turbines | No. | 45 | - | 5 | 4 | - |
| Total Capacity | H.P. | 242,188 | - | 7,206 | 26,380 | - |
| Gas and oil engines | No. | 194 | 5 | 10 | 8 | 2 |
| Total Capacity | H.P. | 39,634 | 1,785 | 569 | 1,882 | 180 |
| <u>TOTAL DYNAMO CAPACITY</u> | Kv.A. | 3,035,628 | 1,486 | 73,870 | 35,081 | 926,154 |
| Per cent of total for Canada | 100.00 | 0.05 | 2.43 | 1.16 | 30.53 | 30.53 |
| Dynamos, A.C. | No. | 587 | 5 | 54 | 18 | 77 |
| Total Capacity | Kv.A. | 3,032,115 | 1,486 | 73,870 | 35,081 | 926,154 |
| Dynamos, D.C. | No. | 18 | - | - | - | - |
| Total Capacity | Kw. | 1,511 | - | - | - | - |
| <u>HYDRAULIC STATIONS</u> | | | | | | |
| <u>TOTAL DYNAMO CAPACITY</u> | Kv.A. | 7,585,998 | 558 | 87,095 | 90,288 | 4,597,229 |
| Per cent of total for Canada | 100.00 | 0.01 | 1.15 | 1.19 | 60.52 | 60.52 |
| Dynamos, A.C. | No. | 785 | 5 | 55 | 14 | 281 |
| Total Capacity | Kv.A. | 7,585,998 | 558 | 87,095 | 90,288 | 4,597,229 |
| Dynamos, D.C. | No. | - | - | - | - | - |
| Total Capacity | Kw. | - | - | - | - | - |
| <u>FUEL STATIONS</u> | | | | | | |
| <u>TOTAL DYNAMO CAPACITY</u> | Kv.A. | 400,490 | 6,659 | 85,586 | 48,078 | 544 |
| Per cent of total for Canada | 100.00 | 1.68 | 20.87 | 12.00 | 0.14 | 0.14 |
| Dynamos, A.C. | No. | 389 | 17 | 58 | 17 | 5 |
| Total Capacity | Kv.A. | 398,079 | 6,659 | 85,586 | 48,078 | 544 |
| Dynamos, D.C. | No. | 81 | - | - | - | - |
| Total Capacity | Kw. | 2,411 | - | - | - | - |

X - One hydraulic station formerly with Manitoba now shown in Saskatchewan.

TABLEAU 11 - OUTILLAGE DES USINES PRINCIPALES, 1947

| Ontario | Manitoba | Saskatchewan | Alberta | British Columbia and Yukon | |
|--|---------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|--|
| 2,426,505 25.27 311 2,425,565 | X 444,488 4.65 40 442,800 | X 265,609 2.75 5 87,500 | 211,598 2.20 10 104,500 | 453,625 4.72 67 435,806 | <u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P. Pourcentage du total pour le Canada Roues hydrauliques et turbines Nomb. Capacité totale H.P. Machines à vapeur, à mouvement alternatif Nomb. Capacité totale H.P. Turbines à vapeur Nomb. Capacité totale H.P. Moteurs à gaz et à pétrole Nomb. Capacité totale H.P. |
| - - - - | - - - - | 1 750 24 147,018 | 4 1,968 15 95,190 | - - 6 9,192 | |
| 9 1,140 | 11 1,688 | 164 28,341 | 107 9,940 | 52 8,627 | Moteurs à gaz et à pétrole Nomb. Capacité totale H.P. |
| 1,934,447 24.25 520 1,934,447 | 357,065 4.47 50 357,065 | 221,657 2.78 142 220,751 | 176,911 2.21 109 175,456 | 580,593 4.77 121 580,563 | <u>CAPACITE DES DYNAMOS</u> Kv.A. Pourcentage du total pour le Canada Dynamos, C.A. Nomb. Capacité totale Kv.A. Dynamos, C.D. Nomb. Capacité totale Kw. |
| - - | - - | 54 926 | 24 1,455 | 3 30 | |
| 595,612 6.66 112 595,297 | 266,848 4.50 18 265,800 | 120,809 2.05 5 87,500 | 119,507 2.01 10 104,500 | 595,727 6.67 46 587,672 | <u>USINES COMMERCIALES</u> <u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P. Pourcentage du total pour le Canada Turbines et roues hydrauliques Nomb. Capacité totale H.P. Machines à vapeur, à mouvement alternatif Nomb. Capacité totale H.P. Turbines à vapeur Nomb. Capacité totale H.P. Moteurs à gaz et à pétrole Nomb. Capacité totale H.P. |
| 5 515 | 9 1,048 | 44 1,311 | 98 9,299 | 20 2,555 | |
| 342,459 6.92 115 342,459 | 206,968 4.18 26 206,968 | 96,661 1.95 11 96,049 | 94,975 1.92 92 94,717 | 532,595 6.72 65 532,563 | <u>CAPACITE DES DYNAMOS</u> Kv.A. Pourcentage du total pour le Canada Dynamos, C.A. Nomb. Capacité totale Kv.A. Dynamos, C.D. Nomb. Capacité totale Kw. |
| - - | - - | 41 612 | 19 258 | 3 50 | |
| 2,050,891 55.41 199 2,050,066 | 177,640 4.85 22 177,000 | 142,800 5.90 - - | 92,091 2.51 - - | 57,898 1.58 21 48,134 | <u>USINES MUNICIPALES</u> <u>TOTAL, FORCE MOTRICE PRIMAIRE</u> H.P. Pourcentage du total pour le Canada Turbines et roues hydrauliques Nomb. Capacité totale H.P. Machines à vapeur, à mouvement alternatif Nomb. Capacité totale H.P. Turbines à vapeur Nomb. Capacité totale H.P. Moteurs à gaz et à pétrole Nomb. Capacité totale H.P. |
| - - - - | - - - - | 1 750 20 115,020 | 2 1,560 15 89,890 | - - 5 3,692 | |
| 6 825 | 2 640 | 120 27,030 | 9 641 | 32 6,072 | |
| 1,592,008 52.48 205 1,592,008 | 150,095 4.95 24 150,095 | 124,996 4.12 151 124,682 | 81,936 2.70 17 80,739 | 48,000 1.58 56 48,000 | <u>CAPACITE DES DYNAMOS</u> Kv.A. Pourcentage du total pour le Canada Dynamos, C.A. Nomb. Capacité totale Kv.A. Dynamos, C.D. Nomb. Capacité totale Kw. |
| - - | - - | 13 514 | 5 1,197 | - - | |
| 1,935,585 25.49 511 1,935,585 | 355,600 4.69 40 355,600 | 72,000 0.95 5 72,000 | 32,750 1.09 10 62,750 | 365,115 4.81 64 365,113 | <u>USINES HYDRAULIQUES</u> <u>CAPACITE TOTALE DES DYNAMOS</u> Kv.A. Pourcentage du total pour le Canada Dynamos, C.A. Nomb. Capacité totale Kv.A. Dynamos, C.D. Nomb. Capacité totale Kw. |
| - - | - - | - - | - - | - - | |
| 862 0.21 9 862 | 1,465 0.37 10 1,465 | 149,657 37.57 157 148,751 | 94,161 25.51 99 92,706 | 15,480 3.87 57 15,450 | <u>USINES A COMBUSTIBLE</u> <u>CAPACITE TOTALE DES DYNAMOS</u> Kv.A. Pourcentage du total pour le Canada Dynamos, C.A. Nomb. Capacité totale Kv.A. Dynamos, C.D. Nomb. Capacité totale Kw. |
| - - | - - | 54 926 | 24 1,455 | 3 30 | |

X - Une station hydraulique préalablement mentionnée sous le titre Manitoba se trouve maintenant sous celui de Saskatchewan.

TABLE 12 - ELECTRIC ENERGY GENERATED, 1947

| | Canada | Prince Edward Island | Mova Scotia | New Brunswick | Quebec |
|---|-------------|----------------------------|----------------|------------------|---------|
| ALL STATIONS | | | | | |
| Total Kilowatt hours generated | (thousands) | 43,424,799 | 20,582 | 617,111 | 592,458 |
| Per cent of total for Canada | | 100.00 | 0.05 | 1.42 | 1.36 |
| Kilowatt hours generated by non-generating stations | (thousands) | 679 | - | - | 497 |
| Kilowatt hours generated by generating stations | (thousands) | 43,424,120 | 20,582 | 617,111 | 591,961 |
| Kv.A. capacity of generating stations | | 8,119,644 | 7,045 | 170,851 | 140,082 |
| Ratio of output to maximum capacity | p.c. | 61.05 | 55.03 | 41.23 | 48.24 |
| Average kilowatt hours per Kv.A. | | 5,348 | 2,893 | 5,612 | 4,226 |
| GENERATING STATIONS | | | | | |
| COMMERCIAL STATIONS | | | | | |
| TOTAL | | | | | |
| Kilowatt hours generated | (thousands) | 27,865,417 | 16,668 | 850,288 | 458,460 |
| Kv.A. capacity | | 5,019,256 | 5,559 | 96,961 | 103,285 |
| Ratio of output to maximum capacity | p.c. | 62.92 | 34.22 | 41.24 | 48.46 |
| Average kilowatt hours per Kv.A. | | 5,512 | 2,998 | 5,613 | 4,245 |
| Hydraulic Stations | | | | | |
| Kilowatt hours generated | (thousands) | 27,227,499 | 556 | 90,847 | 396,322 |
| Kv.A. capacity | | 4,867,591 | 586 | 19,758 | 80,025 |
| Ratio of output to maximum capacity | p.c. | 65.88 | 16.44 | 52.55 | 56.55 |
| Average kilowatt hours per Kv.A. | | 5,594 | 1,440 | 4,603 | 4,952 |
| Fuel Stations | | | | | |
| Kilowatt hours generated | (thousands) | 437,918 | 16,112 | 259,441 | 42,138 |
| Kv.A. capacity | | 151,865 | 5,175 | 77,223 | 23,260 |
| Ratio of output to maximum capacity | p.c. | 32.92 | 35.56 | 38.36 | 20.68 |
| Average kilowatt hours per Kv.A. | | 2,884 | 3,115 | 3,560 | 1,812 |
| MUNICIPAL STATIONS | | | | | |
| TOTAL | | | | | |
| Kilowatt hours generated | (thousands) | 15,758,703 | 5,714 | 266,825 | 153,501 |
| Kv.A. capacity | | 5,100,588 | 1,486 | 75,870 | 36,807 |
| Ratio of output to maximum capacity | p.c. | 58.03 | 28.53 | 41.23 | 47.60 |
| Average kilowatt hours per Kv.A. | | 5,083 | 2,499 | 5,612 | 4,170 |
| Hydraulic Stations | | | | | |
| Kilowatt hours generated | (thousands) | 15,161,422 | - | 258,557 | 26,787 |
| Kv.A. capacity | | 2,651,765 | - | 67,507 | 11,989 |
| Ratio of output to maximum capacity | | 60.70 | - | 43.72 | 25.50 |
| Average kilowatt hours per Kv.A. | | 5,517 | - | 5,850 | 2,234 |
| Fuel Stations | | | | | |
| Kilowatt hours generated | (thousands) | 597,281 | 3,714 | 8,286 | 126,714 |
| Kv.A. capacity | | 248,625 | 1,486 | 6,363 | 24,018 |
| Ratio of output to maximum capacity | p.c. | 27.42 | 28.53 | 14.85 | 58.29 |
| Average kilowatt hours per Kv.A. | | 2,402 | 2,499 | 1,299 | 5,106 |
| TOTAL HYDRAULIC STATIONS | | | | | |
| Kilowatt hours generated | (thousands) | 42,588,921 | 556 | 549,404 | 423,109 |
| Kv.A. capacity | | 7,719,154 | 586 | 87,245 | 92,014 |
| Ratio of output to maximum capacity | p.c. | 62.68 | 16.44 | 45.72 | 52.49 |
| Average kilowatt hours per Kv.A. | | 5,491 | 1,440 | 4,005 | 4,598 |
| Kilowatt hours generated by water power | (thousands) | 42,273,167 | 556 | 549,403 | 420,510 |
| Kilowatt hours generated by auxiliary plants | (thousands) | 115,754 | - | 1 | 2,599 |
| TOTAL FUEL STATIONS | | | | | |
| Kilowatt hours generated | (thousands) | 1,055,199 | 19,826 | 267,707 | 168,852 |
| Kv.A. capacity | | 400,490 | 6,659 | 85,586 | 48,078 |
| Ratio of output to maximum capacity | p.c. | 29.51 | 53.98 | 56.56 | 40.09 |
| Average kilowatt hours per Kv.A. | | 2,585 | 2,977 | 3,203 | 3,512 |
| CONSUMPTION OF ELECTRIC ENERGY (Thousands of kilowatt hours) | | | | | |
| Total kilowatt hours generated | | 43,424,799 | 20,582 | 617,111 | 592,458 |
| Kilowatt hours imported from the United States | | 55,057 | - | - | 11 |
| Kilowatt hours imported from other provinces | | - | - | - | 7,496 |
| Kilowatt hours exported to the United States | | 2,066,487 | - | - | 59,530 |
| Kilowatt hours exported to other provinces | | - | - | - | x 4,290 |
| KILOWATT HOURS FOR CONSUMPTION IN CANADA (thousands) | | | | | |
| Domestic service | | 41,411,549 | 20,582 | 617,111 | 560,455 |
| Commercial light | | 4,585,222 | 6,917 | 94,155 | 65,728 |
| Small power | | 2,060,614 | 3,458 | 51,095 | 59,414 |
| Large power | | 29,555,660 | 1,280 | 550,440 | 392,715 |
| Municipal power | | 695,528 | 2,877 | 5,940 | 1,688 |
| Street lighting | | 245,442 | 435 | 6,447 | 5,329 |
| Free service (other than street lighting) | | 68,527 | 22 | 5,684 | 228 |
| Losses | | 5,741,806 | 4,451 | 75,039 | 41,179 |

* Excludes exports to other provinces and/or to the United States.

x - Exports of Quebec power to U.S.A. through Ontario are credited to Ontario.

TABLEAU 12 - ENERGIE ELECTRIQUE GENEREE, 1947

| Ontario | Manitoba | Saskat-chewan | Alberta | British Columbia and Yukon | | |
|---|--|---|--|--|--|---|
| TOUTES USINES | | | | | | |
| 11,191,693 25.77 107 | 2,051,754 4.68 75 | 762,882 1.76 | 641,531 1.48 | 1,637,017 5.77 | Total kw. heure générés (milliers) | |
| 11,191,586 | 2,051,679 | 762,882 | 641,531 | 1,637,017 | Pourcentage du total pour le Canada | |
| 1,970,697 64.85 5,679 | 370,813 62.55 5,479 | 221,657 39.29 3,442 | 193,573 57.82 3,513 | 418,775 44.62 3,909 | Kilowatt-heure générés par les usines non-génératerices (milliers) | |
| | | | | | Kilowatt-heure générés par les usines génératrices (milliers) | |
| | | | | | Capacité des usines génératrices en Kv.A. | |
| | | | | | Proportion de la production à la capacité maximum p.c. | |
| | | | | | Moyenne de kilowatt-heure par Kv.A. | |
| USINES GENERATRICES | | | | | | |
| USINES COMMERCIALES | | | | | | |
| TOTAL | | | | | | |
| 2,274,149 552,439 75.66 6,453 | 1,279,288 206,968 70.56 6,181 | 520,137 96,661 61.43 5,381 | 451,942 111,637 44.17 3,869 | 1,574,281 367,408 48.92 4,285 | Kilowatt-heure générés (milliers) | |
| | | | | | Capacité en Kv.A. | |
| | | | | | Proportion de la production à la capacité maximum p.c. | |
| | | | | | Moyenne de kilowatt-heure par Kv.A. | |
| Usines Hydrauliques | | | | | | |
| 2,275,616 552,224 75.69 6,455 | 1,277,515 206,100 70.78 6,199 | 465,059 72,000 75.41 6,451 | 402,397 99,412 46.21 4,048 | 1,545,784 359,565 49.01 4,295 | Kilowatt-heure générés (milliers) | |
| | | | | | Capacité en Kv.A. | |
| | | | | | Proportion de la production à la capacité maximum p.c. | |
| | | | | | Moyenne de kilowatt-heure par Kv.A. | |
| Usines à combustible | | | | | | |
| 551 215 28.20 2,470 | 1,773 868 23.52 2,045 | 57,078 24,661 26.43 2,515 | 29,545 12,225 27.59 2,417 | 30,497 7,843 44.38 3,888 | Kilowatt-heure générés (milliers) | |
| | | | | | Capacité en Kv.A. | |
| | | | | | Proportion de la production à la capacité maximum p.c. | |
| | | | | | Moyenne de kilowatt-heure par Kv.A. | |
| USINES MUNICIPALES | | | | | | |
| TOTAL | | | | | | |
| 8,917,457 1,618,258 62.91 5,511 | 752,591 163,845 52.42 4,592 | 242,745 124,996 22.17 1,942 | 209,389 81,936 29.18 2,556 | 62,736 51,587 13.94 1,221 | Kilowatt-heure générés (milliers) | |
| | | | | | Capacité en Kv.A. | |
| | | | | | Proportion de la production à la capacité maximum p.c. | |
| | | | | | Moyenne de kilowatt-heure par Kv.A. | |
| Usines Hydrauliques | | | | | | |
| 8,915,709 1,617,611 62.92 5,512 | 751,053 163,250 52.52 4,601 | - - | - <td>-</td> <td>59,626 45,750 15.57 1,564</td> <td>Kilowatt-heure générés (milliers)</td> | - | 59,626 45,750 15.57 1,564 | Kilowatt-heure générés (milliers) |
| | | | | | Capacité en Kv.A. | |
| | | | | | Proportion de la production à la capacité maximum p.c. | |
| | | | | | Moyenne de kilowatt-heure par Kv.A. | |
| Usines à combustible | | | | | | |
| 1,728 647 30.49 2,671 | 1,558 595 25.67 2,249 | 242,745 124,996 22.17 1,942 | 209,389 81,936 29.18 2,556 | 5,110 7,657 4.65 407 | Kilowatt-heure générés (milliers) | |
| | | | | | Capacité en Kv.A. | |
| | | | | | Proportion de la production à la capacité maximum p.c. | |
| | | | | | Moyenne de kilowatt-heure par Kv.A. | |
| TOUTES USINES HYDRAULIQUES | | | | | | |
| 11,189,327 1,967,835 64.84 5,680 | 2,028,568 369,350 72.000 5,492 | 465,059 72,000 75.41 6,451 | 402,397 99,412 46.21 4,048 | 1,603,410 403,295 45.59 3,976 | Kilowatt-heure générés (milliers) | |
| | | | | | Capacité en Kv.A. | |
| | | | | | Proportion de la production à la capacité maximum p.c. | |
| | | | | | Moyenne de kilowatt-heure par Kv.A. | |
| 11,182,693 6,634 | 2,028,541 27 | 465,059 - | 580,569 21,828 | 1,520,909 82,501 | Kilowatt-heure générés par force motrice hydraulique (milliers) | |
| | | | | | Kilowatt-heure générés par les usines auxiliaires (milliers) | |
| TOUTES USINES A COMBUSTIBLE | | | | | | |
| 2,259 862 29.92 2,621 | 5,111 1,463 24.27 2,126 | 299,828 149,657 22.87 2,003 | 238,934 94,161 28.97 2,538 | 33,607 15,480 24.78 2,171 | Kilowatt-heure générés (milliers) | |
| | | | | | Capacité en Kv.A. | |
| | | | | | Proportion de la production à la capacité maximum p.c. | |
| | | | | | Moyenne de kilowatt-heure par Kv.A. | |
| CONSOMMATION D'ENERGIE ELECTRIQUE (En Milliers de Kw.R.) | | | | | | |
| 11,191,693 - 5,687,218 x 2,020,380 1,139 | 2,051,754 598 6,056 1,810 - 6,056 | 762,882 60 - - 6,056 | 641,531 171 5,228 - - | 1,637,017 51,979 - 477 5,228 | Total de kilowatt-heure générés | |
| | | | | | Kilowatt-heure importés des Etats-Unis | |
| | | | | | Kilowatt-heure importés d'autres provinces | |
| | | | | | Kilowatt-heure exportés aux Etats-Unis | |
| | | | | | Kilowatt-heure exportés à d'autres provinces | |
| KILOWATT-HEURE CONSOMMÉS AU CANADA | | | | | | |
| 14,657,592 2,555,594 966,949 251,452 | 2,036,598 501,744 149,851 72,479 | 756,886 76,152 52,345 55,254 | 646,730 88,566 77,081 46,260 | 1,685,291 526,251 205,790 62,769 | Grosse force motrice | |
| | | | | | Energie (municipale) | |
| | | | | | Eclairage commercial | |
| | | | | | Petite force motrice | |
| 9,037,450 366,551 118,558 1,596 1,581,682 | 697,120 128,520 25,958 235 262,711 | 508,758 16,421 6,635 196 65,129 | 524,057 17,561 12,297 3,894 77,634 | 792,465 5,150 26,045 5,690 265,155 | Service gratuit (autre que l'éclairage des rues) | |
| | | | | | Parties | |

* Exclus les exportations par d'autres provinces et/ou aux Etats-Unis.

x - Les exportations d'énergie électrique du Québec aux Etats-Unis par l'Ontario sont rapportées sous le titre Ontario.

TABLE 13 - FUEL, 1947

| | Bituminous Coal | | | |
|--------------------------------|----------------------|-----------------|----------------------|-----------------|
| | Charbon Bitumineux | | | |
| | Canadian - Canadien | | Imported - Importé | |
| | Quantity Quantité | Value Valeur | Quantity Quantité | Value Valeur |
| | Tons Tonnes | \$ | Tons Tonnes | \$ |
| CANADA | x 584,625 | x 3,521,206 | 10,753 | 141,469 |
| Prince Edward Island | 1,249 | 14,093 | - | - |
| Nova Scotia | 205,712 | 1,395,931 | 10,340 | 137,443 |
| New Brunswick | 132,652 | 1,048,065 | - | - |
| Quebec | 414 | 4,052 | 138 | 1,607 |
| Ontario | - | - | 275 | 2,419 |
| Manitoba | - | - | - | - |
| Saskatchewan | x 124,904 | x 522,218 | - | - |
| Alberta | x 95,728 | x 196,341 | - | - |
| British Columbia and Yukon ... | x 23,966 | x 140,506 | - | - |
| Fuel Oil and Diesel Oil | | | | |
| Mazout et huile diesel | | | | |
| | Quantity Quantité | Value Valeur | Quantity Quantité | Value Valeur |
| | Gal. Gal. | \$ | Cords Cordes | \$ |
| CANADA | 29,705,033 | 2,300,391 | - | - |
| Prince Edward Island | 2,992,773 | 237,083 | - | - |
| Nova Scotia | 306,263 | 37,657 | - | - |
| New Brunswick | 748,948 | 82,163 | - | - |
| Quebec | 218,818 | 55,261 | - | - |
| Ontario | 413,168 | 63,109 | - | - |
| Manitoba | 174,259 | 59,745 | - | - |
| Saskatchewan | 16,616,086 | 1,008,102 | - | - |
| Alberta | 946,356 | 149,246 | - | - |
| British Columbia and Yukon ... | 7,288,362 | 650,025 | - | - |

Note: Tons = 2,000 lbs.

Gallons = Imperial

Cords = 128 cu.ft.

x - Includes sub-bituminous coal

TABLEAU 13 - COMBUSTIBLE, 1947

| Lignite Coal Charbon Lignite | | Gasoline | | Kerosene | |
|----------------------------------|-----------------|--------------------------------|-----------------|---------------------------------|-----------------|
| Canadian - Canadien | | Gasoline | | Kérosene | |
| Quantity Quantité | Value Valeur | Quantity Quantité | Value Valeur | Quantity Quantité | Value Valeur |
| Tons Tonnes | \$ | Gal. Gal. | \$ | Gal. Gal. | \$ |
| 224,512 | 530,399 | 46,055 | 12,129 | 323 | 74 |
| - | - | 20,569 | 5,593 | - | - |
| - | - | - | - | 323 | 74 |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| 47,192 | 75,057 | 19,948 | 5,193 | - | - |
| 177,320 | 457,342 | 5,472 | 1,295 | - | - |
| - | - | 64 | 48 | - | - |
| Manufactured Gas Gaz fabriqué | | Natural Gas Gaz naturel | | Other Fuel Autre combustible | |
| Quantity Quantité | Value Valeur | Quantity Quantité | Value Valeur | Value Valeur | Value Valeur |
| 1,000 cu. ft. 1,000 pds.cu. | \$ | 1,000 cu. ft. 1,000 pds.cu. | \$ | \$ | \$ |
| 11,278,804 | 205,274 | 1,356,146 | 117,620 | 55,843 | 6,684,405 |
| - | - | - | - | - | 256,769 |
| 11,278,804 | 205,274 | - | - | 3,467 | 1,779,846 |
| - | - | - | - | - | 1,130,228 |
| - | - | - | - | - | 38,920 |
| - | - | - | - | - | 65,528 |
| - | - | - | - | 29,797 | 69,542 |
| - | - | - | - | 1,976 | 1,610,546 |
| - | - | 1,356,146 | 117,620 | 247 | 922,091 |
| - | - | - | - | 20,356 | 810,935 |

Note: Tonne - 2,000 livres
 Gallon - Impérial
 Corde - 128 pds. cu.

TABLE 6A- EXPENSES, 1946 (Revised ^b)

| | Canada | Prince Edward Island | Nova Scotia | New Brunswick | Quebec |
|---|----------------|----------------------------|----------------|------------------|---------------|
| TOTAL EXPENSES | \$ 156,708,176 | \$ 457,111 | \$ 7,847,338 | \$ 5,790,142 | \$ 40,755,586 |
| Per cent of total for Canada | 100.00 | 0.29 | 5.01 | 2.42 | 26.00 |
| Salaries and wages | 52,380,686 | 161,725 | 2,291,688 | 1,457,120 | 13,100,755 |
| Fuel | 5,585,206 | 217,756 | 1,403,553 | 808,850 | 64,464 |
| Taxes (x) | 22,169,479 | 75,499 | 967,596 | 213,463 | 12,099,181 |
| Cost of power | 76,572,805 | 2,135 | 3,184,501 | 1,330,709 | 15,488,956 |
| TOTAL FOR COMMERCIAL STATIONS | 67,664,274 | 411,831 | 5,887,690 | 1,682,155 | 29,952,510 |
| Salaries and wages | 19,630,478 | 142,343 | 1,441,464 | 467,492 | 9,412,815 |
| Fuel | 3,304,399 | 191,858 | 1,273,169 | 261,934 | 11,541 |
| Taxes (x) | 19,009,251 | 75,499 | 901,852 | 213,044 | 10,493,954 |
| Cost of power | 25,720,146 | 2,135 | 2,271,205 | 759,685 | 10,034,220 |
| Non-generating stations | 12,848,252 | 2,135 | 931,699 | 966,532 | 165,725 |
| Generating stations | 54,816,022 | 409,698 | 4,955,991 | 715,623 | 29,786,787 |
| Hydraulic stations | 47,019,887 | 11,140 | 614,043 | 247,649 | 29,761,233 |
| Fuel stations | 7,796,135 | 398,558 | 4,341,948 | 467,974 | 25,554 |
| TOTAL FOR MUNICIPAL STATIONS | 89,043,902 | 45,280 | 1,959,648 | 2,107,987 | 10,800,826 |
| Salaries and wages | 32,750,208 | 19,380 | 850,224 | 969,628 | 3,687,940 |
| Fuel | 2,280,807 | 25,900 | 130,384 | 546,896 | 52,923 |
| Taxes (x) | 3,160,228 | - | 65,744 | 439 | 1,605,247 |
| Cost of power | 50,852,659 | - | 913,296 | 591,024 | 5,454,716 |
| Non-generating stations | 43,151,080 | - | 883,189 | 565,757 | 644,560 |
| Generating stations | 45,892,822 | 45,280 | 1,076,459 | 1,542,230 | 10,156,266 |
| Hydraulic stations | 40,960,296 | - | 655,501 | 87,691 | 10,088,677 |
| Fuel stations | 4,932,526 | 45,280 | 422,958 | 1,454,559 | 67,589 |
| TOTAL EXPENSES FOR NON-GENERATING STATIONS | 55,999,532 | 2,135 | 1,814,888 | 1,552,289 | 810,285 |
| Salaries and wages | 11,639,743 | - | 445,659 | 505,261 | 247,146 |
| Fuel | 8,558 | - | 56 | - | - |
| Taxes (x) | 1,986,046 | - | 145,902 | 66,886 | 10,256 |
| Cost of power | 42,365,185 | 2,135 | 1,225,271 | 1,162,142 | 552,901 |
| TOTAL EXPENSES FOR GENERATING STATIONS | 100,708,844 | 454,978 | 6,032,450 | 2,257,855 | 39,943,053 |
| Salaries and wages | 40,740,943 | 161,725 | 1,848,029 | 1,155,859 | 12,855,609 |
| Fuel | 5,576,848 | 217,756 | 1,403,497 | 808,850 | 64,464 |
| Taxes (x) | 20,183,455 | 75,499 | 821,694 | 146,597 | 12,088,945 |
| Cost of power | 34,207,620 | - | 1,959,250 | 168,567 | 14,936,055 |
| Hydraulic stations | 87,980,185 | 11,140 | 1,267,544 | 335,340 | 39,849,910 |
| Fuel stations | 12,728,661 | 443,858 | 4,764,906 | 1,922,513 | 95,143 |

(x) Sales tax not included (see page 8).

^a Includes only the four items listed.^b Revised to include salaries and wages paid for construction work done by own employees.

TABLEAU 6A - / DEPENSES, 1948 (Revisé ⁶)

| Ontario | Manitoba | Saskatchewan | Alberta | British Columbia and Yukon | |
|------------|-----------|--------------|-----------|----------------------------|---|
| \$ | \$ | \$ | \$ | \$ | |
| 74,777,922 | 4,186,585 | 4,265,126 | 4,725,992 | 15,906,626 | <u>TOTAL DES DEPENSES</u> |
| 47.72 | 2.67 | 2.72 | 3.02 | 10.15 | Pourcentage du total pour le Canada |
| 24,785,957 | 2,952,442 | 1,413,724 | 1,686,745 | 4,552,532 | Salaires et gages |
| 75,976 | 65,405 | 1,567,781 | 811,335 | 770,106 | Combustible |
| 2,973,596 | 271,707 | 460,902 | 1,075,799 | 4,035,716 | Taxes (x) |
| 46,944,393 | 897,029 | 1,020,719 | 1,154,115 | 6,550,272 | Achat d'énergie électrique |
| 9,578,773 | 1,808,584 | 1,479,589 | 2,298,563 | 14,564,829 | <u>TOTAL POUR LES USINES COMMERCIALES</u> |
| 1,618,101 | 1,089,755 | 511,543 | 1,028,972 | 3,918,015 | Salaires et gages |
| 9,977 | 18,632 | 489,653 | 357,041 | 710,596 | Combustible |
| 2,008,353 | 159,061 | 591,765 | 756,759 | 4,009,004 | Taxes (x) |
| 5,942,362 | 540,958 | 86,578 | 175,791 | 5,927,214 | Achat d'énergie électrique |
| 2,454,917 | 579,815 | 5,568 | 50,955 | 7,712,912 | Usines non-génératrices |
| 7,143,856 | 1,228,571 | 1,475,971 | 2,247,608 | 6,851,917 | Usines génératrices |
| 7,125,093 | 1,174,115 | - | 1,457,232 | 6,629,384 | Usines hydrauliques |
| 18,763 | 54,458 | 1,475,971 | 790,376 | 222,533 | Usines à combustible |
| 65,199,149 | 2,378,199 | 2,785,587 | 2,427,429 | 1,341,797 | <u>TOTAL POUR LES USINES MUNICIPALES</u> |
| 25,165,856 | 1,862,709 | 902,181 | 657,773 | 634,517 | Salaires et gages |
| 65,999 | 46,775 | 878,128 | 474,294 | 59,510 | Combustible |
| 965,265 | 112,646 | 69,157 | 517,040 | 24,712 | Taxes (x) |
| 41,002,051 | 556,071 | 934,141 | 978,322 | 623,058 | Achat d'énergie électrique |
| 57,266,698 | 797,579 | 958,153 | 1,458,492 | 576,652 | Usines non-génératrices |
| 27,952,451 | 1,580,620 | 1,825,434 | 968,957 | 765,145 | Usines génératrices |
| 27,886,517 | 1,557,482 | - | - | 706,428 | Usines hydrauliques |
| 45,934 | 43,138 | 1,825,434 | 968,957 | 58,717 | Usines à combustible |
| 39,701,615 | 1,377,392 | 961,721 | 1,509,447 | 8,289,564 | <u>TOTAL DES DEPENSES DES USINES NON-GENERATRICES</u> |
| 7,686,669 | 464,555 | 125,096 | 282,167 | 2,087,210 | Salaires et gages |
| 85 | - | - | - | 8,219 | Combustible |
| 516,582 | 15,828 | 68,850 | 214,025 | 1,147,757 | Taxes (x) |
| 51,698,281 | 897,029 | 767,795 | 1,013,255 | 5,046,378 | Achat d'énergie électrique |
| 35,076,307 | 2,809,191 | 5,301,405 | 3,216,545 | 7,617,062 | <u>TOTAL DES DEPENSES DES USINES GENERATRICES</u> |
| 17,097,288 | 2,487,907 | 1,288,628 | 1,404,578 | 2,465,522 | Salaires et gages |
| 75,893 | 65,405 | 1,567,781 | 811,335 | 761,887 | Combustible |
| 2,657,014 | 255,879 | 392,072 | 859,774 | 2,885,959 | Taxes (x) |
| 15,246,112 | - | 252,924 | 140,858 | 1,505,894 | Achat d'énergie électrique |
| 35,011,610 | 2,711,595 | - | 1,457,232 | 7,355,812 | Usines hydrauliques |
| 64,697 | 97,596 | 5,301,405 | 1,759,315 | 281,250 | Usines à combustible. |

⁶ Ne comprend que les quatres items énumérés.

(x) Taxe des ventes non comprises (Voir p. 8).

Revisé de façon à inclure les traitements et salaires payés pour du travail de construction effectué par ses propres employés.

BUREAU FEDERAL DE LA STATISTIQUE

MINISTERE DU COMMERCE

| DATE DUE DATE DE RETOUR | |
|----------------------------|----------|
| JAN 6 1984 | 220-00FC |
| NOV - 1 1984 | 220-50FC |
| LOWE-MARTIN No. 1437 | |

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RECENSEMENT DE L'INDUSTRIE

1947

CENTRALES ELECTRIQUES

AU CANADA

