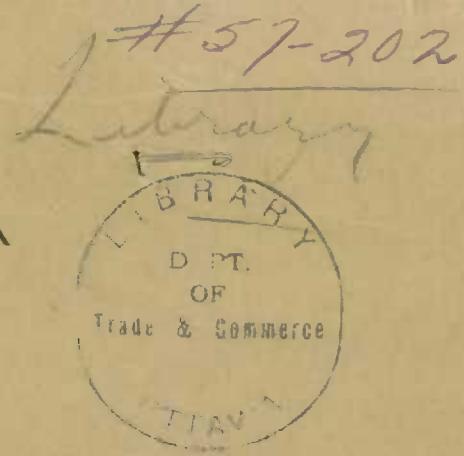


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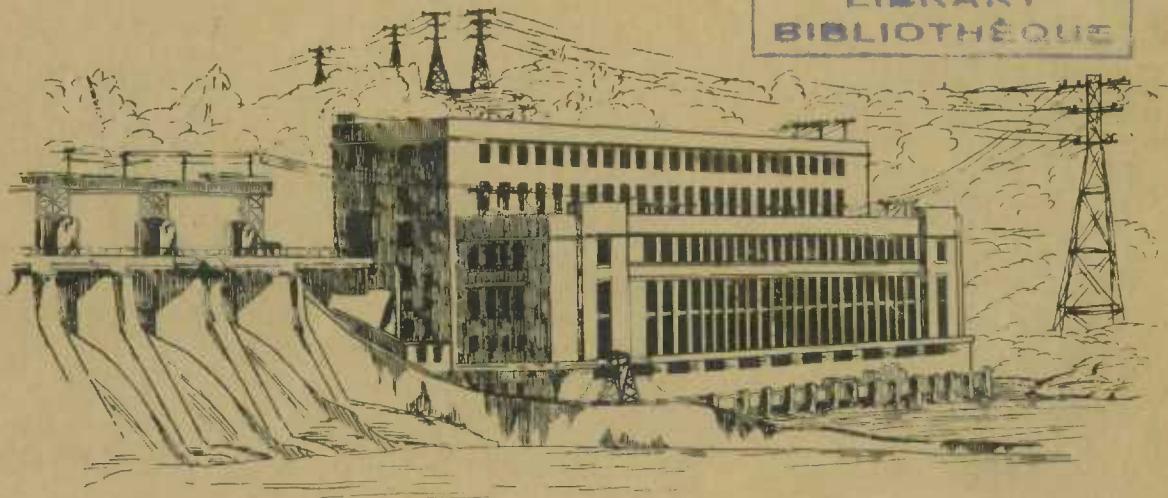
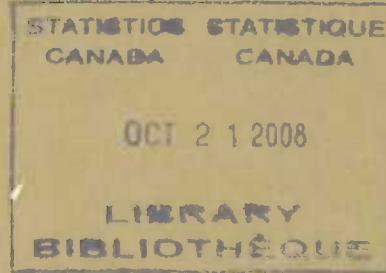
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GOVERNMENT OF CANADA



# CENTRAL ELECTRIC STATIONS

1950



EDMOND CLOUTIER, C.M.G., Q.A., D.S.P.  
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## THE CENTRAL ELECTRIC STATION INDUSTRY

1950

### Introduction

For purposes 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 (or publicly-owned), - 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 2,214,000 kilowatt hours during 1950. This explains the rather anomalous item in table 12 showing the output of "non-generating" stations.

Included in the report are statistics covering a few stations concerned primarily with other industries, such as mining, manufacturing of pulp and paper, etc., and 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 the drop in the number of units listed for commercial stations as compared with years prior to 1947 and a rise in some provinces in the average number of kw.hrs. generated per H.P. and per K.V.A. as shown in table 12. This applies especially in Saskatchewan, Alberta and in the Yukon and Northwest Territories.

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 for 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 the smaller stations and shows the net amount of power generated<sup>x</sup> by reporting stations, whereas the annual excludes all power for company use. Further, for long term comparability, the monthly report retains the West Kootenay plants which were dropped from the annual in 1947, as their entire output was taken over by the purchasing company and is reported under the metal smelting and refining industry.

During 1950 primary power consumed in Canada (including all line losses) increased from 39,853,044,000 kilowatt hours in 1949 to 43,677,058,000 kilowatt hours, or by 9.6 per cent, while the consumption of secondary power rose from 2,839,982,000 kilowatt hours in 1949 to 2,893,384,000 or by only 1.9 p.c., reflecting the heavy demand for a steady supply of power.

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 often 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.

<sup>x</sup> Output less station use.

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 or interconnections 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 electric energy for the boilers can be tolerated without much inconvenience. Secondary sales are confined mainly to Quebec, Ontario and Manitoba, with Quebec using over 65 p.c. of the total secondary consumed in Canada during 1950.

Based on monthly reports, the consumption of primary power has continued to increase steadily since September of 1946 and is currently running about 75 p.c. above that month. Deliveries of secondary power had risen to a peak in 1946 but post war industrial activity and rearmament plus a steadily rising domestic demand reduced the amount of secondary power available to relatively low levels, with only 2,893,384,000 kilowatt hours consumed in Canada in 1950 and 3,136,712,000 in 1951. During 1952 a minor advance in secondary use is indicated over 1951 with the near record addition of new hydro and thermal plant capacity during 1951 and a currently good water supply, although increasing industrial and domestic requirements still threaten to strain existing facilities, particularly in Southern Ontario, where a vast expansion project is underway at Niagara.

During 1950, as illustrated on page 3, the pulp and paper industry continued as the largest overall consumer of electrical energy although the metal smelting and refining industry, of which the aluminium group is the leader, surpassed the pulp and paper industry as a customer of the central electric stations. Some 17.44 p.c. of central station output was delivered to the pulp and paper group compared with 17.94 p.c. in 1949, whereas the metal smelting and refining took 18.7 p.c. during 1950 against 19.2 p.c. in 1949. Residential customers used 6,750,303,000 kilowatt hours in 1950 compared with 5,678,847,000 in 1949 and some 192 p.c. above the 2,310,891,000 kilowatt hours used in 1939 - a remarkable growth in the period. Average used per domestic or residential customer rose 69.5 p.c. in the same comparison.

The net output of electric energy for secondary use in Canada each month is shown below:

SECONDARY POWER FOR USE IN CANADA

(Thousands of Kilowatt Hours)

Month	1946	1947	1948	1949	1950
January	680,016	591,531	227,866	143,678	169,819
February	645,940	566,473	211,963	136,002	194,374
March	728,074	629,033	167,122	157,140	209,277
April	735,281	539,236	255,006	453,584	223,511
May	758,487	574,708	433,290	499,246	422,344
June	679,995	546,714	216,772	382,419	439,123
July	669,444	485,508	150,748	199,735	327,276
August	661,116	385,453	147,229	124,006	200,387
September	589,653	362,825	111,420	137,703	127,020
October	641,481	434,161	114,191	228,065	153,273
November	649,611	265,024	126,923	189,875	171,910
December	628,389	215,678	141,457	188,529	255,070
TOTAL	8,067,487	5,595,344	2,303,987	2,839,982	2,893,384

For the following table, data covering the first 7 groups were taken from the industrial census reports on the industries; the consumption for "other industries" was computed by deduction, and consequently is only approximate. Ferro-alloys and steel furnaces are included under the heading of Primary Iron and Steel, which also covers pig iron and rolling mills. Purchases and generation of mining companies, previously with "other industries", have been segregated since 1949.

DISTRIBUTION AND CONSUMPTION OF ELECTRIC ENERGY GENERATED, 1950  
(Thousands of Kilowatt Hours)

Industries	Central Electric Station Power Purchased		Power Generated by the Industries for own use
	Total Central Electric Stn. Power	P. C. of Total Production	
Pulp and Paper .....	8,456,863	17.44	3,949,244
Primary Iron and Steel .....	1,721,541	3.55	148,864
Abrasives .....	725,705	1.50	-
Chemicals .....	2,455,241	5.06	117,578
Metal, Smelting & Refining .....	9,044,617	18.65	700,035
Other Manufacturing .....	5,077,992	10.47	1,350,330
Total Manufacturing .....	27,481,959	56.67	6,266,051
Mining .....	2,265,868	4.67	264,232
Other Industries .....	1,175,158	2.42	
Domestic Service (Residential) .....	6,750,303	13.92	
Commercial Lighting .....	2,809,459	5.79	
Municipal Power .....	781,547	1.61	
Street Lighting .....	303,276	0.63	
Free Service .....	85,914	0.18	
Exports to U.S.A. .....	1,925,867	3.97	
Losses .....	4,914,367	10.14	
TOTAL OUTPUT OF CENTRAL ELECTRIC STATIONS	48,493,718	100.00	

Electricity is exported from Canada only under licence granted by the Standards Branch of the Department of Trade and Commerce, and the same has jurisdiction over the export duty, which has been imposed since April 1, 1925. During the calendar year ended December 31, 1950, this export duty amounted to \$553,825.39. The rate on electric energy exported is three one-hundredths of one cent per kilowatt hour.

Following is a table showing the quantities of power exported for the calendar years 1949 and 1950. The data for this table were compiled from the reports of the Director of the Standards Branch, Department of Trade and Commerce.

KILOWATT HOURS EXPORTED TO THE UNITED STATES

(Calendar Years 1949 and 1950)

Company	Exported	Exported
	1949	1950
	Kw. Hrs.	Kw. Hrs.
Hydro Electric Power Commission of Ontario .....	301,036,700	361,458,100
" " " " " (surplus) - Niagara .	298,762,100	321,400,600
" " " " " " - Cornwall	36,379,000	25,845,000
Quebec Hydro Commission (via Cedar Rapids Transmission) .....	648,903,932	639,464,158
Canadian Niagara Power Company, Ltd. .....	267,902,469	264,955,389
" " " " " (surplus) .....	39,560,210	35,171,279
Ontario and Minnesota Power Company .....	22,069,000	36,867,000
Maine and New Brunswick Electric Power Company .....	37,616,679	40,915,878
British Columbia Electric Railway Company, Ltd. .....	93,898,036	191,878,084
Northport Power and Light Company .....	47,016	51,670
Southern Canada Power Company .....	2,070,212	2,307,880
Northern British Columbia Power Company .....	35,600	22,030
Fraser Companies, Ltd. .....	8,251,000	5,211,900
Detroit and Windsor Subway Company .....	319,800	316,600
Manitoba Power Commission .....	-	1,068
<b>TOTAL .....</b>	<b>1,756,751,754</b>	<b>1,925,866,636</b>

Of the total Canadian output of 48,493,718,000 kilowatt hours in 1950, 46,624,218,000 kilowatt hours, or 96.1 per cent. were produced from water power, whereas only 1,608,069,000 kilowatt hours were produced by plants using only thermal engines and 261,431,000 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 1950, including active and inactive plants, as compiled by the Water Resources Division, Department of Resources and Development, were rated at 12,562,750 horse power an increase of nearly 1 million horsepower in the year. The following table shows the available and developed water power in each province to the end of 1951.

POTENTIAL AND DEVELOPED WATER POWER IN CANADA

Province	Available 24-hour Power at 80% Efficiency - end of 1951		Turbine Installation December 31	
	At Ordinary Minimum Flow	At Ordinary Six Months Flow	1950	1951
	H.P.	H.P.	H.P.	H.P.
Newfoundland .....	1,135,000	2,585,000	262,810	279,160
Prince Edward Island .....	500	3,000	2,299	2,299
Nova Scotia .....	25,500	156,000	150,960	150,960
New Brunswick .....	123,000	334,000	133,111	132,911
Quebec .....	10,898,000	20,219,000	6,372,812	6,755,351
Ontario .....	5,407,000	7,261,000	3,513,840	3,718,505
Manitoba .....	3,333,000	5,562,000	595,200	596,400
Saskatchewan .....	550,000	1,120,000	111,835	111,835
Alberta .....	508,000	1,258,000	107,225	207,825
British Columbia .....	7,023,000	10,998,000	1,284,208	1,358,808
Yukon & Northwest Territories .....	382,500	814,000	28,450	28,450
CANADA.....	29,385,500	50,310,000	12,562,750	13,342,504

The horse power figures based on flow in columns 2 and 3 are estimated only upon rapids, falls and power sites of which the actual drop or head possible of concentration is definitely known or reasonably well established and represent only the minimum possibilities. Many water-powers of greater or less capacity from coast to coast have not yet been recorded, which will considerably increase the totals. With the construction of storage basins and other regulating works, these potential power figures could be further increased. It is common practice, and feasible in most developments, to install equipment with capacity much greater than the theoretical continuous power of the waterfall and on this basis it is estimated that the maximum economic turbine installation capacity of the recorded water-powers of Canada was more than 55,000,000 horse power at the end of 1950. Vast reserves of power beckon industry still farther northward; and the distance that power can be economically transmitted is being increased well beyond 300 miles.

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 power his machine, to drive his tram or train, to bring him music, video and entertainment, to turn night into day, and do a thousand and one things with incredible speed and efficiency. The miracle of electricity has made possible our relatively high standard of living and the tremendous development of the past half century. It has sired our huge pulp and paper, aluminium, chemical, electrical industries, atomic research, and so on. Its magic has opened the wilderness and caused great towns and industries to rise where tiny villages stood. More than any one material factor, abundant electric power has made Canada industrially great and helped immeasurably to preserve us against aggression.

TABLE 1 - (Page 14) - COMPARATIVE SUMMARY, 1939 - 1950

In the period from 1939 to 1950 the revenues of central electric stations have climbed from \$151,880,969 to \$323,833,465, an increase of 113.2 p.c., while electric energy generated advanced from 28,338 million kilowatt hours to nearly 48,494 million or by 71 p.c. The number of customers served also rose appreciably in all classes, with domestic consumers, including farm service, numbering 2,797,378 by 1950, an increase of 1,173,706 or 72 p.c. over the 11 year span. Average consumption rose almost 70 p.c. in a similar comparison for domestic customers.

With the steady expansion of publicly-owned facilities, municipal, provincial and federal systems secured 58.22 p.c. of total revenues for 1950 compared with 39.07 p.c. in 1939. Revenues reported by all distributors from domestic service brought \$109,015,402 for 1950 compared with \$90,302,748 in 1949 and \$43,793,482 in 1939. Commercial lighting produced \$57,367,084 or \$8,292,441 more than in 1949 while large power users, such as paper mills, smelters and factories, paid \$130,399,267 in 1950 against \$116,304,614 during the preceding year.

Expenses reported, which include only the four items - wages, fuel, taxes and cost of power purchased advanced to \$233,475,040 from \$205,130,467 in 1949. Taxes were up \$3,512,435 to \$31,823,530. Details are shown at the top of page 10, indicating a rise in municipal, provincial and federal taxes paid by both commercial and municipal stations over 1949. Salaries and wages totalled \$88,988,681 against \$78,272,815 as employees rose by 1,127 to 32,873. Cost of purchased power (interchanged between stations) increased from \$88,361,915 in 1949 to \$102,176,561. Fuel costs rose to \$10,486,268 from \$10,184,642 with the cost per gallon of fuel oil down a little from 1949.

Pole line mileage continued to advance at 151,726 miles compared with 135,329 miles in 1949 and 113,411 miles in 1948. Customers numbered 3,269,824, an increase of 193,455 or 6.29 p.c. over 1949 and 68 p.c. over the 1939 figure. In the same span the population of Canada rose about 22 p.c. Domestic (including farm) customers represented over 85 p.c. of the national total in 1950.

Generation by all reporting stations during 1950 totalled 48,493,718,000 kilowatt hours, of which 1,925,867,000 were exported to the United States. Imports were only 2,591,000 kilowatt hours sharply down from the three previous years and mainly into British Columbia. Commercial stations generated 28,432,404,000 compared with 26,731,889,000 kilowatt hours in 1949 while municipal stations accounted for 20,061,314,000 or 41.4 p.c. of the national total in 1950 against 39.9 p.c. in the preceding year. New installations and improved precipitation in eastern regions contributed to the general advance over 1949.

However, municipal or publicly-owned 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, such as those of Gatineau Power and MacLaren deliver a large part of their production across the Ottawa River to the Ontario Hydro-Electric Power Commission system. Revenues of municipal stations were \$182,062,239 in 1950 compared with \$141,771,236 for commercial stations and the municipal group had over twice as many customers as the commercial.

The total capacity of primary equipment in central station main plants registered an increase of about 10 p.c. from 1949, advancing from 10,637,798 to 11,703,161 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.

(Note) Some comparisons with years previous to 1947 are affected by the Consolidated Mining and Smelting Company taking over the West Kootenay central electric plants 2, 3, 4 and 5 in British Columbia and absorbing the plants and their output as part of the mining and smelting industrial group.

TABLE 2 - (Page 16) - DOMESTIC SERVICE, 1939 - 1950

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 1939 to 1950, 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 steeply rising prices. This is confirmed by the annual index of cost of electricity for domestic service which dropped from 103.3 in 1939 (on the 1935-39 base of 100) to 90.0 in 1950.

In all provinces the number of domestic customers, including farms, registered encouraging gains during this period, the percentage increases ranging from 53.4 p.c. in Ontario to 105.5 p.c. in New Brunswick. The greater use of electricity is illustrated by the considerable advance in the average kilowatt hours purchased per customer with the Canada total at 2,413 kw. hrs. for 1950 compared with only 1,423 in 1939 - a rise of almost 70 p.c. Ontario's consumption rose over 73 p.c. per domestic customer from an average of 1,909 to 3,317 kw. hrs., but the average bill increased only 48 p.c. The rate of consumption also climbed steadily in all other provinces with the Maritimes, Quebec, Alberta and British Columbia registering large increases. Revenues from domestic sales totalled \$109,015,402 in 1950, 148.9 p.c. or \$65,221,920 above the \$43,793,482 reported for 1939 and \$18,712,654 more than in 1949. The average annual consumption per domestic customer varied widely between provinces, Manitoba still leading with a 1950 average of 4,783 kw. hrs., due mainly to flat rate water heaters, while New Brunswick and Prince Edward Island showed the lowest averages. Ontario was second with 3,317 kw. hrs. followed by British Columbia with 2,182 and Quebec with 1,541 kw. hrs.

Compared with the spectacular growth in consumption, the annual average bills registered moderate year to year increases over the past twelve years. The 1950 average bill stood at \$38.97 against \$26.97 for 1939, an increase of 44 p.c., whereas consumption per customer rose nearly 70 p.c. Provincial bills ranged from \$56.69 for Prince Edward Island to \$27.57 for Newfoundland while average domestic service revenue per kilowatt hour in Canada was 1.61 cents in 1950, little changed from 1949 but 15.3 p.c. under the 1.9 cents per kilowatt hour received in 1939. The bills exclude federal, provincial or municipal taxes on electricity purchased. Prince Edward Island, New Brunswick, Saskatchewan and Alberta average revenues are affected by the higher costs of thermal generation from coal, etc., while the Manitoba revenue is lowest due to the widespread use of flat rate water heaters.

A comparison with other countries shows Canadians enjoy one of the lowest rates per kilowatt hour in the world. In the United States the average revenue per kilowatt hour sold to residential or domestic customers averaged 2.88 cents in 1950 against 1.61 cents per kilowatt hour in Canada. Commercial and industrial sales in the United States fetched 1.4 cents per kilowatt hour compared with 0.6 cents for Canada in the same year.

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 serving 1,132 municipalities is the Ontario Hydro-Electric Power Commission which operated 64 hydraulic plants and 7 fuel-electric generating plants in 1950. The auxiliary or standby plants are thermal power equipment belonging to hydraulic systems or non-generating systems and are not included as generating stations.

Of the 665 plants reporting operations during 1950, 348 were hydraulic, principally in Ontario, Quebec and British Columbia, while 317 were thermal situated mainly in Saskatchewan and Alberta. However, the hydraulic stations generated almost 97 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) power, municipal, mainly used in municipal water pumping stations, (7) sales to distributing companies, and (8) street lighting; and 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 national totals.

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, space heaters, 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 text. 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, excepting those in the Yukon - Northwest Territories, 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, etc.; often different rates apply to these varied 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, unless offset by increases in rates elsewhere. The average revenue of 1.61 cents per kilowatt hour for all domestic service (or 1.54 cents with farm

service excluded) compares with an average of 2.88 cents in the United States, almost 79 p.c. above the Canadian figure. About 71 p.c. of U.S. generation in 1950 was by steam and internal combustion engine compared with only 3.9 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 6,136 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 horsepower purchased. It is probable this output may be 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. This is also true in classes where the generating equipment is credited to other industries. However, 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 other provinces are relatively so small that their effects on the averages would be negligible.

Provincial and municipal taxes on domestic bills, where imposed, have not been included as either revenue or expenses. In Quebec a 2 p.c. provincial tax was in effect while in Saskatchewan and British Columbia a sales tax of 3 p.c. was collected. (For further details see "cost of Electricity for Domestic Service, etc. 1951" published by D. B. S.)

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.

To supplement Table 5, the details of taxes reported by commercial and municipal stations follow on page 10. 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 Federal tax in 1950. 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 Federal 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 was obligated to contribute \$2,240,000 to the provincial Education Fund, which item was not reported as a tax until 1947. Total taxes reported by the industry during 1950, including the contribution of Quebec Hydro, were \$31,823,530. Commercial stations paid about 79 p.c. of the tax total while securing under 44 p.c. of total revenues for the industry.

REPORTED TAXES, 1950

Provinces	Commercial Stations				Municipal or Publicly Owned Stations			
	Municipal	Provincial	Federal	Total Taxes	Municipal	Provincial	Federal	Total Taxes
Newfoundland .....	22,928	27,897	192,960	243,785	-	-	50	50
P. E. Island .....	28,841	4,128	29,778	62,747	-	-	-	-
Nova Scotia .....	407,059	73,639	427,829	908,527	91,311	1,563	2,706	95,580
New Brunswick .....	82,819	30,658	153,171	266,648	1,272	1,537	372	3,181
Quebec .....	2,874,959	4,735,163	7,933,889	15,544,011	747,170	3,175,829	149,505	4,072,504
Ontario .....	448,269	206,621	1,001,773	1,656,663	936,325	127,884	777,776	1,841,985
Manitoba .....	179,774	3,289	16,658	199,721	144,558	-	19,590	164,148
Saskatchewan .....	34,143	10,661	129,932	174,736	97,579	-	-	97,579
Alberta .....	90,527	152,376	1,015,025	1,257,928	323,472	-	4,019	327,491
British Columbia ....	860,831	361,584	3,584,146	4,806,561	73,330	8,630	184	82,144
Yukon & N.W.T. ....	2,379	1,762	13,400	17,541	-	-	-	-
Total .....	5,032,529	5,607,778	14,498,561	25,138,868	2,415,017	3,315,443	954,202	6,684,662
Total-Commercial Stns.	5,032,529	5,607,778	14,498,561	25,138,868				
" -Municipal "	2,415,017	3,315,443	954,202	6,684,662				
Total .....	7,447,546	8,923,221	15,452,763	31,823,530				

TABLE 6 (Pages 24-25) - EMPLOYEES

There was an increase of 1,127 employees during the year with all provinces, excepting Nova Scotia, reporting heavier employment. The total at 32,873 included 11,601 in commercial and 21,272 employees in municipal stations. Some 25,427 were engaged in generating stations and 7,446 in non-generating or distributive organizations. Employment totals are based on the average number of employees per month. The decline in Nova Scotia was mostly in the wage-earner group of Municipal Stations and due in part to a heavier construction program in 1949 than in 1950.

On a provincial basis, 40.4 p.c. of the national total were employed in Ontario, 24.1 p.c. in Quebec, 8.3 p.c. in British Columbia, 0.2 p.c. in Yukon-N.W.T., 15.8 p.c. on the Prairies and 11.2 p.c. in the Atlantic Provinces. Some 11,635 employees were on salaries while 21,238 were on wages. Among the generating stations, hydraulic operations required 21,749 employees, while fuel stations producing but 3.3 p.c. of the electric energy generated during 1950 employed 3,678 persons, indicating one reason for higher unit costs in thermal plants.

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". On Page 11 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. Farm customers added during 1950 totalled 52,861 and the total at 303,727 was up 21.1 p.c. over 1949. Farm and residential 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 the low average revenue per kilowatt hour in Ontario reflects the assistance given by the Ontario Government to this class of service. The number of farm customers in Ontario for years previous to 1944 included rural customers in hamlets. With over 623,000 occupied farms in Canada (on the 1951 Census basis) the total of 303,727 farm customers indicates that over 48 p.c. enjoyed the benefits of power line service at the end of 1950 compared with about four-fifths of the farms in the United States. However, many other Canadian farms generate their own electricity by the use of engines, windmills, etc. The continued extension of farm electrification, represents a great potential market for electrical appliances and equipment, as well as power. Between 1941 and 1951 the number of gasoline engines used for power purposes on Canadian farms increased 9 per cent from 168,225 to 183,041. At the same time the number of electric motors rose 238 per cent from 58,192 to 196,681. Electricity is the cheapest and most efficient labor the farmer can hire.

FARM SERVICE, 1950

Province	Number of Customers	Kilowatt Hours	Revenue	Kw. Hrs. per Customer	Average(1) Annual Bill	Revenue(1) per Kw. Hr.	P. C. of Total Farm Service Consumption
			\$		\$	\$	\$
Prince Edward Island ..	4,916	4,445,837	273,508	904	55.64	6.2	0.75
New Scotia .....	18,371	13,788,320	545,182	751	29.68	4.0	2.35
New Brunswick .....	x 31,721	23,381,425	1,160,836	737	36.50	5.0	3.99
Quebec .....	83,618	78,472,220	2,654,548	938	31.75	3.4	13.37
Ontario .....	119,018	371,217,464	6,848,172	3,119	57.54	1.8	63.27
Manitoba .....	16,964	40,017,358	1,238,866	2,359	73.03	3.1	6.82
Saskatchewan .....	4,057	3,571,983	247,133	880	60.92	6.9	0.61
Alberta .....	7,866	17,698,835	598,608	2,250	76.10	3.4	3.02
British Columbia .....	17,196	34,155,084	748,781	1,986	43.54	2.2	5.82
Canada .....	303,727	586,748,526	14,315,634	1,932	47.13	2.4	100.00

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

x Revised basis, not comparable with years previous to 1948.

Note: No farm service reported separately in Yukon - N.W.T. or Newfoundland.

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 on steel towers and poles, wooden poles, concrete poles and in 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 had extensive mileages.

TABLES 9 - 10 - 11 - 14 - EQUIPMENT - (Pages 28-33, 38-39)

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 269,217,000 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 ultimate 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 while 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, but recovered to 3,279,886,000 in 1950 and to 3,894,178,000 in 1951 as supply conditions improved with the addition of new plants and heavier snow and rainfall.

TABLE 13 - FUEL - (Pages 36-37)

Fuel used was principally domestic or local coal, oil and manufactured gas with stations in the Maritimes, Saskatchewan and Alberta, the largest users. The value of Canadian bituminous and sub-bituminous coal was 50.25 p.c. of the total fuel bill; fuel oil and diesel oil accounted for 30.32 p.c., and lignite coal, gasoline, gas, etc., the remainder. Fuel consumed was valued at \$10,486,268 compared with \$10,184,642 in 1949. All coal consumed cost an average of \$5.54 per ton as against \$5.43 one year earlier, while fuel and diesel oil was down from 9.50 cents to 8.74 cents a gallon. The consumption of natural gas in Alberta was more than double the amount used in 1949, and shows considerable promise as a cheaper generating fuel in the west. Coal cost per ton had risen almost 86 p.c. since 1939 and oil about 28 p.c. per 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, Newfoundland, Prince Edward Island, Saskatchewan, Alberta and the Yukon - N.W.T. 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. In the Yukon and Northwest Territories, the per centage used by domestic service is low, due to the large mining and smelting consumption relative to population.

During 1950 domestic customers in Ontario consumed 54.3 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 nation.

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

(1) DOMESTIC SERVICE

1950

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 (2) total Power used in Province	P.C. of total Domestic Power used in Canada
Newfoundland	30,311	8.64	\$ 27.57	2.09	1,321	114	27.16	0.59
P. E. Island	10,298	10.73	\$ 56.69	5.55	1,022	110	36.23	0.16
Nova Scotia	124,860	19.57	\$ 35.41	3.00	1,181	231	19.50	2.19
New Brunswick	95,540	18.66	\$ 39.22	3.83	1,023	191	14.70	1.45
Quebec	778,878	19.62	\$ 30.58	1.99	1,541	302	5.59	17.77
Ontario	1,104,317	24.70	\$ 40.50	1.22	3,317	819	21.68	54.26
Manitoba	144,122	18.77	\$ 55.08	1.15	4,783	898	23.58	10.21
Saskatchewan	94,734	11.37	\$ 51.42	3.80	1,353	154	29.86	1.90
Alberta	134,132	14.69	\$ 40.15	3.28	1,224	180	18.54	2.43
British Columbia	278,417	24.49	\$ 44.99	2.06	2,182	534	26.09	9.00
Yukon & N.W.T.	1,769	7.37	\$ 92.23	6.49	1,422	105	4.23	0.04
Canada	2,797,378	20.40	\$ 38.97	1.61	2,413	492	14.49	100.00

(1) Includes Farm Customers.

(2) Including line and transformer losses.

TABLE 1 - COMPARATIVE SUMMARY, 1939 - 1950

PRINCIPAL DATA BY CLASS OF STATION	1950	1949	1948	1947	1946
<b>ELECTRIC POWER PLANTS (Generating)</b>					
Total .....	665	650	635	607	600
Hydraulic .....	340	341	309	310	305
Fuel .....	317	309	326	297	295
Commercial .....	395	391	393	377	397
Municipal .....	270	259	242	230	203
<b>REVENUE (1)</b>					
Total .....	\$ 323,833,465	280,311,624	257,377,490	(4) 243,705,976	226,096,273
Commercial .....	\$ 141,771,226	129,481,120	119,032,951	114,639,557	108,668,772
Municipal .....	\$ 182,062,239	150,830,504	138,344,539	129,066,419	117,427,501
Generating .....	\$ 283,445,853	246,086,487	224,983,155	213,904,209	192,214,412
Non-generating .....	\$ 40,387,612	34,225,137	32,394,335	29,801,767	33,881,861
<b>EXPENSES (2)</b>					
Total .....	\$ 233,475,040	205,130,467	180,210,931	(4) 177,359,696	156,708,176
Commercial .....	\$ 83,790,453	79,560,846	70,316,885	67,279,703	67,664,274
Municipal .....	\$ 149,694,587	125,569,621	109,094,046	110,079,993	89,043,902
Generating .....	\$ 154,961,646	136,881,078	120,889,466	122,714,865	100,708,844
Non-generating .....	\$ 78,513,394	68,249,389	59,321,465	54,644,831	55,999,332
<b>POLE LINE MILEAGE</b>					
Total .....	151,726	135,329	(4) 113,411	98,530	89,231
Commercial .....	54,745	49,086	41,251	35,891	33,184
Municipal .....	96,981	86,243	72,160	62,639	56,047
Generating .....	117,299	106,396	90,810	79,761	71,936
Non-generating .....	34,427	28,933	22,601	18,769	17,295
<b>CUSTOMERS</b>					
Total .....	3,269,824	3,076,369	2,822,027	2,643,327	2,476,830
Domestic service (3) .....	2,797,378	2,619,831	2,398,847	2,246,253	2,104,549
Commercial light .....	392,530	379,526	349,673	326,988	306,592
Power (small) .....	60,700	58,600	56,210	53,604	50,254
Power (large) .....	14,708	14,208	13,305	12,825	11,846
Power (municipal) .....	1,013	964	890	838	887
Street lighting .....	3,495	3,240	3,102	2,819	2,702
Commercial stations .....	1,068,867	1,042,951	937,385	870,408	826,091
Municipal stations .....	2,200,957	2,033,418	1,884,642	1,772,919	1,650,739
Generating stations .....	2,089,726	1,934,639	1,741,055	1,616,520	1,354,763
Non-generating stations .....	1,180,098	1,141,730	1,080,972	1,026,807	1,122,067
<b>ELECTRIC ENERGY GENERATED</b>					
Total kilowatt Hours (thousands) .....	48,493,718	44,418,573	42,389,681	43,424,799	41,736,987
Commercial .....	28,432,404	26,731,889	25,697,293	27,665,524	26,997,716
Municipal .....	20,061,314	17,686,684	16,692,388	15,759,275	14,739,271
Generated by water .....	46,624,218	42,779,199	41,070,095	42,273,167	40,692,395
Generated by fuel .....	1,869,500	1,639,374	1,319,586	1,151,632	1,044,592
Exports to the United States .... (Thousands) . Kw.h.	1,925,867	1,756,752	1,743,108	2,066,487	2,481,631
Imports from the United States .. (Thousands) . Kw.h.	2,591	31,205	86,391	53,037	9,527
<b>EQUIPMENT IN GENERATING STATIONS (Main Plant only)</b>					
Total Primary Power ..... H.P.	11,703,161	10,637,798	10,038,541	9,601,157	9,825,459
In commercial stations ..... H.P.	6,716,066	6,429,303	6,045,218	5,936,125	6,301,996
In municipal stations ..... H.P.	4,987,095	4,208,495	3,993,323	3,665,032	3,523,463
Total Secondary Power ..... Kv.A.	9,725,393	8,890,292	8,379,039	7,984,488	8,162,896
In commercial stations ..... Kv.A.	5,600,662	5,404,088	5,064,811	4,950,862	5,233,480
In municipal stations ..... Kv.A.	4,124,731	3,486,204	3,314,228	3,033,626	2,929,416
<b>AUXILIARY PLANT EQUIPMENT</b>					
Primary power ..... H.P.	273,080	245,478	181,055	184,930	176,253
Secondary power ..... Kv.A.	234,824	213,410	135,470	154,199	149,462

Note: Data on Capital not collected after 1943, when the total was \$1,778,224,640.

(1) Cost of power interchanged between stations excluded from revenue of purchasing stations (see page 8).

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

(3) Farm service is included with domestic service.

(4) Revised.

TABLEAU 1 - SOMMAIRE COMPARATIF, 1939 - 1950

1945	1943	1942	1941	1939	DONNEES PRINCIPALES PAR CLASSES D'USINES
USINES ELECTRIQUES (Génératrices)					
600	622	616	607	611	Total .....
302	322	320	313	313	Hydrauliques .....
298	300	295	294	298	A combustible .....
392	425	428	424	427	Commerciales .....
208	197	188	183	184	Municipales .....
RECETTES (1)					
215,105,473	204,801,508	203,835,365	186,018,040	151,880,969	Total .....
101,672,511	124,720,993	124,611,713	111,851,778	92,535,049	Commerciales .....
113,432,962	80,070,515	79,223,652	74,165,262	59,345,920	Municipales .....
183,227,685	175,217,757	173,916,640	157,283,409	127,483,222	Génératrices .....
31,877,788	29,583,751	29,918,725	28,734,631	24,397,747	Non-génératrices .....
DEPENSES (2)					
135,104,091	135,555,469	132,581,418	117,758,977	91,982,372	Total .....
60,893,580	72,579,621	71,133,382	60,561,621	42,471,534	Commerciales .....
74,210,511	62,975,848	61,448,036	57,197,356	49,510,838	Municipales .....
83,336,610	81,500,674	80,171,586	69,148,513	51,570,137	Génératrices .....
51,767,481	54,054,795	52,409,832	48,610,464	40,412,235	Non-génératrices .....
LIGNES SUR POTEAUX					
83,178	78,063	77,909	77,253	72,132	Total .....
31,117	32,085	31,847	31,442	30,288	Commerciales .....
52,061	45,978	46,062	45,811	41,844	Municipales .....
66,694	61,710	61,927	61,495	57,084	Génératrices .....
16,484	16,353	15,982	15,758	15,048	Non-génératrices .....
ABONNES					
2,333,230	2,164,861	2,125,304	2,081,270	1,941,663	Total .....
1,987,360	1,848,080	1,803,708	1,755,917	1,623,672	Service domestique (3) .....
285,402	259,640	264,706	268,977	262,590	Eclairage commercial .....
46,955	44,948	44,813	44,071	43,896	Force motrice (petite) .....
10,955	9,772	9,673	9,934	9,267	Force motrice (grosse) .....
2,558	2,421	2,404	2,371	2,238	Energie (municipale) .....
2,558	2,421	2,404	2,371	2,238	Eclairage des rues .....
766,554	1,005,316	985,059	954,906	889,418	Usines commerciales .....
1,566,676	1,159,545	1,140,245	1,126,364	1,052,245	Usines municipales .....
1,256,095	1,129,272	1,103,539	1,079,233	998,067	Usines génératrices .....
1,077,135	1,035,589	1,021,765	1,002,037	943,596	Usines non-génératrices .....
ENERGIE ELECTRIQUE GENEREE					
40,130,054	40,479,593	37,355,179	33,317,663	28,338,030	Total Kw. heures générées (milliers) .....
25,530,857	31,082,239	28,177,387	24,793,715	21,290,930	Commerciale .....
14,599,197	9,397,354	9,177,792	8,523,948	7,047,100	Municipale .....
39,131,020	39,660,312	36,582,953	32,628,930	27,829,017	Produit par l'eau .....
999,034	819,281	772,226	688,733	509,013	Produit par le combustible .....
2,546,435	2,545,038	2,453,739	2,354,229	1,908,756	Exportations d'électricité aux Etats-Unis (milliers) ..... Kw.h.
15,916	599	594	670	666	Importations d'électricité des Etats-Unis (milliers) ..... Kw.h.
MACHINERIE DANS LES USINES GENERATRICES (Usines principales seulement)					
9,666,947	9,602,794	8,613,696	8,157,585	7,607,122	Total force motrice primaire ..... H.P.
6,294,121	7,239,936	6,269,386	5,917,160	5,385,632	Dans les usines commerciales ..... H.P.
3,872,826	2,362,858	2,344,310	2,240,425	2,221,490	Dans les usines municipales ..... H.P.
8,035,767	7,982,027	7,256,927	6,851,785	6,435,416	Total force motrice secondaire ..... Kv.A.
5,227,037	6,074,835	5,366,769	5,054,727	4,654,745	Dans les usines commerciales ..... Kv.A.
2,808,730	1,907,132	1,890,158	1,797,058	1,780,671	Dans les usines municipales ..... Kv.A.
OUTILLAGE D'USINES AUXILIAIRES					
173,312	194,822	194,966	194,651	194,139	Force motrice primaire ..... H.P.
146,556	166,010	166,236	166,021	165,785	Force motrice secondaire ..... Kv.A.

Remarque: Les données sur le capital n'ont pas été recueillies à partir de 1943, alors que le total était de \$1,778,224,640.

(1) Le coût de l'énergie échangée entre stations est exclu du revenu des stations en faisant l'achat (voir p.8).

(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.

TABLE 2 - DOMESTIC SERVICE, 1939 - 1950

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 Hr. Moyenne par kilowatt heure
	(000)	\$	kw.hrs.	\$	\$	\$
CANADA						
1939	1,623,672	2,310,891	43,793,482	1,423	26.97	1.90
1943	1,652,367	2,843,612	51,307,781	1,535	27.70	1.80
1945	1,987,360	3,365,497	55,735,696	1,693	28.05	1.66
1946	2,104,549	3,881,677	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
1948	2,398,847	4,984,280	79,920,367	2,078	33.32	1.60
1949	2,619,831	5,678,847	90,302,748	2,168	34.47	1.59
1950	2,797,378	6,750,303	109,015,402	2,413	36.97	1.61
Change (Changement) 1939 - Amount (Volume) Per cent (p.c.)	1950	1,173,706 72.29	4,439,412 192.11	65,221,920 148.93	990 69.57	12.00 44.49
NEWFOUNDLAND						
1949	28,725	31,906	759,347	1,111	26.44	2.38
1950	30,311	40,051	835,530	1,321	27.57	2.09
PRINCE EDWARD ISLAND						
1939	5,067	2,908	163,226	574	32.21	5.61
1943	5,715	3,895	217,914	682	38.13	5.59
1945	6,387	5,217	238,538	817	37.35	4.57
1946	6,882	6,017	274,082	874	39.83	4.56
1947	7,372	6,917	369,805	938	50.16	5.35
1948	8,075	8,341	454,741	1,033	56.31	5.45
1949	8,966	9,433	506,897	1,052	56.54	5.37
1950	10,298	10,526	583,765	1,022	56.69	5.55
Change (Changement) 1939 - Amount (Volume) Per cent (p.c.)	1950	5,231 103.24	7,618 281.97	420,539 257.64	448 78.05	24.48 76.00
NOVA SCOTIA						
1939	62,034	39,084	1,709,507	630	27.56	4.37
1943	75,957	57,324	2,156,852	755	28.40	3.76
1945	84,011	70,099	2,286,358	834	27.21	3.26
1946	89,484	82,696	2,660,287	924	29.73	3.22
1947	96,231	94,135	2,923,631	978	30.38	3.11
1948	102,837	110,981	3,488,141	1,079	33.92	3.14
1949	107,516	127,666	3,974,574	1,187	36.97	3.11
1950	124,860	147,522	4,421,444	1,181	35.41	3.00
Change (Changement) 1939 - Amount (Volume) Per cent (p.c.)	1950	62,826 101.28	108,438 277.45	2,711,937 158.54	551 87.46	7.85 28.48
NEW BRUNSWICK						
1939	46,485	26,989	1,307,772	581	28.13	4.85
1943	56,239	35,294	1,661,550	628	29.54	4.71
1945	62,175	45,958	1,883,374	739	30.29	4.10
1946	67,479	51,377	2,076,400	761	30.77	4.04
1947	74,854	63,728	2,484,545	851	33.19	3.90
1948	80,270	67,749	2,806,668	844	34.97	4.14
1949	87,927	87,846	3,348,391	1,000	38.12	3.81
1950	95,540	97,752	3,746,973	1,023	39.22	3.83
Change (Changement) 1939 - Amount (Volume) Per cent (p.c.)	1950	49,055 105.53	70,763 262.19	2,439,201 186.52	442 76.08	11.09 39.42
QUEBEC						
1939	434,825	311,420	9,167,384	716	21.08	2.94
1943	507,765	398,305	10,791,560	784	21.25	2.71
1945	568,865	507,274	11,925,494	908	21.34	2.35
1946	590,125	596,693	13,401,463	1,011	22.71	2.25
1947	631,597	692,335	15,156,347	1,096	24.00	2.19
1948	681,967	830,445	17,537,147	1,218	25.72	2.11
1949	741,341	999,216	20,379,739	1,347	27.47	2.04
1950	778,878	1,199,887	23,820,883	1,541	30.58	1.99
Change (Changement) 1939 - Amount (Volume) Per cent (p.c.)	1950	344,053 79.12	888,467 285.30	14,653,499 159.84	826 115.22	9.50 45.07

Note: British Columbia figures included Yukon and Northwest Territories up to and including 1947.

TABLEAU 2 - SERVICE DOMESTIQUE, 1939 - 1950

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 Hr. Moyenne par kilowatt heure
ONTARIO		(000)	\$	kw.hrs.	\$	\$
1939	719,871	1,374,325	19,657,658	1,909	27.31	1.43
1943	801,430	1,582,562	23,000,644	2,099	28.70	1.37
1945	839,968	1,963,043	23,695,446	2,337	28.21	1.21
1946	876,761	2,269,906	26,314,259	2,587	30.01	1.16
1947	918,770	2,533,594	29,046,165	2,758	31.61	1.15
1948	969,234	2,799,781	32,421,793	2,889	33.45	1.16
1949	1,036,705	3,076,688	34,913,383	2,968	33.58	1.13
1950	1,104,317	3,662,862	44,723,940	3,317	40.50	1.22
Change (Changement) 1939 - Amount (Volume) Per cent (p.c.)	1950	384,446 53.40	2,288,537 166.52	25,066,282 127.51	1,408 73.76	13.19 48.30 - 0.21 - 14.69
MANITOBA						
1939	81,091	320,827	3,311,662	3,956	40.84	1.03
1943	88,528	374,169	3,712,351	4,226	41.93	0.99
1945	94,673	416,499	4,237,484	4,399	44.76	1.02
1946	103,204	457,464	4,680,853	4,433	45.36	1.02
1947	116,570	501,744	5,414,994	4,304	46.45	1.08
1948	119,574	553,430	5,883,853	4,628	49.21	1.06
1949	131,284	616,272	6,810,980	4,694	51.88	1.11
1950	144,122	689,335	7,938,900	4,783	55.08	1.15
Change (Changement) 1939 - Amount (Volume) Per cent (p.c.)	1950	63,031 77.73	368,508 114.86	4,627,238 139.73	827 20.90	14.24 34.87 + 0.12 + 11.65
SASKATCHEWAN						
1939	49,980	41,198	2,004,433	824	40.10	4.87
1943	55,500	48,996	2,257,885	883	40.68	4.61
1945	61,285	58,402	2,565,796	963	41.87	4.39
1946	67,336	68,530	2,940,165	1,018	43.66	4.29
1947	73,625	76,152	3,248,282	1,034	44.12	4.27
1948	80,614	89,871	3,675,447	1,115	45.59	4.09
1949	87,987	105,522	4,171,599	1,199	47.41	3.95
1950	94,734	128,221	4,870,802	1,353	51.42	3.80
Change (Changement) 1939 - Amount (Volume) Per cent (p.c.)	1950	44,754 89.54	87,023 211.23	2,866,369 143.00	529 64.20	11.32 28.23 - 1.07 - 21.97
ALBERTA						
1939	68,267	42,210	2,145,093	618	31.42	5.08
1943	77,810	52,100	2,514,031	670	32.31	4.83
1945	87,005	63,962	2,932,410	735	33.70	4.59
1946	92,461	75,756	3,166,731	819	34.25	4.18
1947	100,134	88,366	3,472,789	882	34.68	3.93
1948	108,717	107,548	3,939,670	989	36.79	3.72
1949	121,440	130,328	4,614,214	1,073	38.00	3.54
1950	134,132	164,205	5,384,777	1,224	40.15	3.28
Change (Changement) 1939 - Amount (Volume) Per cent (p.c.)	1950	65,865 96.48	121,995 289.02	3,239,684 151.03	606 98.06	8.73 27.78 - 1.80 - 35.43
BRITISH COLUMBIA						
1939	156,052	151,930	4,326,747	974	27.73	2.85
1943	179,136	190,967	4,994,894	1,066	27.88	2.62
1945	192,991	235,043	5,966,796	1,218	30.92	2.54
1946	210,817	274,138	7,305,880	1,300	34.66	2.67
1947	227,100	326,251	8,142,033	1,437	35.85	2.50
1948	246,025	414,850	9,535,260	1,686	38.75	2.30
1949	265,835	491,897	10,739,002	1,850	40.62	2.20
1950	278,417	607,427	12,525,229	2,182	44.99	2.06
Change (Changement) 1939 - Amount (Volume) Per cent (p.c.)	1950	122,365 78.41	455,497 299.81	8,198,482 189.48	1,208 124.02	17.26 62.24 - 0.79 - 27.72
YUKON AND NORTHWEST TERRITORIES						
1948	1,534	1,284	119,647	837	78.00	9.32
1949	1,605	2,073	124,622	1,292	77.65	6.01
1950	1,769	2,515	163,159	1,422	92.23	6.49

Remarque: Les chiffres de la Colombie-Britannique comprennent le Yukon et le territoire du Nord-Ouest jusque 1947 inclus.

TABLE 3 - ELECTRIC POWER PLANTS, 1950

	Canada	Newfound- land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
TOTAL NUMBER OF GENERATING STATIONS .....	665	18	7	50	19	99	
Per cent of total for Canada .....	100.00	2.71	1.05	7.52	2.86	14.89	
COMMERCIAL .....	395	17	6	22	7	75	
Hydraulic .....	197	17	3	15	4	68	
Fuel .....	198	-	3	7	3	7	
MUNICIPAL .....	270	1	1	28	12	24	
Hydraulic .....	151	-	-	23	3	22	
Fuel .....	119	1	1	5	9	2	
With water wheels and turbines .....	348	17	3	38	7	90	
With steam engines only .....	13	-	-	-	1	1	
With steam turbines only .....	31	-	1	6	3	1	
With gas or oil engines only .....	266	1	3	4	7	7	
With both steam engines and turbines .....	4	-	-	1	1	-	
With both steam and gas or oil engines .....	3	-	-	1	-	-	
With alternating current dynamos only .....	574	18	6	50	18	99	
With direct current dynamos only .....	82	-	1	-	1	-	
With both alternating and direct current dynamos .....	9	-	-	-	-	-	
COMMERCIAL ORGANIZATIONS .....	X 390	8	4	17	15	81	
Number generating power .....	254	7	3	12	7	33	
Number buying power for redistribution .....	136	1	1	5	8	48	
MUNICIPALITIES .....	X 492	1	1	22	10	36	
Number generating power .....	82	1	1	6	2	13	
Number buying power for redistribution .....	410	-	-	16	8	23	
AUXILIARY PLANTS .....	70	4	2	5	6	9	
To hydraulic stations .....	58	4	2	2	2	8	
To non-generating stations .....	12	-	-	3	4	1	

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

TABLEAU 3 - USINES GÉNÉRATRICES, 1950

	Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia	Yukon and N.W.T.	
	139	9	139	92	86	7	NOMBRE D'USINES GÉNÉRATRICES .....
	20.90	1.35	20.90	13.84	12.93	1.05	Pourcentage du total pour le Canada .....
	46	5	80	83	49	5	COMMERCIALES .....
	39	3	1	14	31	2	Hydrauliques .....
	7	2	79	69	18	3	A combustible .....
	93	4	59	9	37	2	MUNICIPALES .....
	88	2	-	-	12	1	Hydrauliques .....
	5	2	59	9	25	1	A combustible .....
	127	5	1	14	43	3	Avec roues et turbines hydrauliques .....
	3	1	-	3	4	-	Avec machines à vapeur seulement .....
	1	-	6	7	6	-	Avec turbines à vapeur seulement .....
	8	3	131	67	31	4	Avec moteurs à gaz ou à pétrole seulement .....
	-	-	1	1	-	-	Avec machines et turbines à vapeur à la fois .....
	-	-	-	-	2	-	Avec machines à vapeur à gaz et à pétrole .....
	135	9	84	68	80	7	Avec dynamos à courant alternatif seulement .....
	2	-	54	20	4	-	Avec dynamos à courant direct seulement .....
	2	-	1	4	2	-	Avec dynamos à courant alternatif et direct .....
	62	10	83	66	45	8	USINES COMMERCIALES .....
	31	3	80	50	28	5	Nombre d'usines génératrices .....
	31	7	3	16	17	3	Nombre d'usines achetant de l'électricité pour la revendre .....
	345	8	33	16	23	1	MUNICIPALITES .....
	16	3	25	8	10	1	Nombre d'usines génératrices .....
	329	5	8	8	13	-	Nombre d'usines achetant de l'électricité pour la revendre .....
	16	2	-	8	17	1	USINES AUXILIAIRES .....
	14	1	-	8	17	-	Aux usines hydrauliques .....
	2	1	-	-	-	1	Aux usines non-génératrices .....

X - 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.

TABLE 4 - REVENUE, 1950

	Canada	Newfound-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
	\$	\$	\$	\$	\$	\$	\$
REVENUE FROM SALE OF ELECTRIC ENERGY .....	323,833,465	2,219,529	1,047,167	12,177,394	8,640,541	114,585,604	
For domestic service .....	109,015,402	835,530	583,765	4,421,444	3,746,973	23,820,883	
For commercial light .....	57,367,084	507,593	288,439	2,434,730	1,706,291	14,171,124	
For power (small) .....	15,367,042	361,888	57,859	1,430,984	852,356	2,940,348	
For power (large) .....	130,399,267	456,654	82,776	3,550,298	2,070,082	71,019,681	
For power (municipal) .....	4,871,532	1,512	15,938	52,273	58,019	1,065,845	
For street lighting .....	6,813,138	56,352	18,390	287,665	206,820	1,567,723	
REVENUE OF COMMERCIAL STATIONS .....	141,771,226	2,208,140	801,927	8,699,536	2,812,656	74,409,792	
Non-generating .....	4,185,252	13,402	1,364	830,297	833,095	822,704	
Generating .....	137,585,974	2,194,738	800,563	7,869,239	1,979,561	73,587,088	
Hydraulic .....	124,873,039	2,194,738	37,645	1,764,471	1,793,290	73,305,826	
Fuel .....	12,712,935	-	762,918	6,104,768	186,271	281,262	
REVENUE OF MUNICIPAL STATIONS .....	182,062,239	11,389	245,240	3,477,858	5,827,885	40,175,812	
Non-generating .....	36,202,360	-	-	714,158	1,107,137	1,206,024	
Generating .....	145,859,879	11,389	245,240	2,763,700	4,720,748	38,969,788	
Hydraulic .....	127,243,841	-	-	2,576,545	489,184	38,928,216	
Fuel .....	18,616,038	11,389	245,240	187,155	4,231,564	41,572	
Revenue of non-generating stations .....	40,387,612	13,402	1,364	1,544,455	1,940,232	2,028,728	
Revenue of generating stations .....	283,445,853	2,206,127	1,045,803	10,632,939	6,700,309	112,556,876	
Hydraulic .....	252,116,880	2,194,738	37,645	4,341,016	2,282,474	112,234,042	
Fuel .....	31,328,973	11,389	1,008,158	6,291,923	4,417,835	322,834	
Average revenue per H.P. of primary power .....	27.67	40.37	90.20	46.51	46.23	19.40	
Average revenue per H.P. in main and auxiliary plants ..	27.04	39.66	87.20	46.03	44.17	19.26	
Average revenue per Kv.A. of dynamo capacity .....	33.30	47.93	115.90	54.64	53.56	22.77	
Average revenue per Kv.A. in main and auxiliary plants ..	32.51	47.03	112.63	54.10	51.32	22.60	
Average revenue per domestic service customer .....	38.97	27.57	56.69	35.41	39.22	30.58	
Average revenue per commercial light customer .....	146.15	177.79	152.77	146.71	129.26	136.32	
Average revenue per small power customer .....	253.16	841.60	370.89	390.66	514.40	314.17	
Average revenue per large power customer .....	8,865.87	26,862.00	9,197.33	14,201.19	14,578.04	28,905.04	
Average revenue per kilowatt hour consumed .. cents	0.67	1.51	3.60	1.60	1.21	0.42	
Average revenue per kilowatt hour - domestic and farm service .. cents	1.61	2.09	5.55	3.00	3.83	1.99	
Average revenue per kilowatt hour - commercial light *	2.04	2.95	3.69	3.36	3.11	1.99	

\* Gross revenue less cost of power interchanged between stations.

/ Affected by power purchased from another province.

X Adjusted for power purchased from Quebec plants.

TABLEAU 4 - RECETTES, 1950

	Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia	Yukon and N.W.T.	
\$	\$	\$	\$	\$	\$	\$	
123,780,950	18,030,068	12,344,057	15,524,403	32,022,438	811,095		RECETTES PROVENANT DE LA VENTE D'ÉLECTRICITÉ .....
44,723,940	7,938,900	4,870,802	5,384,777	12,525,229	163,159		Pour éclairage domestique .....
18,218,726	3,569,126	3,237,490	4,506,545	8,584,475	142,545		Pour éclairage commercial .....
4,187,456	862,615	1,162,668	1,767,919	1,688,614	54,335		Pour force motrice (petite) .....
50,820,557	5,108,093	2,492,314	3,237,404	8,472,187	439,002		Pour force motrice (grosse) .....
2,973,492	197,812	215,411	225,496	63,930	1,804		Pour pouvoir municipal .....
2,856,779	353,522	365,372	402,262	688,003	10,250		Pour éclairage des rues .....
10,301,686	8,976,957	2,383,529	8,015,395	26,035,267	486,168		RECETTES DES USINES COMMERCIALES .....
3,153,432	1,404,448	15,001	167,594	115,413	99,429		Non-génératrices .....
7,148,254	7,572,509	2,368,528	7,847,801	25,919,854	386,739		Génératrices .....
6,395,553	7,451,312	995,832	5,113,884	25,669,669	239,719		Hydrauliques .....
752,701	121,197	1,372,696	2,733,917	250,185	147,020		A combustible .....
113,479,264	9,053,111	9,960,538	7,509,008	5,987,171	324,927		RECETTES DES USINES MUNICIPALES .....
36,799,512	4,026,713	1,536,284	2,528,126	1,232,681	-		Non-génératrices .....
76,679,752	5,026,398	8,424,244	4,980,882	4,754,490	324,927		Génératrices .....
76,578,237	4,924,624	-	-	4,476,561	312,153		Hydrauliques .....
101,515	101,774	8,424,244	4,980,882	277,929	12,774		A combustible .....
39,952,944	5,431,161	1,551,285	2,695,720	1,348,094	99,429		Recettes des usines non-génératrices .....
83,828,006	12,598,907	10,792,772	12,828,683	30,674,344	711,666		Recettes des usines génératrices .....
82,973,790	12,375,936	995,832	5,113,884	30,146,230	551,872		Hydrauliques .....
854,216	222,971	9,796,940	7,714,799	528,114	159,794		A combustible .....
I 27.04	30.23	39.42	55.76	40.77	72.67		Moyenne de recettes par H.P. de machinerie primaire .....
I 26.29	29.44	39.42	52.21	38.29	71.64		Moyenne de recettes par H.P. de machinerie principale et auxiliaire .....
I 34.46	40.75	48.70	64.41	47.72	82.20		Moyenne de recettes par Kv.A. de capacité de dynamos .....
I 33.41	39.42	48.70	60.24	44.98	81.45		Moyenne de recettes par Kv.A. de capacité des dynamos, usines principales et auxiliaires .....
40.50	55.08	51.42	40.15	44.99	92.23		Moyenne de recettes par abonnés d'éclairage domestique ...
134.78	148.71	145.32	163.70	192.06	391.61		Moyenne de recettes par abonnés d'éclairage commercial ...
249.19	155.23	316.46	198.24	279.80	705.65		Moyenne de recettes par abonnés pour petite force motrice
12,240.02	993.21	5,477.61	3,400.63	7,701.99	14,161.35		Moyenne de recettes par abonnés pour grosse force motrice
0.67	0.62	1.37	1.75	1.26	1.36		Moyenne de recettes par Kw. heure ..... cents
1.22	1.15	3.80	3.28	2.06	6.49		Moyenne de recettes par Kw. heure - service domestique et de fermes ..... cents
1.46	1.92	4.25	3.75	2.77	8.49		Moyenne de recettes par Kw.heure - service commercial "

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

/ Affecté par énergie achetée d'une autre province.

X Adjusté pour achats de courant des usines du Québec.

TABLE 5 - EXPENSES, 1950

	Canada	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
TOTAL EXPENSES .....	233,475,040	1,226,810	643,411	10,976,660	8,241,939	59,529,334	
Per cent of total for Canada .....	100.00	0.52	0.28	4.70	3.53	25.50	
Salaries and wages .....	88,988,681	860,631	288,882	3,375,819	3,701,121	21,018,484	
Fuel .....	10,486,268	20,325	285,096	2,629,030	1,454,565	166,592	
Taxes (X) .....	31,823,530	243,835	62,747	1,004,107	269,829	19,616,515	
Cost of power .....	102,176,561	102,019	6,686	3,967,704	2,816,424	18,727,743	
TOTAL EXPENSES FOR COMMERCIAL STATIONS .....	83,780,453	1,217,645	512,020	8,237,662	2,035,930	40,912,690	
Salaries and wages .....	29,735,704	855,918	240,992	2,452,314	420,315	13,887,481	
Fuel .....	5,029,317	15,923	201,595	2,502,005	29,320	140,998	
Taxes (X) .....	25,138,868	243,785	62,747	908,527	266,648	15,544,011	
Cost of power .....	23,876,564	102,019	6,686	2,374,816	1,319,647	11,340,200	
Non-generating stations .....	8,520,544	22,441	891	1,186,152	1,674,853	741,264	
Generating stations .....	75,259,909	1,195,204	511,129	7,051,610	361,077	40,171,426	
Hydraulic stations .....	65,464,079	1,195,204	18,836	993,779	331,054	39,973,615	
Fuel stations .....	9,795,830	-	492,293	6,057,731	30,023	197,811	
TOTAL EXPENSES FOR MUNICIPAL STATIONS .....	149,694,587	9,165	131,391	2,738,998	6,206,009	18,616,644	
Salaries and wages .....	59,252,977	4,713	47,890	923,505	3,280,806	7,131,003	
Fuel .....	5,456,951	4,402	83,501	127,025	1,425,245	25,594	
Taxes (X) .....	6,684,662	50	-	95,580	3,181	4,072,504	
Cost of power .....	78,299,997	-	-	1,592,888	1,496,777	7,387,543	
Non-generating stations .....	69,992,850	-	-	1,638,078	1,584,124	1,142,892	
Generating stations .....	79,701,737	9,165	131,391	1,100,920	4,621,885	17,473,752	
Hydraulic stations .....	68,048,517	-	-	699,214	112,537	17,459,062	
Fuel stations .....	11,653,220	9,165	131,391	401,706	4,509,348	14,690	
TOTAL EXPENSES FOR NON-GENERATING STATIONS ...	78,513,394	22,441	891	2,824,230	3,258,977	1,884,156	
Salaries and wages .....	17,985,575	5,573	-	650,636	522,139	651,209	
Fuel .....	25,366	-	-	-	1,959	-	
Taxes (X) .....	1,280,853	-	-	170,015	159,711	23,953	
Cost of power .....	59,221,600	16,868	891	2,003,579	2,575,168	1,208,994	
TOTAL EXPENSES FOR GENERATING STATIONS .....	154,961,646	1,204,369	642,520	8,152,430	4,982,962	57,645,178	
Salaries and wages .....	71,003,106	855,058	288,882	2,725,183	3,178,982	20,367,275	
Fuel .....	10,460,902	20,325	285,096	2,629,030	1,452,606	166,592	
Taxes (X) .....	30,542,677	243,835	62,747	834,092	110,118	19,592,562	
Cost of power .....	42,954,961	85,151	5,795	1,964,125	241,256	17,518,749	
Hydraulic stations .....	133,512,596	1,195,204	18,836	1,692,993	443,591	57,432,677	
Fuel stations .....	21,449,050	9,165	623,684	6,459,437	4,539,371	212,501	

(X) Sales tax not included (see page 9).

# Includes only the four items listed.

TABLEAU 5 - DEPENSES, 1950 /

	Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia	Yukon and N.W.T.	
112,225,760	8,748,143	6,583,127	9,210,956	15,741,171	347,729	TOTAL DES DEPENSES .....	
48,07	3,75	2,82	3,94	6,74	0,15	Pourcentage du total pour le Canada .....	
39,362,575	5,559,026	2,687,791	3,433,795	8,538,379	172,177	Salaires et gages .....	
973,838	87,509	2,306,103	1,556,610	972,541	34,059	Combustible .....	
3,498,648	363,869	272,315	1,585,419	4,888,705	17,541	Taxes (X) .....	
68,400,899	2,737,739	1,316,918	2,635,131	1,341,546	123,952	Achat d'énergie électrique .....	
9,183,260	3,122,675	1,171,716	5,055,174	12,047,965	283,716	TOTAL DES DEPENSES POUR LES USINES COMMERCIALES .....	
1,615,692	1,312,079	552,975	2,043,803	6,243,212	110,923	Salaires et gages .....	
425,812	25,880	429,194	671,376	555,914	31,300	Combustible .....	
1,656,663	199,721	174,736	1,257,928	4,806,561	17,541	Taxes (X) .....	
5,485,093	1,584,995	14,811	1,082,067	442,278	123,952	Achat d'énergie électrique .....	
2,904,539	1,644,681	17,524	69,393	148,038	110,768	Usines non-génératrices .....	
6,278,721	1,477,994	1,154,192	4,985,781	11,899,927	172,948	Usines génératrices .....	
5,849,799	1,412,923	404,173	3,477,876	11,757,999	48,821	Usines hydrauliques .....	
428,922	65,071	750,019	1,507,905	141,928	124,127	Usines à combustible .....	
103,042,500	5,625,468	5,411,411	4,155,782	3,693,206	64,013	TOTAL DES DEPENSES POUR LES USINES MUNICIPALES .....	
37,736,883	4,246,947	2,134,816	1,389,993	2,295,167	61,254	Salaires et gages .....	
548,026	61,629	1,876,909	885,234	416,627	2,759	Combustible .....	
1,841,985	164,148	97,579	327,491	82,144	-	Taxes (X) .....	
62,915,606	1,152,744	1,302,107	1,553,064	899,268	-	Achat d'énergie électrique .....	
57,479,191	3,552,235	1,300,818	2,270,068	1,025,444	-	Usines non-génératrices .....	
45,563,309	2,073,233	4,110,593	1,885,714	2,667,762	64,013	Usines génératrices .....	
45,519,939	2,028,613	-	-	2,172,974	56,178	Usines hydrauliques .....	
43,370	44,620	4,110,593	1,885,714	494,788	7,835	Usines à combustible .....	
60,383,730	5,196,916	1,318,342	2,339,461	1,173,482	110,768	TOTAL DES DEPENSES DES USINES NON-GENERATRICES .....	
12,678,801	2,417,279	175,123	566,008	294,216	24,591	Salaires et gages .....	
22,641	-	-	-	-	766	Combustible .....	
604,190	41,898	97,579	166,859	8,041	8,607	Taxes (X) .....	
47,078,098	2,737,739	1,045,640	1,606,594	871,225	76,804	Achat d'énergie électrique .....	
51,842,030	3,551,227	5,264,785	6,871,495	14,567,689	236,961	TOTAL DES DEPENSES DES USINES GENERATRICES .....	
26,673,774	3,141,747	2,512,668	2,867,788	8,244,163	147,586	Salaires et gages .....	
951,197	87,509	2,306,103	1,556,610	972,541	33,293	Combustible .....	
2,894,458	321,971	174,736	1,418,560	4,880,664	8,934	Taxes (X) .....	
21,322,601	-	271,278	1,028,537	470,321	47,148	Achat d'énergie électrique .....	
51,369,738	3,441,536	404,173	3,477,876	13,930,973	104,999	Usines hydrauliques .....	
472,292	109,691	4,860,612	3,393,619	636,716	131,962	Usines à combustible .....	

(X) Taxe des ventes non comprises (Voir p.9).

\* Ne comprend que les quatres items énumérés.

TABLE 6 - EMPLOYEES, 1950

	Canada	New- found- land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
TOTAL NUMBER OF PERSONS EMPLOYED .....	32,873	464	157	1,588	1,468	7,933	
Per cent of total for Canada .....	100.00	1.41	0.48	4.83	4.47	24.13	
Officers, clerks, other salaried employees, etc.	11,635	70	65	662	567	2,476	
Employees on wages .....	21,238	394	92	926	901	5,457	
TOTAL EMPLOYEES IN COMMERCIAL STATIONS .....	11,601	460	133	1,085	198	5,395	
Officers, clerks, other salaried employees, etc.	3,637	70	60	385	49	1,502	
Employees on wages .....	7,964	390	73	700	149	3,893	
Non-generating .....	617	2	-	164	107	177	
Generating .....	10,984	458	133	921	91	5,218	
Hydraulic .....	9,726	458	5	364	86	5,167	
Fuel .....	1,258	-	128	557	5	51	
TOTAL EMPLOYEES IN MUNICIPAL STATIONS .....	21,272	4	24	503	1,270	2,538	
Officers, clerks, other salaried employees, etc.	7,998	-	5	277	518	974	
Employees on wages .....	13,274	4	19	226	752	1,564	
Non-generating .....	6,829	-	-	159	145	153	
Generating .....	14,443	4	24	344	1,125	2,385	
Hydraulic .....	12,023	-	-	322	40	2,380	
Fuel .....	2,420	4	24	22	1,085	5	
TOTAL EMPLOYEES IN NON-GENERATING STATIONS .....	7,446	2	-	323	252	330	
Officers, clerks, other salaried employees, etc.	2,728	-	-	102	118	108	
Employees on wages .....	4,718	2	-	221	134	222	
TOTAL EMPLOYEES IN GENERATING STATIONS .....	25,427	462	157	1,265	1,216	7,603	
Officers, clerks, other salaried employees, etc.	8,907	70	65	560	449	2,368	
Employees on wages .....	16,520	392	92	705	767	5,235	
Hydraulic .....	21,749	458	5	686	126	7,547	
Fuel .....	3,678	4	152	579	1,090	56	

TABLEAU 6 - EMPLOYES, 1950

Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia	Yukon and N. W. T.	
13,289	2,619	1,205	1,378	2,719	53	TOTAL DU PERSONNEL OCCUPE .....
40.42	7.97	3.67	4.19	8.27	0.16	Pourcentage du total pour le Canada .....
5,217	779	330	428	1,021	20	Administrateurs, directeurs, commis & tous employés des bureaux .....
8,072	1,840	875	950	1,698	33	Ouvriers et journaliers .....
573	572	211	846	2,099	29	PERSONNEL DES USINES COMMERCIALES .....
134	257	79	267	821	13	Administrateurs, directeurs, commis et tous employés des bureaux .....
439	315	132	579	1,278	16	Ouvriers et journaliers .....
118	10	5	8	18	8	Non-génératrices .....
455	562	206	838	2,081	21	Génératrices .....
437	550	93	503	2,056	7	Hydrauliques .....
18	12	113	335	25	14	Combustible .....
12,716	2,047	994	532	620	24	PERSONNEL DES USINES MUNICIPALES .....
5,083	522	251	161	200	7	Administrateurs, directeurs, commis et tous employés des bureaux .....
7,633	1,525	743	371	420	17	Ouvriers et journaliers .....
4,766	1,225	76	210	95	-	Non-génératrices .....
7,950	822	918	322	525	24	Génératrices .....
7,941	811	-	-	507	22	Hydrauliques .....
9	11	918	322	18	2	Combustible .....
4,884	1,235	81	218	113	8	PERSONNEL DES USINES NON-GÉNÉRATRICES .....
1,951	277	41	88	40	3	Administrateurs, directeurs, commis et tous employés des bureaux .....
2,933	958	40	130	73	5	Ouvriers et journaliers .....
8,405	1,384	1,124	1,160	2,606	45	PERSONNEL DES USINES GÉNÉRATRICES .....
3,266	502	289	340	981	17	Administrateurs, directeurs, commis et tous employés des bureaux .....
5,139	882	835	820	1,625	28	Ouvriers et journaliers .....
8,378	1,361	93	503	2,563	29	Hydrauliques .....
27	23	1,031	657	43	16	Combustible .....

TABLE 7 - NUMBER OF CUSTOMERS, 1950

	Canada	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
NUMBER OF CUSTOMERS .....	3,269,824	33,626	12,367	145,499	110,615	900,464	
Per cent of total for Canada .....	100.00	1.03	0.38	4.45	3.38	27.54	
Domestic service .....	2,797,378	30,311	10,298	124,860	95,540	778,878	
Commercial light .....	392,530	2,855	1,888	16,595	13,200	103,953	
Power (small) .....	60,700	430	156	3,663	1,657	13,723	
Power (large) .....	14,708	17	9	250	142	2,457	
Power (municipal) .....	1,013	4	2	18	15	204	
Street lighting .....	3,495	9	14	113	61	1,243	
COMMERCIAL STATIONS .....	1,066,867	33,396	10,140	89,143	26,308	484,412	
Domestic service .....	910,149	30,103	8,381	76,305	22,458	422,072	
Commercial light .....	130,618	2,835	1,627	10,105	3,328	52,493	
Power (small) .....	20,077	430	112	2,574	435	6,949	
Power (large) .....	5,906	17	6	93	62	1,557	
Power (municipal) .....	327	3	1	6	6	159	
Street lighting .....	1,790	8	13	60	19	1,182	
Non-generating .....	103,374	183	37	25,028	21,611	19,723	
Generating .....	965,493	33,213	10,103	64,115	4,697	464,689	
Hydraulic .....	863,157	33,213	561	19,825	4,590	460,649	
Fuel .....	102,336	-	9,542	44,290	107	4,040	
MUNICIPAL STATIONS .....	2,200,957	230	2,227	56,356	84,307	416,052	
Domestic service .....	1,887,229	208	1,917	48,555	73,082	356,806	
Commercial light .....	261,912	20	261	6,490	9,872	51,460	
Power (small) .....	40,623	-	44	1,089	1,222	6,780	
Power (large) .....	8,802	-	3	157	80	900	
Power (municipal) .....	686	1	1	12	9	45	
Street lighting .....	1,705	1	1	53	42	61	
Non-generating .....	1,076,724	-	-	26,747	29,274	33,346	
Generating .....	1,124,233	230	2,227	29,609	55,033	382,706	
Hydraulic .....	915,810	-	-	24,928	2,779	382,194	
Fuel .....	208,423	230	2,227	4,681	52,254	512	
NON-GENERATING STATIONS .....	1,180,098	183	37	51,775	50,885	53,069	
Domestic service .....	1,006,787	182	37	44,676	42,325	47,137	
Commercial light .....	143,977	-	-	5,712	7,448	4,877	
Power (small) .....	23,595	-	-	1,223	1,015	788	
Power (large) .....	4,181	1	-	111	67	156	
Power (municipal) .....	601	-	-	14	12	14	
Street lighting .....	957	-	-	39	18	97	
GENERATING STATIONS .....	2,089,726	33,443	12,330	93,724	59,730	847,395	
Hydraulic stations .....	1,778,967	33,213	561	44,753	7,369	842,843	
Domestic service .....	1,538,970	29,921	447	38,688	6,149	727,988	
Commercial light .....	200,665	2,835	110	5,121	1,044	98,329	
Power (small) .....	27,685	430	3	804	144	12,907	
Power (large) .....	9,584	16	-	78	23	2,300	
Power (municipal) .....	253	3	-	2	1	188	
Street lighting .....	1,810	8	1	60	8	1,131	
Fuel stations .....	310,759	230	11,769	48,971	52,361	4,552	
Domestic service .....	251,621	208	9,814	41,496	47,066	3,753	
Commercial light .....	47,888	20	1,778	5,762	4,708	747	
Power (small) .....	9,420	-	153	1,636	498	34	
Power (large) .....	943	-	9	61	52	1	
Power (municipal) .....	159	1	2	2	2	2	
Street lighting .....	728	1	13	14	35	15	
Average number of domestic service customers per 100 of population .....	20.40	8.64	10.73	19.57	18.66	19.62	

TABLEAU 7 - NOMBRE D'USAGERS, 1950

Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia	Tukon and N.W.T.	
1,261,667	179,263	121,653	171,938	330,422	2,250	NOMBRE D'USAGERS .....
38,58	5,48	3,72	5,26	10,11	0,07	Pourcentage du total pour le Canada .....
1,104,317	144,122	94,734	134,132	278,417	1,769	Service domestique .....
135,169	24,000	22,278	27,530	44,698	364	Éclairage commercial .....
16,804	5,557	3,674	8,918	6,035	77	Force motrice (petite) .....
4,152	5,143	455	952	1,100	31	Force motrice (grosse) .....
542	21	28	151	24	4	Énergie (municipale) .....
683	420	484	315	148	5	Éclairage des rues .....
38,307	50,750	12,266	68,862	253,219	2,164	NOMBRE D'USAGERS DES USINES COMMERCIALES .....
33,298	40,473	9,899	51,427	214,022	1,711	Service domestique .....
4,266	7,125	1,962	12,644	33,891	342	Éclairage commercial .....
462	579	304	3,882	4,274	76	Force motrice (petite) .....
118	2,553	39	473	960	28	Force motrice (grosse) .....
8	1	1	134	5	3	Énergie (municipale) .....
55	19	61	302	67	4	Éclairage des rues .....
17,610	11,573	378	2,724	3,569	938	Non-génératrices .....
20,597	39,177	11,888	66,138	249,650	1,226	Génératrices .....
19,648	37,813	2	38,698	248,077	81	Hydrauliques .....
949	1,354	11,886	27,440	1,573	1,145	Combustible .....
1,223,460	128,513	109,387	103,136	77,203	86	NOMBRE D'USAGERS DES USINES MUNICIPALES .....
1,071,019	103,649	84,835	82,705	64,395	58	Service domestique .....
130,903	16,875	20,316	14,886	10,807	22	Éclairage commercial .....
16,342	4,978	3,370	5,036	1,761	1	Force motrice (petite) .....
4,034	2,590	416	479	140	3	Force motrice (grosse) .....
534	20	27	17	19	1	Énergie (municipale) .....
628	401	423	13	81	1	Éclairage des rues .....
829,253	64,077	22,757	46,107	25,163	-	Non-génératrices .....
394,207	64,436	86,630	57,029	52,040	86	Génératrices .....
393,093	63,374	-	-	49,439	3	Hydrauliques .....
1,114	1,062	86,630	57,029	2,601	83	Combustible .....
846,863	75,650	23,135	48,831	28,732	938	NOMBRE D'USAGERS DES USINES NON-GÉNÉRATRICES .....
727,420	61,305	18,594	39,898	24,547	666	Service domestique .....
101,303	11,337	3,443	6,165	3,485	207	Éclairage commercial .....
14,108	2,212	1,042	2,594	576	37	Force motrice (petite) .....
3,168	389	38	141	86	24	Force motrice (grosse) .....
519	4	6	14	16	2	Énergie (municipale) .....
345	403	12	19	22	2	Éclairage des rues .....
414,804	103,613	98,518	123,167	301,690	1,312	NOMBRE D'USAGERS DES USINES GÉNÉRATRICES .....
412,741	101,187	2	38,698	297,516	84	Usines hydrauliques .....
375,092	81,103	-	29,029	250,477	76	Service domestique .....
33,632	12,153	-	6,792	40,648	1	Éclairage commercial .....
2,679	3,182	-	2,274	5,262	-	Force motrice (petite) .....
982	4,737	2	432	1,007	7	Force motrice (grosse) .....
22	2	-	29	6	-	Énergie (municipale) .....
334	10	-	142	116	-	Éclairage des rues .....
2,063	2,426	98,516	84,469	4,174	1,228	Usines à combustible .....
1,805	1,714	76,140	65,205	3,393	1,027	Service domestique .....
234	510	18,835	14,573	565	156	Éclairage commercial .....
17	163	2,632	4,050	197	40	Force motrice (petite) .....
2	17	415	379	7	-	Force motrice (grosse) .....
1	15	21	108	2	2	Énergie (municipale) .....
4	7	472	154	10	3	Éclairage des rues .....
24.70	18.77	11.37	14.69	24.49	7.37	Moyenne de consommateurs d'éclairage électrique par 100 habitants ...

TABLE 8 - POLE LINE MILEAGE, 1950

	Canada	Newfound-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
POLE LINE MILEAGE .....	151,726	1,782	617	8,034	6,936	30,182	
Per cent of total for Canada .....	100.00	1.17	0.41	5.30	4.57	19.89	
Miles of steel towers .....	7,987	107	-	21	364	1,656	
Miles of steel poles .....	253	12	-	2	-	174	
Miles of wooden poles .....	140,494	1,546	614	7,996	6,567	27,482	
Miles of concrete poles .....	526	10	-	-	1	-	
Miles of underground and submarine cable ..	2,466	7	3	15	4	870	
<u>COMMERCIAL STATIONS</u>	54,745	1,776	537	3,805	747	26,418	
Non-generating .....	5,706	9	15	824	289	3,568	
Generating .....	49,039	1,767	512	2,981	458	22,850	
Hydraulic .....	44,375	1,767	27	1,764	435	22,516	
Fuel .....	4,664	-	485	1,217	23	334	
<u>MUNICIPAL STATIONS</u>	96,981	6	90	4,229	6,189	3,764	
Non-generating .....	28,721	-	-	809	244	355	
Generating .....	68,260	6	90	3,420	5,945	3,409	
Hydraulic .....	56,285	-	-	3,316	42	3,399	
Fuel .....	11,975	6	90	104	5,903	10	
<u>NON-GENERATING STATIONS</u>	34,427	9	15	1,633	533	3,923	
<u>GENERATING STATIONS</u>	117,299	1,773	602	6,401	6,403	26,259	
Hydraulic .....	100,560	1,767	27	5,080	477	25,915	
Fuel .....	16,639	6	575	1,321	5,926	344	

TABLE 9 - AUXILIARY PLANT EQUIPMENT, 1950

TOTAL PRIMARY POWER .....	H.P.	273,080	982	400	2,730	8,725	43,114
Per cent of total for Canada .....		100.00	0.36	0.15	1.00	3.19	15.79
Steam reciprocating engines .....	No.	13	-	1	3	2	-
Total capacity .....	H.P.	4,818	-	75	1,190	800	-
Steam turbines .....	No.	48	-	-	1	3	8
Total capacity .....	H.P.	233,279	-	-	670	1,925	36,224
Gas and oil engines .....	No.	80	7	3	5	7	12
Total capacity .....	H.P.	34,983	982	325	870	6,000	6,890
TOTAL SECONDARY POWER .....	Kv.A.	234,824	887	262	2,231	7,031	38,702
<u>COMMERCIAL STATIONS</u>							
TOTAL PRIMARY POWER .....	H.P.	88,428	982	400	2,025	4,765	8,710
Steam reciprocating engines .....	No.	13	-	1	3	2	-
Total capacity .....	H.P.	4,818	-	75	1,190	800	-
Steam turbines .....	No.	23	-	-	1	3	3
Total capacity .....	H.P.	67,375	-	-	670	1,925	3,500
Gas and oil engines .....	No.	43	7	3	1	3	8
Total capacity .....	H.P.	16,235	982	325	165	2,040	5,210
TOTAL SECONDARY POWER .....	Kv.A.	73,537	887	262	1,638	3,585	7,283
<u>MUNICIPAL STATIONS</u>							
TOTAL PRIMARY POWER .....	H.P.	184,652	-	-	705	3,960	34,404
Steam reciprocating engines .....	No.	-	-	-	-	-	-
Total capacity .....	H.P.	-	-	-	-	-	-
Steam turbines .....	No.	25	-	-	-	-	5
Total capacity .....	H.P.	165,904	-	-	-	-	32,724
Gas and oil engines .....	No.	37	-	-	4	4	4
Total capacity .....	H.P.	18,748	-	-	705	3,960	1,680
TOTAL SECONDARY POWER .....	Kv.A.	161,287	-	-	593	3,446	31,419

TABLEAU 8 - LONGUEUR (EN MILLES) DES LIGNES SUR POTEAUX, 1950

Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia	Tukon and N.W.T.	
55,454	20,472	5,712	12,108	10,255	174	LONGUEUR (EN MILLES) DES LIGNES SUR POTEAUX .....
36.55	13.49	3.77	7.98	6.76	0.11	Pourcentage du total pour tout le Canada .....
4,593	865	12	35	334	-	Milles de pylones d'acier .....
62	3	-	-	-	-	Milles de poteaux d'acier .....
49,117	19,539	5,668	11,954	9,739	172	Milles de poteaux de bois .....
514	1	-	-	-	-	Milles de poteaux de ciment .....
1,168	64	32	119	182	2	Milles de câbles souterrains et sous-marins .....
1,876	1,521	332	10,898	6,773	72	<u>USINES COMMERCIALES</u>
390	272	8	79	228	24	Non-génératrices .....
1,486	1,249	324	10,819	6,545	48	Génératrices .....
1,465	1,183	12	8,695	6,484	27	Hydrauliques .....
21	66	312	2,124	61	21	A combustible .....
53,578	18,951	5,380	1,210	3,482	102	<u>USINES MUNICIPALES</u>
8,135	18,007	227	600	344	-	Non-génératrices .....
45,443	944	5,153	610	3,138	102	Génératrices .....
45,412	936	-	-	3,088	92	Hydrauliques .....
31	8	5,153	610	50	10	A combustible .....
8,525	18,279	235	679	572	24	<u>USINES NON-GÉNÉRATRICES</u>
46,929	2,193	5,477	11,429	9,683	150	<u>USINES GÉNÉRATRICES</u>
46,877	2,119	12	8,695	9,572	119	Hydrauliques .....
52	74	5,465	2,734	111	31	A combustible .....

TABLEAU 9 - OUTILLAGE AUXILIAIRE, 1950

131,132	15,980	-	18,363	50,894	160	TOTAL, FORCE MOTRICE PRIMAIRE .....	H.P.
48.02	5.85	-	6.34	18.54	0.06	Pourcentage du total pour tout le Canada .....	
-	-	-	7	-	-	Machines à vapeur, à mouvement alternatif .....	Nomb.
-	-	-	2,753	-	-	Capacité totale .....	H.P.
15	5	-	4	11	1	Turbines à vapeur .....	Nomb.
120,720	15,980	-	15,000	42,600	160	Capacité totale .....	H.P.
15	-	-	7	24	-	Moteurs à gaz et à pétrole .....	Nomb.
10,412	-	-	1,210	8,294	-	Capacité totale .....	H.P.
113,100	14,906	-	16,662	40,893	150	TOTAL, FORCE MOTRICE SECONDAIRE .....	Kv.A.
<u>USINES COMMERCIALES</u>							
7,660	-	-	18,963	44,753	160	TOTAL, FORCE MOTRICE PRIMAIRE .....	H.P.
-	-	-	7	-	-	Machines à vapeur, à mouvement alternatif .....	Nomb.
-	-	-	2,753	-	-	Capacité totale .....	H.P.
1	-	-	4	10	1	Turbines à vapeur .....	Nomb.
4,020	-	-	15,000	42,100	160	Capacité totale .....	H.P.
5	-	-	7	9	-	Moteurs à gaz et à pétrole .....	Nomb.
3,640	-	-	1,210	2,663	-	Capacité totale .....	H.P.
6,969	-	-	16,662	36,101	150	TOTAL, FORCE MOTRICE SECONDAIRE .....	Kv.A.
<u>USINES MUNICIPALES</u>							
123,472	15,980	-	-	6,131	-	TOTAL, FORCE MOTRICE PRIMAIRE .....	H.P.
-	-	-	-	-	-	Machines à vapeur, à mouvement alternatif .....	Nomb.
-	-	-	-	-	-	Capacité totale .....	H.P.
14	5	-	-	1	-	Turbines à vapeur .....	Nomb.
116,700	15,980	-	-	500	-	Capacité totale .....	H.P.
10	-	-	-	15	-	Moteurs à gaz et à pétrole .....	Nomb.
6,772	-	-	-	5,631	-	Capacité totale .....	H.P.
106,131	14,906	-	-	4,792	-	TOTAL, FORCE MOTRICE SECONDAIRE .....	Kv.A.

TABLE 10 - TOTAL EQUIPMENT INCLUDING AUXILIARY PLANT EQUIPMENT, 1950

		Canada	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
<u>TOTAL PRIMARY POWER</u>	H.P.	11,976,241	55,961	12,009	264,537	195,621	5,950,343	
Per cent of total for Canada		100.00	0.47	0.10	2.21	1.63	49.68	
Water wheels and turbines	No.	886	28	5	63	14	281	
Total capacity	H.P.	11,029,799	54,715	369	143,958	104,260	5,904,389	
Steam reciprocating engines	No.	23	-	1	5	4	-	
Total capacity	H.P.	52,636	-	75	2,990	2,600	-	
Steam turbines	No.	138	-	4	21	12	8	
Total capacity	H.P.	765,397	-	6,680	114,051	73,795	36,224	
Gas and oil engines	No.	548	11	15	19	28	29	
Total capacity	H.P.	128,409	1,246	4,885	3,538	14,966	9,730	
<u>TOTAL DYNAMO CAPACITY</u>	Kv.A.	9,960,217	47,195	9,297	225,082	168,361	5,070,595	
Per cent of total for Canada		100.00	0.47	0.09	2.26	1.69	50.91	
Dynamos, A.C.	No.	1,529	40	19	107	57	318	
Total capacity	Kv.A.	9,956,359	47,195	8,908	224,782	168,361	5,070,595	
Dynamos, D.C.	No.	54	-	4	1	-	-	
Total capacity	Kw.	3,858	-	389	300	-	-	
<u>COMMERCIAL STATIONS</u>								
<u>TOTAL PRIMARY POWER</u>	H.P.	6,804,494	55,697	7,819	159,372	97,420	4,667,924	
Water wheels and turbines	No.	463	28	5	21	8	197	
Total capacity	H.P.	6,471,350	54,715	369	47,078	91,400	4,656,554	
Steam reciprocating engines	No.	17	-	1	5	2	-	
Total capacity	H.P.	7,026	-	75	2,990	800	-	
Steam turbines	No.	61	-	4	16	4	3	
Total capacity	H.P.	285,848	-	6,680	106,845	2,925	3,500	
Gas and oil engines	No.	253	7	8	8	5	23	
Total capacity	H.P.	40,270	982	695	2,459	2,295	7,870	
<u>TOTAL DYNAMO CAPACITY</u>	Kv.A.	5,674,199	47,046	5,696	136,149	84,610	3,925,872	
Dynamos, A.C.	No.	751	36	12	49	18	223	
Total capacity	Kv.A.	5,671,889	47,046	5,307	135,849	84,610	3,925,872	
Dynamos, D.C.	No.	36	-	4	1	-	-	
Total capacity	Kw.	2,310	-	389	300	-	-	
<u>MUNICIPAL STATIONS</u>								
<u>TOTAL PRIMARY POWER</u>	H.P.	5,171,747	264	4,190	105,165	98,201	1,282,419	
Water wheels and turbines	No.	423	-	-	42	6	84	
Total capacity	H.P.	4,558,449	-	-	96,880	12,860	1,247,835	
Steam reciprocating engines	No.	6	-	-	-	2	-	
Total capacity	H.P.	45,610	-	-	-	1,800	-	
Steam turbines	No.	77	-	-	5	8	5	
Total capacity	H.P.	479,549	-	-	7,206	70,870	32,724	
Gas and oil engines	No.	295	4	7	11	23	6	
Total capacity	H.P.	88,139	264	4,190	1,079	12,671	1,860	
<u>TOTAL DYNAMO CAPACITY</u>	Kv.A.	4,286,018	149	3,601	88,933	83,751	1,144,723	
Dynamos, A.C.	No.	778	4	7	58	39	96	
Total capacity	Kv.A.	4,284,470	149	3,601	88,933	83,751	1,144,723	
Dynamos, D.C.	No.	18	-	-	-	-	-	
Total capacity	Kw.	1,548	-	-	-	-	-	

\* Generating equipment for the Yukon and Northwest Territories is located mainly in the mining and smelting industry.

TABLEAU 10 - OUTILLAGE GLOBAL, Y COMPRIS OUTILLAGE AUXILIAIRE, 1950

Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia	Yukon* and N.W.T.	
3,427,089	612,462	313,125	297,359	836,413	11,322	<u>TOTAL FORCE MOTRICE PRIMAIRE</u> ..... H.P.
28,62	5,11	2,61	2,48	6,98	0,09	Pourcentage du total pour le Canada .....
360	44	6	11	71	3	Turbines et roues hydrauliques ..... Nomb.
3,248,752	594,300	106,500	105,300	757,526	9,730	Capacité totale ..... H.P.
-	-	1	12	-	-	Machines à vapeur, à mouvement alternatif ..... Nomb.
-	-	750	46,221	-	-	Capacité totale ..... H.P.
19	5	26	23	19	1	Turbines à vapeur ..... Nomb.
166,470	15,980	169,149	130,140	52,748	160	Capacité totale ..... H.P.
20	10	174	118	111	13	Moteurs à gaz et à pétrole ..... Nomb.
11,867	2,182	36,726	15,698	26,139	1,432	Capacité totale ..... H.P.
2,749,172	457,394	253,488	257,701	711,974	9,958	<u>CAPACITE TOTALE DES DYNAMOS</u> ..... Kv.A.
27,60	4,59	2,55	2,59	7,15	0,10	Pourcentage du total pour le Canada .....
396	58	171	150	196	17	Dynamos, C.A. ..... Nomb.
2,749,057	457,394	252,855	255,350	711,904	9,958	Capacité totale ..... Kv.A.
2	-	34	11	2	-	Dynamos, C.D. ..... Nomb.
115	-	633	2,351	70	-	Capacité totale ..... Kw.
<u>USINES COMMERCIALES</u>						
449,833	394,212	140,112	159,233	669,800	3,072	<u>TOTAL, FORCE MOTRICE PRIMAIRE</u> ..... H.P.
116	20	6	11	50	1	Turbines et roues hydrauliques ..... Nomb.
395,448	393,300	106,500	105,300	618,686	2,000	Capacité totale ..... H.P.
-	-	-	9	-	-	Machines à vapeur, à mouvement alternatif ..... Nomb.
-	-	-	3,161	-	-	Capacité totale ..... H.P.
5	-	4	10	14	1	Turbines à vapeur ..... Nomb.
49,770	-	31,998	36,300	47,670	160	Capacité totale ..... H.P.
8	7	43	109	25	10	Moteurs à gaz et à pétrole ..... Nomb.
4,615	912	1,614	14,472	3,444	912	Capacité totale ..... H.P.
382,869	271,893	114,823	133,747	569,124	2,370	<u>CAPACITE TOTALE DES DYNAMOS</u> ..... Kv.A.
129	26	30	129	87	12	Dynamos, C.A. ..... Nomb.
382,869	271,893	114,473	132,546	569,054	2,370	Capacité totale ..... Kv.A.
-	-	20	9	2	-	Dynamos, C.D. ..... Nomb.
-	-	350	1,201	70	-	Capacité totale ..... Kw.
<u>USINES MUNICIPALES</u>						
2,977,256	218,250	173,013	138,126	166,613	8,250	<u>TOTAL, FORCE MOTRICE PRIMAIRE</u> ..... H.P.
244	24	-	-	21	2	Turbines et roues hydrauliques ..... Nomb.
2,853,304	201,000	-	-	138,840	7,730	Capacité totale ..... H.P.
-	-	1	3	-	-	Machines à vapeur, à mouvement alternatif ..... Nomb.
-	-	750	43,060	-	-	Capacité totale ..... H.P.
14	5	22	13	5	-	Turbines à vapeur ..... Nomb.
116,700	15,980	137,151	93,840	5,078	-	Capacité totale ..... H.P.
12	3	131	9	86	3	Moteurs à gaz et à pétrole ..... Nomb.
7,252	1,270	35,112	1,226	22,695	520	Capacité totale ..... H.P.
2,366,303	185,501	138,665	123,954	142,850	7,588	<u>CAPACITE TOTALE DES DYNAMOS</u> ..... Kv.A.
267	32	141	21	109	5	Dynamos, C.A. ..... Nomb.
2,366,188	185,501	138,382	122,804	142,850	7,588	Capacité totale ..... Kv.A.
2	-	14	2	-	-	Dynamos, C.D. ..... Nomb.
115	-	283	1,150	-	-	Capacité totale ..... Kw.

\* L'outillage générateur du Yukon et des territoires du Nord-Ouest paraît en majeure partie dans l'industrie de l'exploitation minière et de l'affinage.

TABLE 11 - MAIN PLANT EQUIPMENT, 1950

		Canada	Newfound-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
TOTAL PRIMARY POWER .....	H.P.	11,703,161	54,979	11,609	261,807	186,896	5,907,229	
Per cent of total for Canada .....		100.00	0.47	0.10	2.24	1.60	50.47	
Water Wheels and turbines .....	No.	886	28	5	63	14	281	
Total Capacity .....	H.P.	11,029,799	54,715	369	143,958	104,260	5,904,389	
Steam reciprocating engines .....	No.	10	-	-	2	2	-	
Total Capacity .....	H.P.	47,818	-	-	1,800	1,800	-	
Steam turbines .....	No.	90	-	4	20	9	-	
Total Capacity .....	H.P.	532,118	-	6,680	113,381	71,870	-	
Gas and oil engines .....	No.	458	4	12	14	21	17	
Total Capacity .....	H.P.	93,426	264	4,560	2,668	8,966	2,840	
TOTAL DYNAMO CAPACITY .....	Kv.A.	9,725,393	46,308	9,035	222,851	161,330	5,031,893	
Per cent of total for Canada .....		100.00	0.48	0.09	2.29	1.66	51.74	
Dynamos, A.C. ....	No.	1,398	33	18	99	46	298	
Total Capacity .....	Kv.A.	9,723,149	46,308	8,860	222,851	161,330	5,031,893	
Dynamos, D.C. ....	No.	49	-	2	-	-	-	
Total Capacity .....	Kw.	2,244	-	175	-	-	-	
<b>COMMERCIAL STATIONS</b>								
TOTAL PRIMARY POWER .....	H.P.	6,716,066	54,715	7,419	157,347	92,655	4,659,214	
Per cent of total for Canada .....		100.00	0.82	0.11	2.34	1.38	69.37	
Water Wheels and turbines .....	No.	463	28	5	21	8	197	
Total Capacity .....	H.P.	6,471,350	54,715	369	47,078	91,400	4,656,554	
Steam reciprocating engines .....	No.	4	-	-	2	-	-	
Total Capacity .....	H.P.	2,208	-	-	1,800	-	-	
Steam turbines .....	No.	38	-	4	15	1	-	
Total Capacity .....	H.P.	218,473	-	6,680	106,175	1,000	-	
Gas and oil engines .....	No.	210	-	5	7	2	15	
Total Capacity .....	H.P.	24,035	-	370	2,294	255	2,660	
TOTAL DYNAMO CAPACITY .....	Kv.A.	5,600,662	46,159	5,434	134,511	81,025	3,918,589	
Per cent of total for Canada .....		100.00	0.82	0.10	2.40	1.45	69.97	
Dynamos, A.C. ....	No.	680	29	11	45	11	212	
Total Capacity .....	Kv.A.	5,599,966	46,159	5,259	134,511	81,025	3,918,589	
Dynamos, D.C. ....	No.	31	-	2	-	-	-	
Total Capacity .....	Kw.	696	-	175	-	-	-	
<b>MUNICIPAL STATIONS</b>								
TOTAL PRIMARY POWER .....	H.P.	4,987,095	264	4,190	104,460	94,241	1,248,015	
Per cent of total for Canada .....		100.00	0.01	0.08	2.09	1.89	25.02	
Water Wheels and turbines .....	No.	423	-	-	42	6	84	
Total Capacity .....	H.P.	4,558,449	-	-	96,880	12,860	1,247,835	
Steam reciprocating engines .....	No.	6	-	-	-	2	-	
Total Capacity .....	H.P.	45,610	-	-	-	1,800	-	
Steam turbines .....	No.	52	-	-	5	8	-	
Total Capacity .....	H.P.	313,645	-	-	7,206	70,870	-	
Gas and oil engines .....	No.	258	4	7	7	19	2	
Total Capacity .....	H.P.	69,391	264	4,190	374	8,711	180	
TOTAL DYNAMO CAPACITY .....	Kv.A.	4,124,731	149	3,601	88,340	80,305	1,113,304	
Per cent of total for Canada .....		100.00	0.01	0.09	2.14	1.95	86.99	
Dynamos, A.C. ....	No.	718	4	7	54	35	86	
Total Capacity .....	Kv.A.	4,123,183	149	3,601	88,340	80,305	1,113,304	
Dynamos, D.C. ....	No.	18	-	-	-	-	-	
Total Capacity .....	Kw.	1,548	-	-	-	-	-	
<b>HYDRAULIC STATIONS</b>								
TOTAL DYNAMO CAPACITY .....	Kv.A.	9,155,031	46,159	313	120,670	90,288	5,029,709	
Per cent of total for Canada .....		100.00	0.50	0.01	1.32	0.99	54.94	
Dynamos, A.C. ....	No.	880	29	2	63	14	281	
Total Capacity .....	Kv.A.	9,154,671	46,159	138	120,670	90,288	5,029,709	
Dynamos, D.C. ....	No.	6	-	2	-	-	-	
Total Capacity .....	Kw.	360	-	175	-	-	-	
<b>FUEL STATIONS</b>								
TOTAL DYNAMO CAPACITY .....	Kv.A.	570,362	149	8,722	102,181	71,042	2,184	
Per cent of total for Canada .....		100.00	0.03	1.53	17.92	12.46	0.38	
Dynamos, A.C. ....	No.	518	4	16	36	32	17	
Total Capacity .....	Kv.A.	568,478	149	8,722	102,181	71,042	2,184	
Dynamos, D.C. ....	No.	43	-	-	-	-	-	
Total Capacity .....	Kw.	1,884	-	-	-	-	-	

\* Generating equipment for Yukon and Northwest Territories is located mainly in the mining and smelting industry.

TABLEAU 11 - OUTILLAGE DES USINES PRINCIPALES, 1950

Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia	Yukon* and N.W.T.	
3,295,957	596,482	313,125	278,396	785,519	11,162	TOTAL, FORCE MOTRICE PRIMAIRE ..... H.P.
28,16	5,10	2,68	2,38	6,71	0,09	Pourcentage du total pour le Canada .....
360	44	6	11	71	3	Roues hydrauliques et turbines ..... Nomb.
3,248,752	594,300	106,500	105,300	757,526	9,730	Capacité totale ..... H.P.
-	-	1	5	-	-	Machines à vapeur, à mouvement alternatif ..... Nomb.
-	-	750	43,468	-	-	Capacité totale ..... H.P.
4	-	26	19	8	-	Turbines à vapeur ..... Nomb.
45,750	-	169,149	115,140	10,148	-	Capacité totale ..... H.P.
5	10	174	111	87	13	Moteurs à gaz et à pétrole ..... Nomb.
1,455	2,182	36,726	14,488	17,845	1,432	Capacité totale ..... H.P.
2,636,072	442,488	253,488	241,039	671,081	9,808	CAPACITE DES DYNAMOS ..... Kv.A.
27,10	4,55	2,61	2,48	6,90	0,10	Pourcentage du total pour le Canada .....
368	53	171	134	162	16	Dynamos, C.A. ..... Nomb.
2,635,957	442,488	252,855	239,788	671,011	9,808	Capacité totale ..... Kv.A.
2	-	34	9	2	-	Dynamos, C.D. ..... Nomb.
115	-	633	1,251	70	-	Capacité totale ..... Kw.
442,173	394,212	140,112	140,270	625,037	2,912	USINES COMMERCIALES
6,58	5,87	2,09	2,09	9,31	0,04	TOTAL, FORCE MOTRICE PRIMAIRE ..... H.P.
116	20	6	11	50	1	Pourcentage du total pour le Canada .....
395,448	393,300	106,500	105,300	618,586	2,000	Turbines et roues hydrauliques ..... Nomb.
-	-	-	2	-	-	Capacité totale ..... H.P.
-	-	-	408	-	-	Machines à vapeur, à mouvement alternatif ..... Nomb.
4	-	4	6	4	-	Capacité totale ..... H.P.
45,750	-	31,998	21,300	5,570	-	Turbines à vapeur ..... Nomb.
3	7	43	102	16	10	Capacité totale ..... H.P.
975	912	1,614	13,262	781	912	Moteurs à gaz et à pétrole ..... Nomb.
975,900	271,893	114,823	117,085	533,023	2,220	Capacité totale ..... H.P.
6,71	4,85	2,05	2,09	9,52	0,04	CAPACITE DES DYNAMOS ..... Kv.A.
123	26	30	113	69	11	Pourcentage du total pour le Canada .....
375,900	271,893	114,473	116,984	532,953	2,220	Dynamos, C.A. ..... Nomb.
-	-	20	7	2	-	Capacité totale ..... Kv.A.
-	-	350	101	70	-	Dynamos, C.D. ..... Nomb.
-	-	-	-	-	-	Capacité totale ..... Kw.
2,853,784	202,270	173,013	138,126	160,482	8,250	USINES MUNICIPALES
57,22	4,06	3,47	2,77	3,22	0,17	TOTAL, FORCE MOTRICE PRIMAIRE ..... H.P.
244	24	-	-	21	2	Pourcentage du total pour le Canada .....
2,853,304	201,000	-	-	138,840	7,730	Turbines et roues hydrauliques ..... Nomb.
-	-	1	3	-	-	Capacité totale ..... H.P.
-	-	750	43,060	-	-	Machines à vapeur, à mouvement alternatif ..... Nomb.
-	-	22	13	4	-	Capacité totale ..... H.P.
-	-	137,151	93,840	4,578	-	Turbines à vapeur ..... Nomb.
2	3	131	9	71	3	Capacité totale ..... H.P.
480	1,270	35,112	1,226	17,064	520	Moteurs à gaz et à pétrole ..... Nomb.
2,260,172	170,595	138,665	123,954	138,058	7,588	Capacité totale ..... H.P.
54,79	4,14	3,36	3,00	3,35	0,18	CAPACITE DES DYNAMOS ..... Kv.A.
245	27	141	21	93	5	Pourcentage du total pour le Canada .....
2,260,057	170,595	138,382	122,804	138,058	7,588	Dynamos, C.A. ..... Nomb.
2	-	14	2	-	-	Capacité totale ..... Kv.A.
115	-	283	1,150	-	-	Dynamos, C.D. ..... Nomb.
115	-	-	-	-	-	Capacité totale ..... Kw.
2,597,779	440,600	90,000	83,415	647,448	8,650	USINES HYDRAULIQUES
28,38	4,81	0,98	0,91	7,07	0,09	CAPACITE TOTALE DES DYNAMOS ..... Kv.A.
359	44	6	11	68	3	Pourcentage du total pour le Canada .....
2,597,664	440,600	90,000	83,415	647,378	8,650	Dynamos, C.A. ..... Nomb.
2	-	-	-	2	-	Capacité totale ..... Kv.A.
115	-	-	-	70	-	Dynamos, C.D. ..... Nomb.
115	-	-	-	-	-	Capacité totale ..... Kw.
38,293	1,888	163,488	157,624	23,633	1,158	USINES A COMBUSTIBLE
6,71	0,33	28,66	27,64	4,14	0,20	CAPACITE TOTAL DES DYNAMOS ..... Kv.A.
9	9	165	123	94	13	Pourcentage du total pour le Canada .....
38,293	1,888	162,855	156,373	23,633	1,158	Dynamos, C.A. ..... Nomb.
-	-	34	9	-	-	Capacité totale ..... Kv.A.
-	-	633	1,251	-	-	Dynamos, C.D. ..... Nomb.
-	-	-	-	-	-	Capacité totale ..... Kw.

L'outillage générateur du Yukon et des territoires du Nord-Ouest paraît en majeure partie dans l'industrie de l'exploitation minière et de l'affinage.

TABLE 12 - ELECTRIC ENERGY GENERATED, 1950

	Canada	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
<b>ALL STATIONS</b>						
Total Kilowatt hours generated .....	(thousands)	48,493,718	147,470	29,050	762,339	696,519
Per cent of total for Canada .....		100.00	0.31	0.06	1.57	1.44
Kilowatt hours generated by non-generating stations (thousands) .....		2,214	-	-	-	155
Kilowatt hours generated by generating stations .. (thousands) .....		48,491,504	147,470	29,050	762,339	696,364
Kv.A. capacity of generating stations .....		9,940,306	47,195	9,297	223,439	164,306
Ratio of output to maximum capacity .....	p.c.	55.68	35.67	35.67	38.95	48.39
Average kilowatt hour per Kv.A. ....		4,878	3,125	3,125	3,412	4,239
<b>GENERATING STATIONS</b>						
<b>COMMERCIAL STATIONS</b>						
<b>TOTAL</b>						
Kilowatt hours generated .....	(thousands)	28,430,661	147,297	21,967	498,678	462,801
Kv.A. capacity .....		5,667,282	47,046	5,696	134,661	82,275
Ratio of output to maximum capacity .....	p.c.	57.27	35.74	44.03	42.27	64.21
Average kilowatt hours per Kv.A. ....		5,017	3,131	3,857	3,703	5,625
<b>Hydraulic Stations</b>						
Kilowatt hours generated .....	(thousands)	27,777,563	147,297	714	121,614	453,305
Kv.A. capacity .....		5,458,739	47,046	575	38,688	81,275
Ratio of output to maximum capacity .....	p.c.	58.09	35.74	14.18	35.88	63.66
Average kilowatt hours per Kv.A. ....		5,089	3,131	1,242	3,143	5,577
<b>Fuel Stations</b>						
Kilowatt hours generated .....	(thousands)	653,098	-	21,253	377,064	9,496
Kv.A. capacity .....		208,643	-	5,121	95,973	** 1,000
Ratio of output to maximum capacity .....	p.c.	35.73	-	47.37	44.85	33.89
Average kilowatt hours per Kv.A. ....		3,130	-	4,150	3,929	2,969
<b>MUNICIPAL STATIONS</b>						
<b>TOTAL</b>						
Kilowatt hours generated .....	(thousands)	20,060,843	173	7,083	263,661	233,563
Kv.A. capacity .....		4,272,924	149	3,601	88,778	82,031
Ratio of output to maximum capacity .....	p.c.	53.60	13.25	22.45	33.90	32.50
Average kilowatt hours per Kv.A. ....		4,695	1,161	1,967	2,970	2,847
<b>Hydraulic Stations</b>						
Kilowatt hours generated .....	(thousands)	19,105,872	-	-	256,394	30,584
Kv.A. capacity .....		3,911,205	-	-	82,570	11,989
Ratio of output to maximum capacity .....	p.c.	55.76	-	-	35.45	29.12
Average kilowatt hours per Kv.A. ....		4,885	-	-	3,105	2,551
<b>Fuel Stations</b>						
Kilowatt hours generated .....	(thousands)	954,971	173	7,083	7,267	202,979
Kv.A. capacity .....		361,719	149	3,601	6,208	70,042
Ratio of output to maximum capacity .....	p.c.	30.14	13.25	22.45	13.37	33.08
Average kilowatt hours per Kv.A. ....		2,640	1,161	1,967	1,171	2,898
<b>TOTAL HYDRAULIC STATIONS</b>						
Kilowatt hours generated .....	(thousands)	46,883,435	147,297	714	378,008	483,889
Kv.A. capacity .....		9,369,944	47,046	575	121,258	93,264
Ratio of output to maximum capacity .....	p.c.	57.12	35.74	14.18	35.58	59.22
Average kilowatt hours per Kv.A. ....		5,004	3,131	1,242	3,117	5,188
Kilowatt hours generated by water power .....	(thousands)	46,624,218	146,461	371	378,006	480,431
Kilowatt hours generated by auxiliary plants .....	(thousands)	259,217	836	343	2	3,458
<b>TOTAL FUEL STATIONS</b>						
Kilowatt hours generated .....	(thousands)	1,608,069	173	28,336	384,331	212,475
Kv.A. capacity .....		570,362	149	8,722	102,181	71,042
Ratio of output to maximum capacity .....	p.c.	32.18	13.25	37.09	42.93	34.14
Average kilowatt hours per Kv.A. ....		2,819	1,161	3,249	3,761	2,991
<b>CONSUMPTION OF ELECTRIC ENERGY (Thousands of kilowatt hours)</b>						
Total kilowatt hours generated .....		48,493,718	147,470	29,050	762,339	696,519
Kilowatt hours imported from the United States .....		2,591	-	-	-	17
Kilowatt hours imported from other provinces .....		-	-	-	-	383
Kilowatt hours exported to the United States .....		1,925,867	-	-	-	14,651
Kilowatt hours exported to other provinces .....		-	-	-	-	19,310
<b>KILOWATT HOURS FOR CONSUMPTION IN CANADA</b> .....	(thousands)	46,570,442	147,470	29,050	756,606	665,026
Domestic service .....		6,750,303	40,051	10,536	147,522	97,752
Commercial light .....		2,809,459	17,213	7,815	72,368	54,795
Small power .....		791,959	13,338	2,494	70,274	33,137
Large power .....		30,133,617	53,360	2,610	351,467	419,239
Municipal power .....		781,547	897	740	4,588	2,879
Street lighting .....		303,276	2,537	498	8,268	7,506
Free service (other than street lighting) .....		85,914	2,626	40	1,993	555
Losses .....		4,914,367	17,448	4,327	100,125	49,103

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

\*\* Exports of 639,464,000 kw.hrs. of Quebec power to U.S.A. through Ontario are credited to Ontario. (See page 9, for explanation.)

\*\* Generating equipment is located mainly in other industries.

TABLEAU 12 - ENERGIE ELECTRIQUE GENEREE, 1950

Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia	Yukon and N.W.T.	
12,718,518	2,449,383	903,144	869,064	2,535,412	59,508	<u>TOUTES USINES</u>
26.23	5.05	1.86	1.79	5.23	0.12	Total Kw. heure générées ..... (milliers)
1,707	316	-	-	-	36	Pourcentage du total pour le Canada .....
12,716,811	2,449,067	903,144	869,064	2,535,412	59,472	Kilowatt-heure générées par les usines non-génératrices (milliers)
2,746,265	456,238	253,488	257,701	711,974	9,808	Kilowatt-heure générées par les usines génératrices ..... (milliers)
32.87	61.29	40.67	38.49	40.65		Capacité des usines génératrices en Kv.A. ....
4,631	5,369	3,563	3,372	3,561		Proportion de la production à la capacité maximum .....
						Moyenne de kilowatt-heure par Kv.A. ....
						<u>USINES GENERATRICES</u>
						<u>USINES COMMERCIALES</u>
						<u>TOTAL</u>
1,685,808	1,616,984	565,995	500,009	2,252,083	** 32,613	Kilowatt-heure générées ..... (milliers)
380,025	271,893	114,823	133,747	569,124	2,220	Capacité en Kv.A. ....
50.64	67.89	56.27	42.67	45.17		Proportion de la production à la capacité maximum .....
4,436	5,947	4,929	3,738	3,957		Moyenne de kilowatt-heure par Kv.A. ....
						<u>Usines Hydrauliques</u>
1,641,127	1,615,098	500,720	398,137	2,227,408	** 31,765	Kilowatt-heure générées ..... (milliers)
342,132	271,100	90,000	100,077	562,511	1,500	Capacité en Kv.A. ....
54.76	68.01	53.52	45.41	45.21		Proportion de la production à la capacité maximum .....
4,797	5,958	5,564	3,978	3,960		Moyenne de kilowatt-heure par Kv.A. ....
						<u>Usines à combustible</u>
44,681	1,886	65,275	101,872	24,675	** 848	Kilowatt-heure générées ..... (milliers)
37,893	793	24,823	33,670	6,513	720	Capacité en Kv.A. ....
13.46	27.15	30.02	34.54	42.59		Proportion de la production à la capacité maximum .....
1,179	2,378	2,630	3,026	3,731		Moyenne de kilowatt-heure par Kv.A. ....
						<u>USINES MUNICIPALES</u>
						<u>TOTAL</u>
11,031,003	832,083	337,149	369,055	283,329	26,859	Kilowatt-heure générées ..... (milliers)
2,366,240	184,345	138,665	123,954	142,850	7,588	Capacité en Kv.A. ....
53.22	51.53	27.75	33.98	22.64	40.41	Proportion de la production à la capacité maximum .....
4,662	4,514	2,431	2,977	1,983	3,540	Moyenne de kilowatt-heure par Kv.A. ....
						<u>Usines Hydrauliques</u>
11,039,310	830,291	-	-	256,116	26,731	Kilowatt-heure générées ..... (milliers)
2,365,840	185,250	-	-	125,830	7,150	Capacité en Kv.A. ....
53.22	51.73	-	-	23.23	42.68	Proportion de la production à la capacité maximum .....
4,662	4,531	-	-	2,035	3,739	Moyenne de kilowatt-heure par Kv.A. ....
						<u>Usines à combustible</u>
1,693	1,792	337,149	369,055	27,213	128	Kilowatt-heure générées ..... (milliers)
400	1,095	138,665	123,954	17,020	438	Capacité en Kv.A. ....
48.32	18.69	27.75	33.98	18.25	3.33	Proportion de la production à la capacité maximum .....
4,233	1,637	2,431	2,977	1,599	292	Moyenne de kilowatt-heure par Kv.A. ....
						<u>TOUTES USINES HYDRAULIQUES</u>
12,670,437	2,445,389	500,720	398,137	2,483,524	58,496	Kilowatt-heure générées ..... (milliers)
2,707,972	454,350	90,000	100,077	688,341	8,650	Capacité en Kv.A. ....
53.41	61.44	63.52	45.41	41.19	77.20	Proportion de la production à la capacité maximum .....
4,679	5,382	5,564	3,978	3,608	6,763	Moyenne de kilowatt-heure par Kv.A. ....
						Kilowatt-heure générées par force motrice hydraulique ..... (milliers)
12,552,793	2,445,263	500,720	340,884	2,407,454	58,496	Kilowatt-heure générées par les usines auxiliaires ..... (milliers)
117,644	126	-	57,253	76,070		
						<u>TOUTES USINES A COMBUSTIBLE</u>
45,374	3,678	402,424	470,927	51,888	976	Kilowatt-heure générées ..... (milliers)
38,293	1,888	163,488	157,624	23,633	1,158	Capacité en Kv.A. ....
13.82	22.24	28.09	34.11	25.07	9.62	Proportion de la production à la capacité maximum .....
1,211	1,948	2,481	2,988	2,196	843	Moyenne de kilowatt-heure par Kv.A. ....
						<u>CONSOMMATION D'ENERGIE ELECTRIQUE</u> (En Milliers de Kw.H.)
12,718,518	2,449,383	903,144	869,064	2,535,412	59,508	Total de kilowatt-heure générées .....
-	528	87	226	1,350	-	Kilowatt-heure importés des Etats-Unis .....
5,883,430	474,458	574	16,430	-	-	Kilowatt-heure importés d'autres provinces .....
* 1,685,478	1	-	-	191,952	-	Kilowatt-heure exportés aux Etats-Unis .....
19,277	574	474,458	-	16,430	-	Kilowatt-heure exportés à d'autres provinces .....
						<u>KILOWATT-HEURE CONSOMMES AU CANADA</u> ..... (milliers)
16,897,193	2,923,794	429,347	885,720	2,328,380	59,508	Service domestique .....
3,662,862	689,335	128,221	164,205	607,427	2,515	Eclairage commercial .....
1,251,450	185,802	76,114	120,235	309,356	1,678	Petite force motrice .....
251,731	91,107	38,256	66,184	79,488	851	Grosse force motrice .....
8,810,543	1,505,109	90,011	386,313	956,907	45,861	Energie (municipale) .....
413,601	130,328	14,731	22,480	4,173	5,031	Eclairage des rues .....
142,999	26,838	9,993	13,830	31,771	150	Service gratuit (autre que l'éclairage des rues) .....
7,007	571	291	4,214	1,209	657	Pertes .....
2,357,000	294,704	71,730	108,259	338,049	2,755	

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

\* L'exportation de 639,464,000 kwh d'énergie de Québec aux E.U. en passant par l'Ontario est attribuée à l'Ontario. ( Voir explication,

\*\* L'équipement génératrice est situé principalement dans d'autres industries.

page 9.)

TABLE 13 - FUEL, 1950

	Bituminous Coal - Charbon Bitumineux			
	Canadian - Canadien		Imported - Importé	
	Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur
	Tons Tonnes	\$	Tons Tonnes	\$
Canada .....	X 937,668	X 5,269,450	98,731	833,786
Newfoundland .....	-	-	-	-
Prince Edward Island .....	991	11,164	-	-
Nova Scotia .....	280,139	2,243,541	-	-
New Brunswick .....	152,353	1,324,245	49	702
Quebec .....	1,372	15,565	-	-
Ontario .....	-	-	98,682	833,084
Manitoba .....	-	-	-	-
Saskatchewan .....	X 145,184	X 643,862	-	-
Alberta .....	X 302,577	X 704,079	-	-
British Columbia .....	X 55,052	X 326,994	-	-
Yukon and N.W.T.	-	-	-	-

	Fuel Oil and Diesel Oil		Manufactured Gas	
	Mazout et huile diesel		Gaz fabriqué	
	Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur
	Gal. Gal.	\$	1,000 cu.ft. 1,000 pds.cu.	\$
Canada .....	36,375,949	3,179,725	14,459,871	336,730
Newfoundland .....	110,105	20,283	-	-
Prince Edward Island .....	2,795,298	272,157	-	-
Nova Scotia .....	345,871	52,979	14,455,066	332,467
New Brunswick .....	750,119	129,618	-	-
Quebec .....	780,886	150,898	-	-
Ontario .....	732,611	131,872	4,805	4,263
Manitoba .....	283,033	51,083	-	-
Saskatchewan .....	23,910,832	1,526,673	-	-
Alberta .....	1,175,935	219,966	-	-
British Columbia .....	5,366,808	590,137	-	-
Yukon and N.W.T.	124,451	34,059	-	-

Note: Tons = 2,000 lbs.  
Gallons = Imperial.

X - Includes sub-bituminous coal.

TABLEAU 13 - COMBUSTIBLE, 1950

Lignite Coal - Charbon Lignite		Gasoline	
Canadian - Canadien		Quantity Quantité	Value Valeur
Tons Tonnes	\$		
89,211	137,683	13,930	3,994
-	-	169	42
-	-	6,693	1,775
-	-	-	-
-	-	-	-
-	-	414	129
895	4,412	785	207
-	-	-	-
88,222	132,622	4,004	900
-	-	1,785	918
94	649	80	23
-	-	-	-

Natural Gas		Other Fuel	Total
Gaz naturel		Autre combustible	
Quantity Quantité	Value Valeur	Value Valeur	Value Valeur
1,000 cu.ft. 1,000 pds. cu.	\$	\$	\$
5,298,806	636,949	87,951	10,486,268
-	-	-	20,325
-	-	-	285,096
-	-	43	2,629,030
-	-	-	1,454,565
-	-	-	166,592
-	-	-	973,838
-	-	36,426	87,509
-	-	2,046	2,306,103
5,285,631	631,647	-	1,556,610
13,175	5,302	49,436	972,541
-	-	-	34,059

Note: Tonne = 2,000 livres.  
Gallon = Impérial.

X - Y compris la houille maigre.

TABLE 14 - MAIN PLANT EQUIPMENT CLASSIFIED, 1950

		Canada	Newfound-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
<b>PRIMARY POWER.....</b>	H.P.	11,703,161	54,979	11,609	261,807	186,896	5,907,229	3,295,957
<u>Water wheels and turbines</u> .....	No.	886	28	5	63	14	281	360
Total Capacity .....	H.P.	11,029,799	54,715	369	143,958	104,260	5,904,389	3,248,752
Under 500 H.P. ....	No.	105	6	5	15	2	17	44
Total Capacity .....	H.P.	25,280	1,165	369	4,268	710	4,970	10,423
500 - 1,999 H.P. ....	No.	220	13	-	22	1	55	116
Total Capacity .....	H.P.	240,103	15,200	-	24,600	1,050	59,319	125,114
2,000 - 4,999 H.P. ....	No.	158	8	-	16	6	36	72
Total Capacity .....	H.P.	472,521	24,350	-	56,290	17,500	102,300	208,335
5,000 - 9,999 H.P. ....	No.	103	-	-	10	1	31	28
Total Capacity .....	H.P.	659,295	-	-	58,800	5,000	212,400	173,980
10,000 - 14,999 H.P. ....	No.	87	1	-	-	-	25	47
Total Capacity .....	H.P.	1,016,100	14,000	-	-	-	270,400	563,400
15,000 - 24,999 H.P. ....	No.	59	-	-	-	4	23	14
Total Capacity .....	H.P.	1,123,000	-	-	-	80,000	477,000	243,500
25,000 - 49,999 H.P. ....	No.	90	-	-	-	-	57	15
Total Capacity .....	H.P.	3,170,900	-	-	-	-	2,118,400	447,000
50,000 H.P. and up .....	No.	64	-	-	-	-	37	24
Total Capacity .....	H.P.	4,322,600	-	-	-	-	2,659,600	1,477,000
<u>Steam reciprocating engines</u> .....	No.	10	-	-	2	2	-	-
Total Capacity .....	H.P.	47,818	-	-	1,800	1,800	-	-
Under 500 H.P. ....	No.	2	-	-	-	-	-	-
Total Capacity .....	H.P.	408	-	-	-	-	-	-
500 H.P. and up .....	No.	8	-	-	2	2	-	-
Total Capacity .....	H.P.	47,410	-	-	1,800	1,800	-	-
<u>Steam turbines</u> .....	No.	90	-	4	20	9	-	4
Total Capacity .....	H.P.	532,118	-	6,680	113,381	71,870	-	45,750
Under 500 H.P. ....	No.	1	-	-	-	-	-	-
Total Capacity .....	H.P.	267	-	-	-	-	-	-
500 - 1,999 H.P. ....	No.	23	-	3	4	1	-	-
Total Capacity .....	H.P.	25,249	-	4,180	3,881	1,000	-	-
2,000 - 4,999 H.P. ....	No.	31	-	1	8	3	-	-
Total Capacity .....	H.P.	97,405	-	2,500	24,125	11,000	-	-
5,000 H.P. and up .....	No.	35	-	-	8	5	-	4
Total Capacity .....	H.P.	409,197	-	-	85,375	59,870	-	45,750
<u>Gas and oil engines</u> .....	No.	468	4	12	14	21	17	5
Total Capacity .....	H.P.	93,426	264	4,560	2,668	8,966	2,840	1,455
<b>SECONDARY POWER</b>								
<u>DYNAMOS, A.C. and D.C. ....</u>	No.	1,447	33	20	99	46	298	370
Total Capacity .....	Kv.A.	9,726,393	46,308	9,035	222,851	161,330	5,031,893	2,636,072
<u>DYNAMOS, A.C. ....</u>	No.	1,398	33	18	99	46	298	368
Total Capacity .....	Kv.A.	9,723,149	46,308	8,860	222,851	161,330	5,031,893	2,635,957
Under 50 Kv.A. ....	No.	117	4	2	7	-	1	-
Total Capacity .....	Kv.A.	3,156	149	61	186	-	30	-
50 - 199 Kv.A. ....	No.	225	4	5	7	12	18	23
Total Capacity .....	Kv.A.	24,788	437	368	735	1,323	1,767	3,249
200 - 499 Kv.A. ....	No.	183	4	5	17	7	26	40
Total Capacity .....	Kv.A.	55,869	960	1,486	5,300	2,187	9,081	12,178
500 - 999 Kv.A. ....	No.	153	6	2	16	3	31	65
Total Capacity .....	Kv.A.	108,744	4,000	1,320	10,770	2,250	23,725	46,870
1,000 - 4,999 Kv.A. ....	No.	319	14	4	40	15	53	120
Total Capacity .....	Kv.A.	736,710	30,512	5,625	112,435	33,475	117,033	258,190
5,000 - 9,999 Kv.A. ....	No.	112	-	-	10	3	21	46
Total Capacity .....	Kv.A.	768,175	-	-	62,175	24,710	129,100	345,180
10,000 - 14,999 Kv.A. ....	No.	83	1	-	1	1	31	28
Total Capacity .....	Kv.A.	898,175	10,250	-	12,500	11,760	323,000	302,790
15,000 - 24,999 Kv.A. ....	No.	76	-	-	1	5	25	20
Total Capacity .....	Kv.A.	1,481,625	-	-	18,750	85,625	484,750	415,000
25,000 - 49,999 Kv.A. ....	No.	92	-	-	-	-	69	14
Total Capacity .....	Kv.A.	3,379,007	-	-	-	-	2,448,507	630,500
50,000 Kv.A. and up .....	No.	38	-	-	-	-	23	12
Total Capacity .....	Kv.A.	2,266,900	-	-	-	-	1,494,900	622,000
<u>DYNAMOS, D.C. ....</u>	No.	49	-	2	-	-	-	2
Total Capacity .....	Kw.	2,244	-	175	-	-	-	115
Under 50 Kw. ....	No.	44	-	-	-	-	-	1
Total Capacity .....	Kw.	819	-	-	-	-	-	15
50 - 199 Kw. ....	No.	3	-	2	-	-	-	1
Total Capacity .....	Kw.	275	-	175	-	-	-	100
200 - 499 Kw. ....	No.	1	-	-	-	-	-	-
Total Capacity .....	Kw.	400	-	-	-	-	-	-
500 Kw. and up .....	No.	1	-	-	-	-	-	-
Total Capacity .....	Kw.	750	-	-	-	-	-	-

TABLEAU 14 - OUTILLAGE CLASSIFIÉ DES USINES PRINCIPALES, 1950

Manitoba	Saskat-chewan	Alberta	British Columbia	Yukon and E.W.T.	Commercial	Municipal	
596,482	313,125	278,396	785,519	11,162	6,716,066	4,987,095	<b>FORCE MOTRICE PRIMAIRE .....</b> H.P.
44	6	11	71	3	463	423	Turbines et roues hydrauliques .. Nomb.
594,300	106,500	105,300	757,526	9,730	6,471,360	4,558,449	Capacité totale ..... H.P.
-	-	-	15	1	57	48	Moins de 500 H.P. .... Nomb.
-	-	-	3,185	190	13,431	11,849	Capacité totale ..... H.P.
-	-	1	12	-	106	114	500 - 1,999 H.P. .... Nomb.
-	-	800	14,020	-	107,043	133,060	Capacité totale ..... H.P.
4	-	2	13	1	85	73	2,000 - 4,999 H.P. .... Nomb.
12,800	-	8,000	40,946	2,000	255,371	217,150	Capacité totale ..... H.P.
21	-	4	7	1	43	60	5,000 - 9,999 H.P. .... Nomb.
130,000	-	24,000	47,575	7,540	269,605	389,690	Capacité totale ..... H.P.
8	-	1	5	-	36	51	10,000 - 14,999 .... Nomb.
96,000	-	13,500	58,800	-	407,500	608,600	Capacité totale ..... H.P.
-	6	3	9	-	41	18	15,000 - 24,999 H.P. .... Nomb.
-	106,500	59,000	157,000	-	815,500	307,500	Capacité totale ..... H.P.
11	-	-	7	-	71	19	25,000 - 49,999 H.P. .... Nomb.
355,500	-	-	250,000	-	2,611,900	559,000	Capacité totale ..... H.P.
-	-	-	3	-	24	40	50,000 H.P. et plus ..... Nomb.
-	-	-	186,000	-	1,991,000	2,331,600	Capacité totale ..... H.P.
-	1	5	-	-	4	6	<b>Machines à vapeur .....</b> Nomb.
-	750	43,468	-	-	2,208	45,610	Capacité totale ..... H.P.
-	-	2	-	-	2	-	Moins de 500 H.P. .... Nomb.
-	-	408	-	-	408	-	Capacité totale ..... H.P.
-	1	3	-	-	2	6	500 H.P. et plus ..... Nomb.
-	750	43,060	-	-	1,800	45,610	Capacité totale ..... H.P.
-	26	19	8	-	38	52	<b>Turbines à vapeur .....</b> Nomb.
-	169,149	115,140	10,148	-	218,473	313,645	Capacité totale ..... H.P.
-	1	-	-	-	-	1	Moins de 500 H.P. .... Nomb.
-	267	-	-	-	-	267	Capacité totale ..... H.P.
-	6	2	7	-	7	16	500 - 1,999 H.P. .... Nomb.
-	7,040	2,000	7,148	-	7,750	17,499	Capacité totale ..... H.P.
-	8	10	1	-	16	15	2,000 - 4,999 H.P. .... Nomb.
-	21,730	35,050	3,000	-	51,600	45,805	Capacité totale ..... H.P.
-	11	7	-	-	15	20	5,000 H.P. et plus ..... Nomb.
-	140,112	78,090	-	-	159,123	250,074	Capacité totale ..... H.P.
10	174	111	87	13	210	258	<b>Moteurs à gaz et à pétrole .....</b> Nomb.
2,182	36,726	14,488	17,845	1,432	24,035	69,391	Capacité totale ..... H.P.
							<b>FORCE MOTRICE SECONDAIRE</b>
53	205	143	164	16	711	736	Dynamos, C.A. et C.D. .... Nomb.
442,488	253,488	241,039	671,081	9,808	5,600,662	4,124,731	Capacité totale ..... Kv.A.
53	171	134	162	16	680	718	<b>Dynamos, C.A. ....</b> Nomb.
442,488	252,855	239,788	671,011	9,808	5,599,966	4,123,183	Capacité totale ..... Kv.A.
2	41	38	17	5	78	39	Moins de 50 Kv.A. .... Nomb.
18	1,144	994	411	163	1,992	1,164	Capacité totale ..... Kv.A.
2	45	52	48	9	103	122	50 - 199 Kv.A. .... Nomb.
150	4,939	5,159	5,516	1,145	10,385	14,403	Capacité totale ..... Kv.A.
4	41	9	30	-	58	125	200 - 499 Kv.A. .... Nomb.
1,220	12,771	2,535	8,151	-	16,896	38,973	Capacité totale ..... Kv.A.
1	10	3	16	-	75	78	500 - 999 Kv.A. .... Nomb.
500	6,636	2,040	10,633	-	50,945	57,799	Capacité totale ..... Kv.A.
14	18	20	20	1	153	166	1,000 - 4,999 Kv.A. .... Nomb.
46,350	33,865	53,250	44,475	1,500	366,440	370,270	Capacité totale ..... Kv.A.
11	5	4	11	1	49	63	5,000 - 9,999 Kv.A. .... Nomb.
70,750	28,500	27,060	73,700	7,000	339,493	428,682	Capacité totale ..... Kv.A.
8	5	2	6	-	35	48	10,000 - 14,999 Kv.A. .... Nomb.
80,000	58,500	23,750	75,626	-	407,815	490,360	Capacité totale ..... Kv.A.
9	6	6	4	-	45	31	15,000 - 24,999 Kv.A. .... Nomb.
178,500	106,500	125,000	67,500	-	863,500	618,125	Capacité totale ..... Kv.A.
2	-	-	7	-	60	32	25,000 - 49,999 Kv.A. .... Nomb.
65,000	-	-	235,000	-	1,999,000	1,380,007	Capacité totale ..... Kv.A.
-	-	-	3	-	24	14	50,000 Kv.A. et plus ..... Nomb.
-	-	-	150,000	-	1,543,500	723,400	Capacité totale ..... Kv.A.
-	34	9	2	-	31	18	<b>Dynamos, C.D. ....</b> Nomb.
-	633	1,251	70	-	696	1,548	Capacité totale ..... Kv.
-	34	7	2	-	29	15	Moins de 60 Kw. .... Nomb.
-	633	101	70	-	521	298	Capacité totale ..... Kv.
-	-	-	-	-	2	1	50 - 199 Kw. .... Nomb.
-	-	-	-	-	175	100	Capacité totale ..... Kv.
-	-	1	-	-	-	1	200 - 499 Kw. .... Nomb.
-	-	400	-	-	-	400	Capacité totale ..... Kv.
-	-	1	-	-	-	1	500 Kw. et plus ..... Nomb.
-	-	750	-	-	-	750	Capacité totale ..... Kw.





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