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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

TRANSPORTATION & PUBLIC UTILITIES BRANCH

CENSUS OF INDUSTRY
1944

CENTRAL ELECTRIC STATIONS IN CANADA

(Prepared in collaboration with the Dominion Water and Power Bureau, Department of Mines and Resources)

OTTAWA
1946

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CENTRAL ELECTRIC STATION INDUSTRY, 1944 20-1900

For the purpose of the census, central electric stations are defined as companies, municipalities, or individuals selling or distributing electric energy, whether generated by themselves or purchased for resale. The stations are divided into two classes according to ownership, viz., (a) commercial, those operated by companies or individuals, and (b) municipal, those operated by municipal, provincial or federal governments. The stations are also divided according to operation into (a) generating, those stations generating power which they sell (many of them also purchase power to supplement their own output), and (b) non-generating, those stations which purchase all the power they sell. In this last class there were 21 stations which were holding generating equipment classed as auxiliary plant equipment. Fourteen of them purchased all their electric energy and the remaining seven generated only 1,119,000 kilowatt hours. This explains the rather anomalous item in table 14 showing the output of non-generating stations.

Included in these statistics are those of a few stations engaged primarily in other industries, such as mining, manufacturing of pulp and paper, etc., which sell surplus power. For such plants the statistics pertaining to the central electric station phase of the industry have been segregated as far as possible.

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 outputs of the twelve calendar months shown in the monthly reports. The various data, however, in the annual reports are for comparable periods.

Primary power produced for use in Canada (including line losses) increased from 19,396,231,000 kilowatt hours in 1939 to 35,284,444,000 kilowatt hours in 1944 or by 82 per cent, whereas secondary power consumption declined from 7,033,709,000 to 2,743,121,000 kilowatt hours or by 61 per cent. Primary power consumption continued to show increases each month over that of the corresponding month in the previous year up to May, but for June and each subsequent month decreases were recorded, and according to monthly reports this trend continued throughout 1945. Consumption of secondary power began to show monthly increases in May, 1944, and continued to show increases through 1944 and 1945.

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

SECONDARY POWER FOR USE IN CANADA

(Thousands of Kilowatt Hours)

Month	1941	1942	1943	1944
January	254,150	263,203	129,985	132,138
February	221,700	208,221	126,124	146,975
March	235,823	264,013	148,811	167,028
April	335,398	238,672	189,265	162,288
May	388,909	291,739	263,430	319,574
June	205,865	249,143	239,342	263,938
July	229,452	141,722	199,275	126,336
August	164,271	102,224	184,787	209,721
September	270,359	94,586	181,952	201,485
October	335,863	130,769	136,424	267,605
November	407,939	147,441	158,724	347,940
December	331,706	107,380	155,729	398,093
TOTAL	3,381,435	2,239,113	2,113,848	2,743,121

The pulp and paper industry was the largest consumer of electric energy prior to the war, but because of restrictions on the use of electricity in boilers the total consumption has declined, although the consumption of primary power continued to increase. With the great development in the aluminium industry, it became in 1944 the largest consumer of electric energy; it takes approximately ten kilowatt hours to produce one pound of aluminium. The aluminium industry is included under Metal Smelting and Refining in the following table, which shows the consumptions for groups of industries using large quantities of electricity. Data for the six groups were taken from the industrial census reports, and consumption for other industries was computed by deduction, and consequently is only approximate.

CONSUMPTION OF ELECTRIC ENERGY, 1944

(Thousands of Kilowatt Hours)

Industries	Central Electric Station Power Purchased				Power Generated by the Industries for own use
	Power and Light	Other Purposes	Total Central Electric Stn. Power	P.C. of Total Production	
Pulp and Paper	4,571,598	1,539,241	6,110,839	15.0	1,928,185
Ferro-Alloys	22,333	886,053	908,386	2.2	-
Abrasives	20,229	784,486	804,715	2.0	-
Electro-Chemicals	644,804	1,386,288	2,031,092	5.0	108,658
Metal, Smelting and Refining	974,507	9,453,652	10,428,159	25.7	257,758
Steel Furnaces	86,149	263,175	349,324	.9	73,471
TOTAL	6,319,620	14,312,895	20,632,515	50.8	2,368,072
Other Industries			9,150,852	22.5	
Domestic Service (Residential)			3,046,980	7.5	
Commercial Lighting			1,417,599	3.5	
Street Lighting			198,367	.5	
Free Service			103,337	.2	
Exports to U. S. A.			2,585,311	6.4	
Losses			3,477,915	8.6	
TOTAL OUTPUT OF CENTRAL ELECTRIC STATIONS) Plus Imports (14,097 kw.hrs.))			40,612,876	100.0	

Electricity is exported from Canada only by licence granted by the Electricity and Gas Inspection Services of the Department of Trade and Commerce, and the same branch of the Department has jurisdiction over the export duty which has been imposed since April 1, 1925. During the calendar year ended December 31, 1944, the export duty amounted to $657,009. The rate is three one-hundredths of one cent per kilowatt hour on electric energy exported.

Below is a table showing the quantities of power exported for the calendar year 1944. The data for this table were compiled from the annual reports of the Director of the Electricity and Gas Inspection Services.

KILOWATT HOURS EXPORTED TO THE UNITED STATES

(Calendar Years 1943 and 1944)

Company	Exported 1943	Exported 1944
	Kw. Hrs.	Kw. Hrs.
Hydro-Electric Power Commission of Ontario	394,200,000	395,280,000
" " " " " " (surplus)- Niagara	797,987,458	834,114,105
" " " " " " " - Cornwall	287,376,480	274,102,880
Cedar Rapids Manufacturing and Power Co., Ltd.	645,037,269	627,047,466
Canadian Niagara Power Company, Ltd.	314,512,111	312,033,481
" " " " " (surplus)	30,214,300	64,931,100
Ontario and Minnesota Power Company	35,040,000	38,094,000
Maine and New Brunswick Electric Power Company	30,889,205	29,195,321
British Columbia Electric Railway Company, Ltd.	206,320	248,040
Northport Power and Light Company	16,368	16,444
Southern Canada Power Company	2,505,684	2,261,256
Canadian Cottons, Ltd.	727,100	1,164,000
Northern British Columbia Power Company	18,020	17,290
Fraser Companies, Ltd.	6,885,000	5,293,000
Detroit and Windsor Subway Company	283,300	292,200
Manitoba Power Commission	1,130,420	1,220,133
TOTAL	2,545,038,035	2,585,310,716

Of the total output of 40,598,779,000 kilowatt hours, 39,553,352,000 kilowatt hours, or over 97 per cent, was produced by water power, whereas only 897,529,000 kilowatt hours were produced by plants using only thermal engines and 147,898,000 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 1944, including active and inactive plants, as compiled by the Dominion Water and Power Bureau was 10,283,763 horse power. The available and developed water power in each province is shown below.

POTENTIAL AND DEVELOPED WATER POWER IN CANADA

Province	Available 24 hour Power at 80% Efficiency		Turbine Installation December 31	
	At Ordinary Minimum Flow	At Ordinary Six Months Flow	1 9 4 4	1 9 4 5
	H. P.	H. P.	H. P.	H. P.
Prince Edward Island ..	3,000	5,300	2,617	2,617
Nova Scotia	20,800	128,300	133,384	133,384
New Brunswick	68,600	169,100	133,347	133,347
Quebec	8,459,000	13,064,000	5,848,572	5,848,572
Ontario	5,330,000	6,940,000	2,673,443	2,673,290
Manitoba	3,309,000	5,344,500	422,825	422,825
Saskatchewan	542,000	1,082,000	90,835	90,835
Alberta	390,000	1,049,500	94,997	94,997
British Columbia	7,023,000	10,998,000	864,024	864,024
Yukon and Northwest Territories	294,000	731,000	19,719	19,719
CANADA	25,439,400	39,511,700	10,283,763	10,283,610

The figures in columns 2 and 3 are based only upon rapids, falls and power sites of which the actual drop or head possible of concentration is definitely known or reasonably well established. Many water-powers of greater or less capacity from coast to coast have not yet been recorded which will increase the totals. With the construction of storage basins and other regulating works these potential power figures will be further increased. It is common practice, and feasible in most developments, to install equipment with capacity considerably greater than the theoretical continuous power of the water fall and on this basis it is estimated that the maximum installation capacity of the recorded water-powers of Canada is 51,350,000 horse power.

TABLE 1 - COMPARATIVE SUMMARY, 1934 - 1944

During the year there was a decrease of 2 hydraulic stations and an increase of 6 thermal stations, which was a total increase of 4 stations. Statistics on capital employed in the industry were not collected for 1944. Revenues increased by $10,444,883 or 5.1 per cent, although production increased by only 0.29 per cent. The capacity of generators in main plant was increased by 91,837 Kv.A. or by 1.15 per cent, and the capacity of water wheels and thermal engines was increased by the same percentage or 110,997 h.p. The Quebec Hydro-Electric Commission took over the property of the Montreal Light Heat and Power Consolidated and acquired the stock of the Beauharnois Power Company as at April 16, 1944, and the statistics of these stations for the year have been included with the municipal stations, whereas in previous years they were included with the commercial stations. This transfer causes quite a marked variation in the statistics of the two classes of stations.

TABLE 2 - DOMESTIC SERVICE, 1935 - 1944

This table shows the number of customers, the consumption, revenue, and averages computed from these for domestic service including farm service for 1944 back to 1935. In all provinces the number of customers increased during this period, the percentages ranging from 24 per cent in Manitoba to 61 per cent in New Brunswick. The rate of consumption also increased in all provinces, Prince Edward Island leading here with an increase of 166 per cent. All of the provinces showed increased revenues from domestic service. The average annual consumption per customer varied widely, Manitoba leading with an average in 1944 of 4,234 kw. hrs. per customer and New Brunswick showing the smallest consumption at 670 kw. hrs. There have been relatively small changes in the average annual bills in each province even where the consumptions have shown fairly large increases and the bills for Nova Scotia, New Brunswick, Ontario and British Columbia have been remarkably close together throughout these ten years despite the wide variations in unit costs. The bills do not include federal, provincial or municipal taxes on electricity purchased. Domestic services are further discussed under Table 5 and at the end of this report.

TABLE 3 - POWER PLANTS

The generating stations are the individual power plants of the central electric stations. Each building housing power machinery is counted as a generating station. The commercial organizations are companies and individuals selling electric energy and the municipalities include urban and rural municipalities, provincial commissions, etc., selling electric energy. Those generating power operate from one to several power plants each, the largest system being the Ontario Hydro-Electric Power Commission which operates 51 hydraulic plants and owns one steam auxiliary plant. The auxiliary plants are thermal power equipment belonging to hydraulic systems or non-generating systems and are not included above as generating stations.

TABLE 4 - CAPITAL - Not collected for 1944

TABLE 5 - REVENUES

Central electric stations are required to make a division of customers, consumption and revenue under the following headings: (1) farm service, (2) domestic service, which includes lighting and all other uses in residences, (3) commercial light, (4) power, small, 50 kw. and under, (5) power, large, over 50 kw., (6) sales to distributing companies, and (7) street lighting, also the quantity of electricity supplied without charge to public buildings, etc. The revenue is the gross revenue less cost of power, or is the revenue received from the consumers, except where power is purchased by a station in one province from a station in another province, the cost of such power is not deducted in computing provincial data, but is deducted in computing the Dominion totals. In reports prior to 1932 this exception was not made and consequently the revenues of Ontario, New Brunswick, and Alberta, which purchased power from other provinces, were lower than they should have been.

The average revenues per kilowatt hour sold are affected by many factors and are not always indicative of the relative costs for similar services. The averages for domestic services and for commercial lighting are for more or less identical services for each station, but even here the use of electric stoves, flat rate water heaters, the source of supply, the firm power load, the market for off-peak and surplus power, and the cost of generation, transmission, and distribution all affect the rates. Domestic service data are discussed further at the end of the report. As might be expected, Quebec stations with their enormous sales to pulp and paper mills, aluminium plants, wholesale to Ontario, etc., showed a smaller proportion of revenue from domestic service than any other stations, although greater in dollars than those in other provinces except Ontario. In computing the average revenue per kilowatt hour for all purposes all line losses were included, but for domestic service and farm services, for commercial light, etc., line losses were not included, the consumptions for these services being measured at the consumers' meters. The average revenue per kilowatt hour consumed for each province is the revenue received from ultimate consumers within each province plus revenue received for power exported from the province, divided by the total kilowatt hours so sold including all line losses. The average revenues per kilowatt hour for domestic service are affected by the consumption per customer and by the relative quantities used for lighting, cooking and water heaters; often different rates apply to these different services. In most municipalities when the consumption increases the average cost per kilowatt hour to the consumer decreases. Also where flat rates apply to water heaters the average cost per kilowatt hour for all domestic services is reduced and as the number of flat rate heaters is increased the average for the municipality or province is decreased if not offset by increases in rates elsewhere. The average revenue of 1.75 cents per kilowatt hour for all domestic service compares with an average of 3.51 cents or 3.41 cents including farm services in the United States. 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 tables 12 and 13 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' contracts with Quebec companies which call for 88 kilowatt hours per week for each horse power purchased. It is quite probable this output is a little too high for all the power imported from Quebec, and consequently the divisors are too small and the average revenues are too high. It is not likely the errors are large and the adjusted averages are more nearly comparable with the

averages for the other provinces than the unadjusted averages as shown in reports previous to 1936. The imports into New Brunswick and Alberta are relatively so small that their effects on the averages would be negligible.

The Federal sales tax on domestic service bills has been treated by practically all central electric stations as a tax on the consumer and was not included in either revenues or expenses. The Act placed the tax on the producer or importer, but a subsequent Order in Council allowed the producer or importer to increase the charge to the consumer by the amount of the tax irrespective of any agreements, charters, etc. Only a few stations absorbed this tax, most of them passed it on to the consumer. Also provincial and municipal taxes on domestic bills, where imposed, have not been included as either revenue or expenses.

TABLE 6 - EXPENSES

These data include only the four items, (1) salaries and wages, (2) fuel, (3) taxes, and (4) cost of power. The last is an inter-industry expense and could very well 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. Cost of power includes the cost to municipalities receiving their supply from provincial commissions as well as interchange of power between generating stations and between generating and other non-generating stations. As explained above, the sales taxes on domestic bills have not been included in the taxes shown in this table.

Following is a table detailing the taxes reported by commercial and municipal stations. As stated in the foregoing, under "Revenues" these taxes do not include the federal, provincial and municipal taxes on sales of electricity for domestic use except in the few cases where the station absorbed the tax. They also do not include water rentals. The federal unemployment tax did not apply to all utility employees until September 1, 1943, but all stations apparently did not include the employer payments as a Dominion tax. Also all stations did not include the tax on gasoline used as a tax. It is common practice to treat sales taxes as part of the cost of the commodity. Some stations, however, did include gasoline taxes with their taxes. The Dominion tax included income and excess profits tax, tax on exports of electricity, and the two mentioned above. The greater part of the municipal tax paid by municipal stations was tax payments continued by the Ontario Hydro-Electric Power Commission on plant acquired by the Commission from commercial stations, and in Quebec export taxes and other taxes paid by the newly created Quebec Hydro-Electric Commission.

T A X E S

Province	Commercial Stations				Municipal Stations			
	Municipal	Provincial	Dominion	Total	Municipal	Provincial	Dominion	Total
	$	$	$	$	$	$	$	$
P.E. Island	17,319	1,354	12	18,685	-	-	-	-
Nova Scotia	254,499	9,781	1,168,003	1,432,283	39,001	1,438	113	40,552
New Brunswick	60,134	13,437	181,224	254,795	44	175	3,394	3,613
Quebec	1,599,929	242,511	5,876,092	7,718,532	677,573	16,582	126,790	820,945
Ontario	439,578	9,042	1,630,953	2,079,573	366,772	20,129	404,887	791,788
Manitoba	132,517	1,950	35	134,502	98,176	-	6,439	104,615
Saskatchewan	110,930	30	317,240	428,200	59,148	-	163	59,311
Alberta	44,344	1,606	525,069	571,019	127,754	-	94	127,848
Br. Columbia, Yukon & N.W.T.	340,726	212,235	2,722,514	3,275,475	-	-	7	7
TOTAL	2,999,976	491,946	12,421,142	15,913,064	1,368,468	38,324	541,887	1,948,679
TOTAL-Commercial	2,999,976	491,946	12,421,142	15,913,064				
Municipal	1,368,468	38,324	541,887	1,948,679				
TOTAL	4,368,444	530,270	12,963,029	17,861,743				

TABLE 7 - EMPLOYEES

There was a net increase of 650 employees during the year, Ontario stations showing the only decrease. The following table analyses the hours of work of wage earners in the industry. The majority, 46 per cent, worked a 48 hour week and 26 per cent worked 44 hours or less per week.

NUMBER OF WAGE EARNERS IN MONTH OF HIGHEST EMPLOYMENT WHOSE REGULAR HOURS PER WEEK WERE:

Hours per week	30 or less	31-43	44	45-47	48	49-50	51-54	55	64	65 & over	Total
P.E.I.	3	3	10	5	23	-	-	4	3	-	51
N. S.	112	76	40	10	168	29	79	8	231	43	796
N. B.	120	50	14	32	159	16	21	3	84	17	516
Quebec	237	180	106	107	2,411	289	312	105	572	23	4,342
Ontario	276	473	663	174	2,012	196	632	89	340	70	4,925
Manitoba	146	26	183	2	183	13	44	11	12	4	624
Sask.	62	13	66	21	283	3	12	1	43	7	511
Alberta	30	93	65	3	347	2	9	1	9	1	560
B.C. & Yukon	187	100	186	6	635	18	12	3	53	1	1,201
CANADA	1,173	1,014	1,333	360	6,221	566	1,121	225	1,347	166	13,526
P.C. of Total	8.7	7.5	9.8	2.7	46.0	4.2	8.3	1.6	10.0	1.2	100.0

TABLE 8 - CUSTOMERS

As explained under table 5, stations are required to segregate 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 were combined and shown as "Domestic Customers". Below is a table showing the farm customers as reported, together with the respective consumptions and revenues received from them. These revenues do not include taxes as explained under "Revenues" on page 8. Because of the increasing attention to rural electrification, it is probable that these data are more comprehensive than previously reported. These data, however, are included under "Domestic" in tables 2, 5, 8 and 14 as in previous reports. The relatively large number of farm customers and low average revenue per kilowatt hour in Ontario are undoubtedly due to the assistance given by the Ontario Government to this class of service. The farm customers in Ontario include only farms, whereas in former years rural customers in hamlets were also included.

FARM SERVICE, 1944

	Number of Customers	Kilowatt Hours	Revenue	Kw. Hrs. per Customer	Average Annual Bill (1)	Revenue per Kw.Hr. (1)	P.C.of Dominion Farm Service Consumption
			$		$	¢	%
Pr.Edward Island	929	529,208	39,718	570	42.75	7.5	0.36
Nova Scotia	8,338	4,277,462	262,048	484	29.65	6.1	2.91
New Brunswick	6,815	1,832,898	163,441	269	23.98	8.9	1.25
Quebec	32,711	15,675,628	702,023	479	21.46	4.5	10.67
Ontario	62,303	117,169,762	2,469,124	1,881	39.63	2.1	79.75
Manitoba	1,070	1,026,447	42,552	959	39.77	4.1	0.70
Saskatchewan	293	227,505	22,073	776	75.33	9.7	0.15
Alberta	1,244	1,665,071	94,635	1,338	76.07	5.7	1.13
British Columbia	2,406	4,525,990	127,509	1,881	53.00	2.8	3.08
Canada	116,609	146,929,971	3,923,123	1,260	33.64	2.7	100.00

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

TABLE 9 - POLE LINE MILEAGE

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

TABLES 10-11-12-13 - EQUIPMENT

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 146,779,000 kilowatt hours being generated during the year by this auxiliary equipment.

TABLE 14 - ELECTRIC ENERGY GENERATED

The electric energy generated is the output at the power plants less power used for the operation of the plants, and consequently includes all transformer and line losses entailed in delivering power to the consumers. The Kv.A. capacities shown were the rated dynamo capacities at the close of the year of both main and auxiliary plant of generating stations, but the ratios of output to maximum capacity were computed from the kilowatt hours generated and the rated capacities of dynamos multiplied by the number of hours during the year they were available. Thus, the rated capacity of a 1,000 Kv.A. dynamo for a year would be 8,760,000 kilowatt hours, but, if installed on November 30, its maximum capacity would be only 744,000 kilowatt hours at unity power factor. Consequently, the ratios are directly

comparable for each year irrespective of when large additions are made to the generating capacity of the industry and the rising and falling of 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. In some cases this changes from month to month and from year to year and another factor is the production and sale of secondary power. A marked 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. Since the outbreak of the war the supply of surplus power has been greatly reduced and with war industries working twenty four hours per day the supply of off-peak power has also been reduced so that sales of secondary power have shown a steady decrease up to the middle of 1943 when they began to increase again and continued to increase throughout 1944 and also 1945.

TABLE 15 - FUEL

Fuel used was almost exclusively local coal, oil and gas and stations in Nova Scotia, Saskatchewan and British Columbia were the largest users. The value of Canadian bituminous coal was 47 per cent of the total, lignite coal accounted for 12 per cent, fuel oil and diesel oil for 33 per cent and gasoline gas wood, etc., accounted for the remainder.

DOMESTIC SERVICE

In the following table data on domestics are brought together and analysed. As might be expected the provinces with relatively high percentages of rural populations, Prince Edward Island, Saskatchewan and Alberta, show the lowest number of customers per 100 population. The average cost per kilowatt hour is greatly affected by the nature of the use. Manitoba's low unit cost and high average consumption are influenced by flat rate water heaters in Winnipeg which induce high consumption per customer. There was also a large number of flat rate water heaters in Ontario. Also, 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 large consumption by pulp and paper, aluminium and other electric metallurgical plants.

Domestic customers in Ontario used almost 59 per cent of the total power used by all domestic customers in Canada but the population of this province was almost a third of the total for the Dominion.

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

(1) DOMESTIC SERVICE, 1944

Province	Number of Customers		Average Bill for Year	Average per Kilowatt Hour	Average Annual Consumption		Consumption by Domestic Service	
	Total	Per 100 Population			Per Customer	Per Capita	P.C. of total Provincial Consumption	P.C. of Dominion Dom. Service Consumption
P. E. Island	6,103	6.71	37.78	5.04	750	50	28.7	0.1
Nova Scotia	79,904	13.06	30.53	3.84	795	104	10.9	2.1
New Brunswick	58,860	12.74	30.03	4.48	670	85	7.9	1.3
Quebec	530,396	15.15	21.31	2.53	841	127	2.5	14.6
Ontario	813,356	20.51	28.57	1.30	2,198	451	13.7	58.7
Manitoba	92,073	12.58	42.05	.99	4,234	533	17.5	12.8
Saskatchewan	58,089	6.87	41.28	4.55	908	62	21.6	1.7
Alberta	81,652	9.98	33.04	4.74	698	70	10.2	1.9
B.C. & Yukon	186,019	19.60	28.82	2.60	1,109	217	7.8	6.8
CANADA	1,906,452	15.92	27.96	1.75	1,598	254	8.0	100.0

(1) Includes farm customers.

TABLES

TABLEAUX

TABLE 1 - COMPARATIVE SUMMARY, 1935-1944

PRINCIPAL DATA BY CLASS OF STATION	1944	1943	1942	1941	1940
ELECTRIC POWER PLANTS					
Total	626	622	616	607	602
Hydraulic	320	322	320	313	313
Fuel	306	300	296	294	289
Commercial	424	425	428	424	421
Municipal	202	197	188	183	181
CAPITAL					
Total ..... $	Data not collected in 1944	1,778,224,640	1,747,891,798	1,641,460,451	1,615,438,140
Commercial ..... $		1,149,225,710	1,127,978,332	1,054,714,025	1,049,506,904
Municipal ..... $		628,998,930	619,913,466	586,746,426	565,931,236
Generating ..... $		1,584,624,801	1,559,495,388	1,459,900,540	1,440,026,870
Non-generating ..... $		193,600,139	188,396,410	181,559,911	175,411,270
REVENUE (1)					
Total ..... $	215,246,391	204,801,508	203,835,365	186,018,040	166,228,773
Commercial ..... $	104,986,232	124,730,993	124,611,713	111,851,778	99,887,052
Municipal ..... $	110,260,159	80,070,515	79,223,652	74,166,262	66,341,721
Generating ..... $	185,574,224	175,217,757	173,916,640	157,283,409	139,673,392
Non-generating ..... $	29,672,167	29,583,751	29,918,725	28,734,631	26,555,381
EXPENSES (2)					
Total ..... $	131,289,947	135,555,469	132,581,418	117,758,977	105,044,158
Commercial ..... $	60,470,374	72,579,621	71,133,382	60,561,621	51,990,160
Municipal ..... $	70,819,573	62,975,848	61,448,036	57,197,356	53,053,998
Generating ..... $	79,913,496	81,500,674	80,171,586	69,148,513	60,752,761
Non-generating ..... $	51,376,451	54,054,795	52,409,832	48,610,464	44,291,397
POLE LINE MILEAGE					
Total	80,073	78,063	77,989	77,253	75,050
Commercial	30,877	32,085	31,847	31,442	30,933
Municipal	49,196	45,978	46,062	45,811	44,117
Generating	63,665	61,710	61,927	61,495	59,676
Non-generating	16,408	16,353	15,982	15,758	15,374
CUSTOMERS					
Total	2,238,023	(4) 2,164,861	2,125,304	2,081,270	2,006,508
Domestic service (3)	1,906,452	(4) 1,848,080	1,803,708	1,755,917	1,686,388
Commercial light	273,451	259,640	264,706	268,977	265,175
Power (small)	45,284	44,948	44,813	44,071	43,138
Power (large)	10,376	9,772	9,673	9,934	9,490
Street lighting	2,460	2,421	2,404	2,371	2,317
Commercial stations	753,239	(4) 1,005,316	985,059	954,906	926,093
Municipal stations	1,484,784	1,159,545	1,140,245	1,126,364	1,088,415
Generating stations	1,195,778	1,129,272	1,103,539	1,079,233	1,032,433
Non-generating stations	1,042,245	(4) 1,035,589	1,021,765	1,002,037	982,075
ELECTRIC ENERGY GENERATED					
Total Kilowatt Hours (thousands)	40,598,779	40,479,593	37,355,179	33,317,663	30,109,283
Commercial	25,688,580	31,082,239	28,177,387	24,793,715	22,287,270
Municipal	14,910,199	9,397,354	9,177,792	8,523,948	7,822,013
Exports to the United States ..... (thousands) Kw.h.	2,585,311	2,545,038	2,453,739	2,354,229	2,132,129
Imports from the United States .... (thousands) Kw.h.	14,097	599	594	670	655
EQUIPMENT IN GENERATING STATIONS (Main Plant Only)					
Total Primary Power ..... H.P.	9,713,791	9,602,794	8,613,696	8,157,585	7,935,867
Total in commercial stations ..... H.P.	6,373,523	7,239,936	6,269,386	5,917,160	5,708,664
Total in municipal stations ..... H.P.	3,340,268	2,362,858	2,344,310	2,240,425	2,227,203
Total Secondary Power ..... Kv.A.	8,073,884	7,982,027	7,256,927	6,851,785	6,691,211
Total in commercial stations ..... Kv.A	5,290,874	6,074,895	5,366,769	5,054,727	4,906,268
Total in municipal stations ..... Kv.A.	2,782,990	1,907,132	1,890,158	1,797,058	1,784,943
AUXILIARY PLANT EQUIPMENT					
Primary power ..... H.P.	185,117	194,822	194,966	194,651	194,914
Secondary power ..... Kv.A.	157,866	166,010	166,236	166,021	166,367

(1) Cost of power interchanged between stations excluded from revenue of purchasing stations (see page).
(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, 1935-1944

1939	1938	1937	1936	1935	DONNEES PRINCIPALES PAR CLASSES D'USINES
					USINES ELECTRIQUES
611	589	568	561	566	Total
313	313	314	312	316	Hydrauliques
298	276	254	249	250	A combustible
427	406	389	390	397	Commerciales
184	183	179	171	169	Municipales
					CAPITAL
1,564,603,211	1,545,416,592	1,497,330,231	1,483,116,649	1,459,821,168	Total
1,014,704,665	1,002,891,485	979,950,159	957,466,865	962,263,142	Commerciales
549,898,546	542,525,107	517,380,072	525,649,784	497,558,026	Municipales
1,396,838,921	1,377,120,289	1,337,399,695	1,326,820,103	1,307,710,173	Génératrices
167,764,290	168,296,303	159,930,536	156,296,546	152,110,995	Non-génératrices
					RECETTES (1)
151,880,969	144,331,627	143,546,643	135,865,173	127,177,954	Total
92,535,049	87,697,078	85,283,008	78,882,504	79,341,554	Commerciales
59,345,920	56,634,549	58,263,635	56,982,669	47,836,400	Municipales
127,483,222	120,784,939	120,465,135	112,776,015	105,638,584	Génératrices
24,397,747	23,546,688	23,081,508	23,089,158	21,539,370	Non-génératrices
					DEPENSES (2)
91,982,372	87,364,340	84,185,082	77,939,050	79,625,134	Total
42,471,534	41,067,998	41,132,931	36,530,527	33,836,054	Commerciales
49,510,838	46,296,342	43,052,151	41,408,523	45,789,080	Municipales
51,570,137	48,946,422	46,114,640	41,[illegible]90,019	43,904,771	Génératrices
40,412,235	38,417,918	38,070,442	36,549,031	35,720,363	Non-génératrices
					LIGNES SUR POTEAUX
72,132	66,977	63,035	59,436	57,602	Total
30,288	29,355	28,332	27,271	26,520	Commerciales
41,844	37,622	34,703	32,165	31,082	Municipales
57,084	52,373	48,866	45,099	43,372	Génératrices
15,048	14,604	14,169	14,337	14,230	Non-génératrices
					ABONNES
1,941,863	1,873,621	1,805,995	1,740,793	1,694,703	Total
1,623,672	1,559,394	1,500,126	1,443,059	1,401,983	Service domestique (3)
262,590	259,893	252,305	245,144	240,468	Eclairage commercial
43,896	41,999	41,415	40,742	40,292	Force motrice (petite)
9,267	10,152	10,066	9,840	9,989	Force motrice (grosse)
2,238	2,183	2,081	2,008	1,971	Eclairage des rues
889,416	859,506	833,711	802,676	779,400	Usines commerciales
1,052,245	1,014,115	972,284	938,117	915,303	Usines municipales
998,067	954,797	916,648	866,407	837,278	Usines génératrices
943,596	918,824	889,347	874,386	857,425	Usines non-génératrices
					ENERGIE ELECTRIQUE GENEREE
28,338,030	26,154,160	27,687,645	25,402,282	23,283,033	Total Kw. heures générés (milliers)
21,290,930	19,488,323	20,315,627	18,515,225	17,767,949	Commerciale
7,047,100	6,665,837	7,372,018	6,887,057	5,515,084	Municipale
1,908,756	1,822,103	1,843,227	1,573,980	1,359,021	Exportations d'électricité aux Etats-Unis .....(milliers) Kw.H.
666	624	1,317	765	656	Importations d'électricité des Etats-Unis .....(milliers) Kw.H.
					MACHINERIE DANS LES USINES GENERATRICES (Usines principales seulement)
7,607,122	7,476,976	7,342,085	7,119,272	7,104,142	Total force motrice primaire ..... H.P.
5,385,632	5,300,183	5,203,529	5,012,968	5,138,200	Total dans les usines commerciales .... H.P.
2,221,490	2,176,793	2,138,556	2,106,304	1,965,942	Total dans les usines municipales ..... H.P.
6,435,416	6,327,868	6,206,465	6,025,999	5,893,984	Total force motrice secondaire ..... Kv.A.
4,654,745	4,586,273	4,496,443	4,340,869	4,317,823	Total dans les usines commerciales ... Kv.A.
1,780,671	1,741,595	1,710,022	1,685,130	1,576,161	Total dans les usines municipales .... Kv.A.
					OUTILLAGE D'USINES AUXILIAIRES
194,139	195,628	197,350	200,621	206,831	Force motrice primaire ..... H.P.
165,785	166,660	167,839	172,327	176,890	Force motrice secondaire ..... Kv.A.

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

TABLE 2 - DOMESTIC SERVICE, 1935 - 1944

	Year / Année	Number of Customers / Nombre d'usagers	Kilowatt Hours Consumed / Kilowatt heures consommés	Revenue / Recettes	Kw. Hours per Customer / Consommation moyenne annuelle par usager	Average Annual Bill / Compte moyen de l'année	Revenue per Kilowatt Hour / Moyenne par kilowatt heure
			(000)	$	kw. hrs.	$	¢
CANADA	1935	1,401,983	1,769,848	36,773,643	1,262	26.23	2.08
	1936	1,443,059	1,887,116	38,399,102	1,308	26.61	2.03
	1937	1,500,128	2,007,433	39,253,133	1,338	26.17	1.96
	1938	1,559,394	2,172,500	41,302,107	1,393	26.49	1.90
	1939	1,623,672	2,310,891	43,793,482	1,423	26.97	1.90
	1940	1,686,388	2,436,572	46,444,357	1,445	27.54	1.91
	1941	1,755,917	2,582,405	48,683,162	1,471	27.73	1.89
	1942	1,803,708	2,716,895	50,706,757	1,506	28.11	1.87
	1943	1,852,367	2,843,612	51,307,761	1,535	27.70	1.80
	1944	1,906,452	3,046,980	53,311,353	1,598	27.96	1.75
Change (Changement) 1935 - 1944							
Amount (Volume)		504,469	1,277,132	16,537,710	336	1.73	- 0.33
Per cent (p.c.)		35.98	72.16	44.97	26.62	6.60	- 15.87
PRINCE EDWARD ISLAND	1935	4,199	1,722	134,740	410	32.08	7.82
	1936	4,379	2,035	145,442	465	33.21	7.15
	1937	4,545	2,232	152,660	491	33.59	6.84
	1938	4,799	2,579	150,994	537	31.46	5.85
	1939	5,067	2,908	163,226	574	32.21	5.61
	1940	5,227	3,076	172,643	588	33.03	5.61
	1941	5,531	3,483	183,090	630	33.10	5.26
	1942	5,606	3,580	196,446	639	35.04	5.49
	1943	5,715	3,895	217,914	682	38.13	5.59
	1944	6,103	4,579	230,596	750	37.78	5.04
Change (Changement) 1935 - 1944							
Amount (Volume)		1,904	2,857	95,856	340	5.70	- 2.78
Per cent (p.c.)		45.34	165.91	71.14	8.29	1.78	- 35.55
NOVA SCOTIA	1935	52,300	25,937	1,330,632	496	25.44	5.13
	1936	54,763	29,212	1,457,054	533	26.61	4.99
	1937	58,165	31,692	1,535,298	545	26.40	4.84
	1938	58,556	35,307	1,595,086	603	27.24	4.52
	1939	62,034	39,084	1,709,507	630	27.56	4.37
	1940	65,790	43,277	1,877,812	658	28.54	4.34
	1941	69,997	48,357	2,065,057	691	29.50	4.27
	1942	72,592	50,877	2,166,648	715	29.85	4.18
	1943	x 75,957	57,324	2,156,852	x 755	x 28.40	3.76
	1944	79,904	63,516	2,439,703	795	30.53	3.84
Change (Changement) 1935 - 1944							
Amount (Volume)		27,604	37,579	1,109,071	299	5.09	- 1.29
Per cent (p.c.)		52.78	144.89	83.35	6.02	2.00	- 25.15
NEW BRUNSWICK	1935	36,602	20,597	994,895	563	27.18	4.83
	1936	38,660	22,049	1,068,038	570	27.63	4.84
	1937	41,604	23,488	1,117,953	565	26.87	4.76
	1938	43,556	25,367	1,232,937	582	28.31	4.86
	1939	46,485	26,989	1,307,772	581	28.13	4.85
	1940	50,681	29,388	1,413,237	580	27.88	4.81
	1941	52,831	31,234	1,435,015	591	27.16	4.59
	1942	54,529	34,696	1,563,334	636	28.67	4.51
	1943	56,239	35,294	1,661,550	628	29.54	4.71
	1944	58,860	39,441	1,767,380	670	30.03	4.48
Change (Changement) 1935 - 1944							
Amount (Volume)		22,258	18,844	772,485	107	2.85	- 0.35
Per cent (p.c.)		60.81	91.49	77.64	19.01	10.49	- 7.25
QUEBEC	1935	378,388	226,285	7,297,458	598	19.29	3.22
	1936	390,711	241,799	7,723,973	619	19.77	3.19
	1937	407,155	265,405	8,108,946	652	19.92	3.06
	1938	421,178	287,107	8,669,034	682	20.58	3.02
	1939	434,825	311,420	9,167,384	716	21.08	2.94
	1940	451,791	324,032	9,634,398	717	21.32	2.97
	1941	473,547	342,627	10,100,300	724	21.33	2.95
	1942	488,014	368,173	10,785,887	754	22.10	2.93
	1943	507,765	398,305	10,791,660	784	21.25	2.71
	1944	530,396	446,142	11,304,901	841	21.31	2.53
Change (Changement) 1935 - 1944							
Amount (Volume)		152,008	219,857	4,007,443	243	2.02	- 0.69
Per cent (p.c.)		40.17	97.16	54.92	40.64	10.47	- 21.43

x - Revised.

TABLEAU 2 - SERVICE DOMESTIQUE, 1935 - 1944

	Year / Année	Number of Customers / Nombre d'usagers	Kilowatt Hours Consumed / Kilowatt heures consommés	Revenue / Recettes	Kw. Hours per Customer / Consommation moyenne annuelle par usager	Average Annual Bill / Compte moyen de l'année	Revenue per Kilowatt Hour / Moyenne par kilowatt heure
			(000)	$	kw. hrs.	$	¢
ONTARIO	1935	618,111	1,023,929	17,171,434	1,657	27.78	1.68
	1936	634,052	1,098,598	17,716,636	1,733	27.94	1.61
	1937	660,262	1,174,358	17,718,464	1,779	26.84	1.51
	1938	691,498	1,285,568	18,456,575	1,859	26.69	1.44
	1939	719,871	1,374,325	19,657,658	1,909	27.31	1.43
	1940	745,396	1,459,233	20,928,097	1,958	28.08	1.43
	1941	772,153	1,546,189	21,980,031	2,002	28.47	1.42
	1942	787,721	1,623,780	22,807,897	2,061	28.95	1.40
	1943	801,430	1,682,562	23,000,644	2,099	28.70	1.37
	1944	813,356	1,787,359	23,239,991	2,198	28.57	1.30
Change (Changement) 1935 - 1944							
Amount (Volume)		195,245	763,430	6,068,557	541	.79	- 0.38
Per cent (p.c.)		31.59	74.56	35.34	32.65	2.84	- 22.62
MANITOBA	1935	74,538	289,314	2,914,963	3,881	39.11	1.01
	1936	75,858	296,110	3,029,140	3,903	39.93	1.02
	1937	76,516	303,271	3,122,397	3,963	40.81	1.03
	1938	77,762	311,793	3,223,605	4,010	41.45	1.03
	1939	81,091	320,827	3,311,662	3,956	40.84	1.03
	1940	83,404	330,269	3,423,312	3,960	41.04	1.04
	1941	85,106	343,041	3,472,277	4,031	40.80	1.01
	1942	87,615	355,928	3,570,492	4,062	40.75	1.00
	1943	88,528	374,169	3,712,351	4,226	41.93	.99
	1944	92,073	389,865	3,871,419	4,234	42.05	.99
Change (Changement) 1935 - 1944							
Amount (Volume)		17,535	100,551	956,456	353	2.94	- .02
Per cent (p.c.)		23.52	34.75	32.81	9.10	7.52	- 1.98
SASKATCHEWAN	1935	45,451	35,402	1,795,683	779	39.51	5.07
	1936	46,478	36,044	1,851,794	776	39.84	5.14
	1937	46,630	37,234	1,852,503	798	39.73	4.98
	1938	48,060	39.077	1,903,731	813	39.61	4.87
	1939	49,980	41,198	2,004,433	824	40.10	4.87
	1940	51,425	43,406	2,093,205	844	40.70	4.82
	1941	52,695	45,448	2,173,255	862	41.24	4.78
	1942	54,132	46,858	2,173,896	868	40.16	4.64
	1943	55,500	48,996	2,257,885	883	40.68	4.61
	1944	58,089	52,724	2,397,702	908	41.28	4.55
Change (Changement) 1935 - 1944							
Amount (Volume)		12,638	17,322	602,019	129	1.77	- .52
Per cent (p.c.)		27.81	48.92	33.53	16.56	4.48	- 10.26
ALBERTA	1935	58,127	31,636	1,714,128	544	29.49	5.42
	1936	59,600	33,481	1,789,422	562	30.02	5.34
	1937	61,121	35,339	1,865,520	578	30.52	5.28
	1938	63,030	38,089	1,985,226	604	31.46	5.21
	1939	68,267	42,210	2,145,093	618	31.42	5.08
	1940	69,397	45,110	2,275,091	650	32.78	5.04
	1941	72,422	47,572	2,393,189	657	33.05	5.03
	1942	74,814	49,089	2,393,073	656	31.99	4.87
	1943	77,810	52,100	2,514,031	670	32.31	4.83
	1944	81,652	56,977	2,698,155	698	33.04	4.74
Change (Changement) 1935 - 1944							
Amount (Volume)		23,525	25,341	984,027	154	3.55	- 0.68
Per cent (p.c.)		40.47	80.10	57.41	28.31	12.04	-12.55
BRITISH COLUMBIA AND YUKON	1935	134,267	115,026	3,419,710	857	25.47	2.97
	1936	138,558	127,788	3,617,603	922	26.11	2.83
	1937	144,130	134,414	3,779,392	933	26.22	2.81
	1938	150,955	147,613	4,086,919	978	27.07	2.77
	1939	156,052	151,930	4,320,747	974	27.73	2.85
	1940	163,277	158,781	4,626,562	972	28.34	2.91
	1941	171,635	174,454	4,880,948	1,016	28.44	2.80
	1942	178,685	182,914	5,049,084	1,024	28.26	2.76
	1943	179,136	190,967	4,994,894	1,066	27.88	2.62
	1944	186,019	206,377	5,361,506	1,109	28.82	2.60
Change (Changement) 1935 - 1944							
Amount (Volume)		51,752	91,351	1,941,796	252	3.35	- 0.37
Per cent (p.c.)		38.54	79.42	56.78	29.40	13.15	- 12.46

x - Revisé.

TABLE 3 - ELECTRIC POWER PLANTS, 1944

	Canada	Prince Edward Island	Nova Scotia	New Brunswick
Total number of generating stations	626	9	49	14
Per cent of total for Canada	100.00	1.44	7.83	2.24
COMMERCIAL	424	7	22	8
Hydraulic	205	4	13	5
Fuel	219	3	9	3
MUNICIPAL	202	2	27	6
Hydraulic	115	-	20	3
Fuel	87	2	7	3
With water wheels and turbines	320	4	33	8
With steam engines only	22	-	1	1
With steam turbines only	25	1	7	1
With gas or oil engines only	254	4	7	3
With both steam engines and turbines	4	-	1	1
With both steam and gas or oil engines	1	-	-	-
With alternating current dynamos only	484	9	49	12
With direct current dynamos only	140	-	-	1
With both alternating and direct current dynamos	2	-	-	1
COMMERCIAL ORGANIZATIONS	X 395	7	20	15
Number generating power	292	5	13	7
Number buying power for redistribution	102	2	7	8
MUNICIPALITIES	X 470	2	23	10
Number generating power	82	2	8	2
Number buying power for redistribution	386	-	15	8
AUXILIARY PLANTS	60	1	7	2
To hydraulic stations	45	1	3	-
To non-generating stations	15	-	4	2

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

TABLEAU 3 - USINES GENERATRICES, 1944

Quebec	Ontario	Manitoba	Saskat-chewan	Alberta	British Columbia & Yukon	
101	134	22	145	79	73	Nombre d'usines génératrices
10.13	21.41	3.51	23.16	12.62	11.66	Pourcentage du total pour le Canada
78	60	14	104	68	63	COMMERCIALES
76	57	4	-	4	42	Hydrauliques
2	3	10	104	64	21	A combustible
23	74	8	41	11	10	MUNICIPALES
20	65	2	-	-	5	Hydrauliques
3	9	6	41	11	5	A combustible
96	122	6	-	4	47	Avec roues et turbines hydrauliques
1	5	1	1	7	5	Avec machines à vapeur seulement
1	-	1	7	4	3	Avec turbines à vapeur seulement
3	7	13	136	63	17	Avec moteurs à gaz ou à pétrole seulement
-	-	-	1	1	-	Avec machines et turbines à vapeur à la fois
-	-	1	-	-	-	Avec machines à vapeur à gaz et à pétrole
100	132	20	53	40	69	Avec dynamos à courant alternatif seulement
1	2	2	92	38	4	Avec dynamos à courant direct seulement
-	-	-	-	1	-	Avec dynamos à courant alternatif et direct
62	61	16	87	70	56	USINES COMMERCIALES
38	36	10	85	58	40	Nombre d'usines génératrices
24	25	6	2	12	16	Nombre d'usines achetant de l'électricité pour la revendre
32	330	8	30	16	17	MUNICIPALITES
13	15	4	22	9	7	Nombre d'usines génératrices
19	315	4	8	7	10	Nombre d'usines achetant de l'électricité pour la revendre
9	9	3	-	8	21	USINES AUXILIAIRES
8	6	2	-	8	17	Aux usines hydrauliques
1	3	1	-	-	4	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 5 - REVENUE, 1944 (1)

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
	$	$	$	$	$
REVENUE FROM SALE OF ELECTRIC ENERGY	215,246,391	544,797	8,571,952	≠ 5,253,288	≠ 87,264,990
For domestic service	53,811,353	230,596	2,439,705	1,767,580	11,304,901
For commercial light	30,505,456	143,278	1,642,080	878,958	8,392,547
For power (small)	11,546,203	48,709	851,732	537,429	2,648,793
For power (large)	115,309,675	102,146	3,432,732	≠ 2,126,647	63,939,232
For street lighting	4,573,704	20,068	205,705	142,874	979,517
REVENUE OF COMMERCIAL STATIONS	104,986,232	382,011	6,028,955	2,749,776	56,237,596
Non-generating	7,440,645	1,488	747,976	524,456	159,238
Generating	97,545,587	380,523	5,280,979	2,225,320	56,078,358
Hydraulic	88,484,856	14,431	1,193,574	1,565,188	56,035,800
Fuel	9,060,731	366,092	4,087,405	660,132	42,558
REVENUE OF MUNICIPAL STATIONS	110,260,159	162,786	2,542,997	2,505,512	31,027,394
Non-generating	22,231,522	-	362,752	566,389	650,383
Generating	88,028,637	162,786	2,180,245	1,937,123	30,377,011
Hydraulic	78,669,809	-	1,789,804	89,740	30,266,964
Fuel	9,358,828	162,786	390,441	1,847,383	110,047
Revenue of non-generating stations	29,672,167	1,488	1,110,728	1,090,845	809,621
Revenue of generating stations	185,574,224	543,309	7,461,224	4,162,443	86,455,369
Revenue of hydraulic stations	167,154,665	14,431	2,983,378	1,654,928	86,302,764
Revenue of fuel stations	18,419,559	528,878	4,477,846	2,507,515	152,605
Average revenue per H.P. of primary power	22.16	59.12	41.87	34.73	16.16
Average revenue per H.P. in main and auxiliary plants	21.74	58.27	41.35	34.12	16.05
Average revenue per Kv.A. of dynamo capacity	26.66	78.44	50.53	40.64	19.08
Average revenue per Kv.A. in main and auxiliary plants	26.15	77.91	49.96	40.01	18.94
Average revenue per kilowatt hour consumed ..... Cents	.53	3.41	1.45	.99	.37
Average revenue per domestic service customer	27.96	37.78	30.58	30.03	21.31
Average revenue per commercial light customer	111.56	119.40	145.23	124.43	115.09
Average revenue per small power customer	254.97	468.36	342.47	305.09	252.84
Average revenue per large power customer	11,113.11	11,349.55	16,424.55	8,715.77	41,954.87
Average revenue per kilowatt hour - domestic and farm service ..... Cents	1.75	5.04	3.34	4.48	2.53
Average revenue per kilowatt hour - commercial light ..... Cents	2.15	4.48	3.72	3.15	2.39

≠ Affected by power purchased from other province. X Adjusted for power purchased from Quebec plants.

(1) Gross revenue less cost of power interchanged between stations.

TABLEAU 5 - RECETTES, 1944 (1)

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	
$	$	$	$	$	
≠83,431,485	10,923,576	6,753,716	≠ 8,801,413	18,149,373	RECETTES PROVENANT DE LA VENTE D'ELECTRICITE
23,239,991	3,871,419	2,397,702	2,638,155	5,361,506	Pour éclairage domestique
9,304,036	2,056,262	1,973,795	2,265,860	3,848,640	Pour éclairage commercial
4,540,555	458,246	932,803	858,523	869,413	Pour force motrice (petite)
44,315,655	4,290,690	1,151,557	2,695,642	7,683,573	Pour force motrice (grosse)
2,011,248	246,959	297,859	283,233	386,241	Pour éclairage des rues
14,065,070	5,710,643	2,518,627	4,123,184	17,077,299	RECETTES DES USINES COMMERCIALES
3,604,372	259,996	194,187	101,201	4,687,007	Non-génératrices
10,460,698	5,450,647	2,324,440	4,021,983	12,390,292	Génératrices
10,436,806	5,358,168	-	3,025,409	11,923,133	Hydrauliques
23,892	92,479	2,324,440	996,574	467,159	A combustible
69,346,415	5,212,933	4,235,080	4,678,229	1,072,074	RECETTES DES USINES MUNICIPALES
16,201,606	1,403,220	876,732	1,588,648	629,601	Non-génératrices
53,144,809	3,809,713	3,358,357	3,089,581	442,473	Génératrices
53,054,801	3,635,201	-	-	306,760	Hydrauliques
90,008	174,512	3,358,357	3,089,581	135,713	A combustible
19,805,978	1,663,216	1,070,919	1,689,849	5,316,608	Recettes des usines non-génératrices
63,605,507	9,260,360	5,682,797	7,111,564	12,832,765	Recettes des usines génératrices
63,491,607	8,993,369	-	3,025,409	12,229,893	Recettes des usines hydrauliques
113,900	266,991	5,682,797	4,086,155	602,872	Recettes des usines à combustible
X 24.10	21.34	39.97	44.45	24.96	Moyenne de recettes par H.P. de machinerie primaire
X 23.82	20.15	39.97	40.57	23.29	Moyenne de recettes par H.P. de machinerie principale et auxiliaire
X 30.69	26.00	47.56	53.26	30.60	Moyenne de recettes par Kv.A. de capacité de dynamos
X 30.52	24.90	47.28	48.38	28.59	Moyenne de recettes par Kv.A. de capacité des dynamos, usines principales et auxiliaires
.53	.49	2.77	1.57	.69	Moyenne de recettes par Kw. heure ..... (cents)
28.57	42.05	41.28	33.04	28.82	Moyenne de recettes par abonnés d'éclairage domestique
92.47	109.51	123.00	131.51	136.04	Moyenne de recettes par abonnés d'éclairage commercial
317.21	126.48	319.34	150.25	191.54	Moyenne de recettes par abonnés pour petite force motrice
13,865.97	1,201.20	9,758.96	4,576.64	8,397.47	Moyenne de recettes par abonnés pour grosse force motrice
1.30	.09	4.55	4.74	2.60	Moyenne de recettes par Kw. heure-service domestique et de ferme ..... (cents)
1.43	1.93	4.30	3.89	2.97	Moyenne de recettes par Kw. heure - service commercial (cents)

≠ Affecté par énergie achetée d'une autre province. X Ajusté pour achats de courant des usines du Québec.

(1) Revenu brut moins le coût de l'énergie échangée entre stations.

TABLE 6 - ✓ EXPENSES, 1944

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
	$	$	$	$	$
TOTAL EXPENSES	131,289,947	257,528	7,887,018	2,779,993	30,740,494
Per cent of total for Canada	100.00	0.20	6.01	2.12	23.41
Salaries and wages	36,945,296	91,128	1,688,210	738,235	10,523,913
Fuel	5,488,483	145,835	1,289,946	664,798	50,490
Taxes (x)	17,881,743	18,685	1,472,835	258,408	8,539,477
Cost of power	70,994,425	1,880	3,436,027	1,118,552	11,626,614
TOTAL FOR COMMERCIAL STATIONS	60,470,374	207,989	6,248,461	1,468,415	22,556,650
Salaries and wages	16,809,429	75,789	1,212,473	383,440	7,887,786
Fuel	3,430,267	111,635	1,156,934	222,204	7,204
Taxes	15,913,064	18,685	1,432,283	254,795	7,718,532
Cost of power	24,317,614	1,880	2,446,771	607,976	6,943,128
Non-generating stations	12,713,986	1,880	1,008,757	882,213	101,525
Generating stations	47,756,388	206,109	5,239,704	586,202	22,455,125
Hydraulic stations	40,432,274	737	714,240	190,615	22,435,051
Fuel stations	7,324,114	205,372	4,525,464	395,587	20,074
TOTAL FOR MUNICIPAL STATIONS	70,819,573	49,539	1,638,557	1,311,578	8,183,844
Salaries and wages	20,135,867	15,339	475,737	354,795	2,636,127
Fuel	2,058,216	34,200	133,012	442,594	43,286
Taxes	1,948,679	-	40,552	3,613	820,945
Cost of power	46,676,811	-	989,256	510,576	4,683,486
Non-generating stations	38,662,465	-	906,163	575,814	522,497
Generating stations	32,157,108	49,539	732,394	735,764	7,661,347
Hydraulic stations	28,383,800	-	309,327	36,091	7,597,806
Fuel stations	3,773,308	49,539	423,067	699,673	63,541
TOTAL EXPENSES FOR NON-GENERATING STATIONS	51,376,451	1,880	1,914,920	1,458,027	624,022
Salaries and wages	9,277,241	-	351,834	276,614	196,050
Fuel	11,514	-	480	-	-
Taxes	1,559,674	-	224,139	132,967	8,704
Cost of power	40,528,022	1,880	1,338,467	1,048,446	419,288
TOTAL EXPENSES FOR GENERATING STATIONS	79,913,496	255,648	5,972,098	1,321,966	30,116,472
Salaries and wages	27,668,055	81,128	1,336,376	461,621	10,327,863
Fuel	5,476,969	145,835	1,289,466	664,798	50,490
Taxes	16,302,069	18,685	1,248,696	125,441	8,530,773
Cost of power	30,466,403	-	2,097,560	70,106	11,207,346
Hydraulic stations	68,816,074	737	1,023,567	226,706	30,032,857
Fuel stations	11,097,422	254,911	4,948,531	1,095,260	83,615

(x) Sales tax not included (see pages

✓ Includes only the four items listed

TABLEAU 6 - ≠ DEPENSES, 1944

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	
$	$	$	$	$	
64,063,052	3,369,582	3,637,878	3,987,659	14,566,743	TOTAL DES DEPENSES
48.80	2.56	2.77	3.04	11.09	Pourcentage du total pour le Canada
15,622,851	2,279,382	1,109,327	1,312,389	3,579,861	Salaires et gages
36,250	81,494	1,203,011	764,313	1,252,346	Combustible
2,871,361	239,117	487,511	698,867	3,275,482	Taxes (x)
45,532,590	769,589	838,029	1,212,090	6,459,054	Achat d'énergie électrique
11,281,340	1,500,629	1,483,637	1,791,353	13,931,900	TOTAL POUR LES USINES COMMERCIALES
1,918,036	898,786	439,608	679,458	3,314,053	Salaires et gages
18,262	15,715	451,810	219,424	1,227,079	Combustible
2,079,575	134,502	428,200	571,019	3,275,475	Taxes
7,265,469	451,626	164,019	321,452	6,115,293	Achat d'énergie électrique
3,272,076	485,185	146,203	43,222	6,772,925	Usines non-génératrices
8,009,264	1,015,444	1,337,434	1,748,131	7,158,975	Usines génératrices
7,995,241	971,691	-	1,226,743	6,897,956	Usines hydrauliques
14,023	43,753	1,337,434	521,388	261,019	Usines à combustible
52,781,712	1,868,953	2,154,241	2,196,306	654,843	TOTAL POUR LES USINES MUNICIPALES
13,704,815	1,380,596	689,719	632,931	265,808	Salaires et gages
17,988	65,779	751,201	544,889	25,267	Combustible
791,788	104,615	59,311	127,848	7	Taxes
38,267,121	317,963	674,010	890,638	343,761	Achat d'énergie électrique
33,449,526	681,202	796,905	1,214,848	515,510	Usines non-génératrices
19,332,186	1,187,751	1,357,336	981,458	119,333	Usines génératrices
19,297,353	1,076,737	-	-	66,486	Usines hydrauliques
34,833	111,014	1,357,336	981,458	52,847	Usines à combustible
36,721,602	1,166,387	943,108	1,258,070	7,288,435	TOTAL DES DEPENSES DES USINES NON-GENERATRICES
6,112,810	391,864	128,866	241,705	1,577,498	Salaires et gages
6,572	-	-	-	4,462	Combustible
272,221	14,487	85,559	103,854	717,743	Taxes
30,329,999	760,036	728,683	912,511	4,988,732	Achat d'énergie électrique
27,341,450	2,203,195	2,694,770	2,729,589	7,278,308	TOTAL DES DEPENSES DES USINES GENERATRICES
9,510,041	1,887,518	980,461	1,070,684	2,002,363	Salaires et gages
29,678	81,494	1,203,011	764,313	1,247,884	Combustible
2,599,140	224,630	401,952	595,013	2,557,739	Taxes
15,202,591	9,553	109,346	299,579	1,470,322	Achat d'énergie électrique
27,292,594	2,048,428	-	1,226,743	6,964,442	Usines hydrauliques
48,856	154,767	2,694,770	1,502,846	313,866	Usines à combustible

≠ Ne comprend que les quatre item énumérés.

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

TABLE 7 - EMPLOYEES, 1944

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
TOTAL NUMBER OF PERSONS EMPLOYED	19,770	76	1,043	677	5,690
Per cent of total for Canada	100.00	.38	5.28	3.42	28.78
Officers, clerks, other salaried employees, etc.	7,129	30	372	197	1,389
Employees on wages	12,641	46	671	480	4,001
TOTAL EMPLOYEES IN COMMERCIAL STATIONS	9,182	61	674	266	4,249
Officers, clerks, other salaried employees, etc.	2,677	24	183	102	980
Employees on wages	6,505	37	491	164	3,269
Non-generating	1,134	-	134	114	30
Generating	8,048	61	540	152	4,219
Hydraulic	7,001	1	146	73	4,212
Fuel	1,047	60	394	79	7
TOTAL EMPLOYEES IN MUNICIPAL STATIONS	10,588	15	369	411	1,441
Officers, clerks, other salaried employees, etc.	4,452	6	189	95	709
Employees on wages	6,136	9	180	316	732
Non-generating	3,948	-	92	81	102
Generating	6,640	15	277	330	1,339
Hydraulic	5,614	-	203	14	1,324
Fuel	1,026	15	74	316	15
TOTAL EMPLOYEES IN NON-GENERATING STATIONS	5,082	-	226	195	132
Officers, clerks, other salaried employees, etc.	2,682	-	95	105	54
Employees on wages	2,400	-	131	90	78
TOTAL EMPLOYEES IN GENERATING STATIONS	14,688	76	817	482	5,578
Officers, clerks, other salaried employees, etc.	4,447	30	277	92	1,635
Employees on wages	10,241	46	540	390	3,923
Hydraulic	12,615	1	349	87	5,536
Fuel	2,073	75	468	395	22

TABLEAU 7 - EMPLOYES, 1944

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	
7,568	1,373	699	785	1,859	TOTAL DU PERSONNEL OCCUPE
38.28	6.95	3.54	3.97	9.40	Pourcentage du total pour le Canada
3,109	545	194	249	744	Administrateurs, directeurs, commis et tous employés des bureaux
4,459	828	505	536	1,115	Ouvriers et journaliers
997	500	318	434	1,683	PERSONNEL DES USINES COMMERCIALES
264	220	77	132	695	Administrateurs, directeurs, commis et tous employés des bureaux
733	280	241	302	988	Ouvriers et journaliers
70	12	48	10	716	Non-génératrices
927	488	270	424	967	Génératrices
921	468	-	283	897	Hydrauliques
6	20	270	141	70	Combustible
6,571	875	381	351	176	PERSONNEL DES USINES MUNICIPALES
2,845	325	117	117	49	Administrateurs, directeurs, commis et tous employés des bureaux
3,726	548	264	234	127	Ouvriers et journaliers
3,086	280	55	133	119	Non-génératrices
3,485	593	326	218	57	Génératrices
3,473	560	-	-	40	Hydrauliques
12	33	326	218	7	Combustible
3,156	292	103	143	835	PERSONNEL DES USINES NON-GENERATRICES
1,769	94	37	73	455	Administrateurs, directeurs, commis et tous employés des bureaux
1,387	198	66	70	380	Ouvriers et journaliers
4,412	1,081	596	642	1,024	PERSONNEL DES USINES GENERATRICES
1,340	451	157	176	289	Administrateurs, directeurs, commis et tous employés des bureaux
3,072	630	439	466	735	Ouvriers et journaliers
4,394	1,028	-	283	937	Hydrauliques
18	53	596	359	87	Combustible

TABLE 8 - NUMBER OF CUSTOMERS, 1944

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
NUMBER OF CUSTOMERS	2,238,023	7,429	93,986	67,322	610,152
Per cent of total for Canada	100.00	.33	4.20	3.01	27.53
Domestic service	1,906,452	6,103	79,904	58,860	530,396
Commercial light	273,451	1,200	11,307	7,064	72,924
Power (small)	45,284	104	2,467	1,106	10,476
Power (large)	10,376	9	209	244	1,524
Street lighting	2,460	13	79	48	832
COMMERCIAL STATIONS	755,239	5,983	63,546	27,377	277,827
Domestic service	629,369	4,916	53,916	22,802	238,709
Commercial light	102,040	975	7,741	3,787	32,872
Power (small)	16,288	73	1,725	685	4,606
Power (large)	4,111	8	118	82	863
Street lighting	1,431	11	46	21	777
Non-generating	210,562	110	25,116	16,759	4,358
Generating	542,677	5,873	38,430	10,618	273,469
Hydraulic	455,036	385	10,429	2,204	272,946
Fuel	87,641	5,488	28,001	8,414	523
MUNICIPAL STATIONS	1,484,784	1,446	30,440	39,945	338,325
Domestic service	1,277,083	1,187	25,988	30,058	291,687
Commercial light	171,411	225	3,566	3,277	40,052
Power (small)	28,996	31	762	421	5,870
Power (large)	6,265	1	91	162	661
Street lighting	1,029	2	33	27	55
Non-generating	831,683	-	16,450	16,018	22,131
Generating	653,101	1,446	13,990	23,927	316,194
Hydraulic	546,167	-	7,531	1,954	314,911
Fuel	106,934	1,446	6,459	21,973	1,283
NON-GENERATING STATIONS	1,042,245	110	41,566	32,777	26,489
Domestic service	891,674	80	35,965	28,293	23,321
Commercial light	125,685	29	4,577	3,828	2,605
Power (small)	20,869	-	935	484	482
Power (large)	3,293	-	56	150	33
Street lighting	724	1	33	22	48
GENERATING STATIONS	1,195,778	7,319	52,420	34,545	589,663
Hydraulic stations	1,001,203	385	17,960	4,158	587,857
Domestic service	859,696	299	15,426	3,499	505,678
Commercial light	115,927	83	2,044	542	69,939
Power (small)	17,839	2	376	87	9,972
Power (large)	6,486	-	84	25	1,488
Street lighting	1,255	1	30	5	780
Fuel stations	194,575	6,934	34,460	30,387	1,806
Domestic service	155,082	5,724	28,513	27,068	1,397
Commercial	31,839	1,088	4,686	2,694	380
Power (small)	6,576	102	1,176	535	22
Power (large)	597	9	69	69	3
Street lighting	481	11	16	21	4
Average number of domestic service customers per 100 of population	15.92	6.71	13.06	12.74	15.15

TABLEAU 8 - NOMBRE D'USAGERS, 1944

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	
932,084	118,243	77,535	105,398	219,874	NOMBRE D'USAGERS
41.65	5.28	3.47	4.71	9.82	Pourcentage du total pour le Canada
813,356	92,073	58,089	81,652	186,019	Service domestique
100,612	18,777	16,047	17,230	28,290	Eclairage commercial
14,314	3,623	2,921	5,714	4,539	Force motrice (petite)
3,196	3,572	118	589	915	Force motrice (grosse)
606	198	360	213	111	Eclairage des rues
80,657	35,317	29,233	35,892	197,427	NOMBRE D'USAGERS DES USINES COMMERCIALES
69,064	26,194	21,462	25,093	167,213	Service domestique
9,956	7,069	6,316	7,975	25,349	Eclairage commercial
1,157	416	1,215	2,361	4,050	Force motrice (petite)
386	1,616	50	267	721	Force motrice (grosse)
74	22	190	196	94	Eclairage des rues
12,910	8,395	3,225	2,543	137,146	Non-génératrices
67,727	26,922	26,008	33,349	60,281	Génératrices
67,340	25,413	-	19,124	57,195	Hydrauliques
387	1,509	26,008	14,225	3,086	Combustible
851,447	82,926	48,302	69,506	22,447	NOMBRE D'USAGERS DES USINES MUNICIPALES
744,292	65,879	36,627	56,559	18,806	Service domestique
90,656	11,708	9,731	9,255	2,941	Eclairage commercial
13,157	3,207	1,706	3,353	489	Force motrice (petite)
2,610	1,956	68	322	194	Force motrice (grosse)
532	176	170	17	17	Eclairage des rues
686,785	26,133	16,467	31,303	16,396	Non-génératrices
164,662	56,793	31,835	38,203	6,051	Génératrices
163,096	54,021	-	-	4,654	Hydrauliques
1,566	2,772	31,835	38,203	1,397	Combustible
699,695	34,528	19,692	33,846	153,542	NOMBRE D'USAGERS DES USINES NON-GENERATRICES
603,785	27,018	14,879	27,712	130,623	Service domestique
81,149	6,090	3,731	4,227	19,449	Eclairage commercial
12,257	1,005	993	1,825	2,888	Force motrice (petite)
2,184	243	29	68	530	Force motrice (grosse)
322	172	60	14	52	Eclairage des rues
232,389	83,715	57,843	71,552	66,332	NOMBRE D'USAGERS DES USINES GENERATRICES
230,436	79,434	-	19,124	61,849	Usines hydrauliques
207,939	61,854	-	13,038	51,963	Service domestique
19,250	11,859	-	4,279	7,931	Eclairage commercial
1,958	2,435	-	1,469	1,540	Force motrice (petite)
1,010	5,276	-	231	372	Force motrice (grosse)
279	10	-	107	43	Eclairage des rues
1,953	4,281	57,843	52,428	4,483	Usines à combustible
1,634	3,201	43,210	40,902	3,433	Service domestique
213	828	12,316	8,724	910	Eclairage commercial
99	183	1,928	2,420	111	Force motrice (petite)
2	53	89	290	13	Force motrice (grosse)
5	16	300	92	16	Eclairage des rues
20.51	12.58	6.87	9.98	19.60	Moyenne de consommateurs d'éclairage électrique par 100 habitants

TABLE 9 - POLE LINE MILEAGE, 1944

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
POLE LINE MILEAGE	80,073	309	4,362	3,460	15,180
Per cent of total for Canada	100.00	0.39	5.45	4.32	18.96
Miles of steel towers	5,321	-	21	243	1,395
Miles of steel poles	445	-	2	120	261
Miles of wooden poles	71,575	306	4,326	3,095	12,754
Miles of concrete poles	539	-	-	1	-
Miles of underground and submarine cables	2,193	3	13	1	770
TOTAL POLE LINE MILEAGE - COMMERCIAL STATIONS	30,877	285	2,188	721	12,351
Non-generating	5,337	11	552	259	287
Generating	25,540	274	1,636	462	12,044
Hydraulic	22,184	24	1,000	260	12,032
Fuel	3,356	250	636	202	12
TOTAL POLE LINE MILEAGE - MUNICIPAL STATIONS	49,196	24	2,174	2,739	2,849
Non-generating	11,071	-	407	183	185
Generating	38,125	24	1,767	2,556	2,664
Hydraulic	32,391	-	1,309	27	2,637
Fuel	5,734	24	458	2,529	27
TOTAL POLE LINE MILEAGE - NON-GENERATING STATIONS	16,408	11	959	442	472
TOTAL POLE LINE MILEAGE - GENERATING STATIONS	63,665	298	3,403	3,018	14,708
Hydraulic	54,575	24	2,309	287	14,669
Fuel	9,090	274	1,094	2,731	39

TABLE 10 - AUXILIARY PLANT EQUIPMENT, 1944

TOTAL PRIMARY POWER H.P.	185,117	135	2,554	2,725	37,311
Per cent of total for Canada	100.00	0.07	1.38	1.47	20.16
Steam reciprocating engines No.	23	1	4	2	1
Total capacity H.P.	9,253	75	1,240	800	60
Steam turbines No.	42	-	1	3	8
Total capacity H.P.	166,909	-	670	1,925	36,224
Gas and oil engines No.	46	1	7	-	5
Total capacity H.P.	8,955	60	644	-	1,027
TOTAL SECONDARY POWER Kv.A.	157,866	48	1,948	2,035	33,894
COMMERCIAL STATIONS					
TOTAL PRIMARY POWER H.P.	100,656	135	2,314	2,725	3,675
Steam reciprocating engines No.	17	1	4	2	1
Total capacity H.P.	5,578	75	1,240	800	60
Steam turbines No.	31	-	1	3	3
Total capacity H.P.	88,195	-	670	1,925	3,500
Gas and oil engines No.	38	1	4	-	3
Total capacity H.P.	6,883	60	404	-	115
TOTAL SECONDARY POWER Kv.A.	82,815	48	1,763	2,035	3,125
MUNICIPAL STATIONS					
TOTAL PRIMARY POWER H.P.	84,461	-	240	-	33,636
Steam reciprocating engines No.	6	-	-	-	-
Total capacity H.P.	3,675	-	-	-	-
Steam turbines No.	11	-	-	-	5
Total capacity H.P.	78,714	-	-	-	32,724
Gas and oil engines No.	8	-	3	-	2
Total capacity H.P.	2,072	-	240	-	912
TOTAL SECONDARY POWER Kv.A.	75,051	-	185	-	30,769

TABLEAU 9 - LONGUEUR (EN MILLES) DES LIGNES SUR POTEAUX, 1944

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	
37,347	4,534	4,117	4,534	6,230	LONGUEUR (EN MILLES) DES LIGNES SUR POTEAUX
46.64	5.36	5.14	5.66	7.78	Pourcentage du total pour tout le Canada
2,845	743	-	31	40	Milles de pylones d'acier
62	-	-	-	-	Milles de poteaux d'acier
32,865	3,755	4,092	4,298	6,084	Milles de poteaux de bois
536	1	-	-	1	Milles de poteaux de ciment
1,036	35	25	205	105	Milles de cables souterrains et sous-marins
2,742	1,429	1,799	3,640	5,742	TOTAL (EN MILLES) POUR LE SERVICE DES USINES COMMERCIALES
333	215	656	52	2,972	Non-génératrices
2,409	1,214	1,143	3,588	2,770	Génératrices
2,404	1,141	-	2,657	2,666	Hydrauliques
5	73	1,143	931	104	A combustible
34,605	3,105	2,318	894	488	TOTAL (EN MILLES) POUR LE SERVICE DES USINES MUNICIPALES
7,157	2,204	208	421	306	Non-génératrices
27,448	901	2,110	473	182	Génératrices
27,413	867	-	-	138	Hydrauliques
35	34	2,110	473	14	A combustible
7,490	2,419	864	473	3,278	TOTAL (EN MILLES) POUR LE SERVICE DES USINES NON-GENERATRICES
29,857	2,115	3,253	4,061	2,952	TOTAL (EN MILLES) POUR LE SERVICE DES USINES GENERATRICES
29,817	2,008	-	2,657	2,804	Hydrauliques
40	107	3,253	1,404	148	A combustible

TABLEAU 10 - OUTILLAGE AUXILIAIRE, 1944

41,260	30,240	-	18,963	51,929	TOTAL, FORCE MOTRICE PRIMAIRE ..... H.P.
22.29	16.34	-	10.24	28.05	Pourcentage du total pour tout le Canada
4	1	-	7	3	Machines à vapeur, à mouvement alternatif ..... Nomb.
1,600	1,750	-	2,753	975	Capacité totale ..... H.P.
4	7	-	4	15	Turbines à vapeur ..... Nomb.
38,000	28,490	-	15,000	46,600	Capacité totale ..... H.P.
5	-	-	7	21	Moteurs à gaz et à pétrole ..... Nomb.
1,660	-	-	1,210	4,354	Capacité totale ..... H.P.
33,497	28,120	-	16,662	41,662	TOTAL, FORCE MOTRICE SECONDAIRE ..... Kv.A.
					USINES COMMERCIALES
10,160	12,000	-	18,963	50,684	TOTAL, FORCE MOTRICE PRIMAIRE ..... H.P.
-	-	-	7	2	Machines à vapeur, à mouvement alternatif ..... Nomb.
-	-	-	2,753	650	Capacité totale ..... H.P.
2	5	-	4	15	Turbines à vapeur ..... Nomb.
8,500	12,000	-	15,000	46,600	Capacité totale ..... H.P.
5	-	-	7	18	Moteurs à gaz et à pétrole ..... Nomb.
1,660	-	-	1,210	3,434	Capacité totale ..... H.P.
7,282	11,250	-	16,662	40,650	TOTAL, FORCE MOTRICE SECONDAIRE ..... Kv.A.
					USINES MUNICIPALES
31,100	18,240	-	-	1,245	TOTAL, FORCE MOTRICE PRIMAIRE ..... H.P.
4	1	-	-	1	Machines à vapeur, à mouvement alternatif ..... Nomb.
1,600	1,750	-	-	325	Capacité totale ..... H.P.
2	4	-	-	-	Turbines à vapeur ..... Nomb.
29,500	16,490	-	-	-	Capacité totale ..... H.P.
-	-	-	-	3	Moteurs à gaz et à pétrole ..... Nomb.
-	-	-	-	920	Capacité totale ..... H.P.
26,215	16,870	-	-	1,012	TOTAL, FORCE MOTRICE SECONDAIRE ..... Kv.A.

TABLE 11 - TOTAL EQUIPMENT INCLUDING AUXILIARY PLANT EQUIPMENT, 1944

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
TOTAL PRIMARY POWER ..... H.P.	9,898,908	9,350	207,284	153,975	5,438,258
Per cent of total for Canada	100.00	0.09	2.09	1.56	54.94
Water wheels and turbines ..... No.	863	6	58	17	294
Total capacity ..... H.P.	9,267,969	363	108,215	107,010	5,397,912
Steam reciprocating engines ..... No.	54	1	6	7	3
Total capacity ..... H.P.	19,235	75	3,540	3,980	165
Steam turbines ..... No.	120	4	18	10	9
Total capacity ..... H.P.	556,040	6,680	92,426	42,005	36,374
Gas and oil engines ..... No.	556	13	22	6	13
Total capacity ..... H.P.	55,664	2,232	3,103	980	3,787
TOTAL DYNAMO CAPACITY ..... Kv.A.	8,231,730	6,993	171,583	131,297	4,607,113
Per cent of total for Canada	100.00	0.08	2.08	1.60	55.97
Dynamos, A.C. ..... No.	1,332	21	102	37	312
Total capacity ..... Kv.A.	8,225,524	6,993	171,283	130,447	4,607,093
Dynamos, D.C. ..... No.	237	-	1	2	1
Total capacity ..... Kw.	6,206	-	300	850	20
COMMERCIAL STATIONS					
TOTAL PRIMARY POWER ..... H.P.	6,474,179	7,395	118,689	114,355	4,369,857
Water wheels and turbines ..... No.	529	6	19	11	219
Total capacity ..... H.P.	6,175,674	363	26,170	94,150	4,365,852
Steam reciprocating engines ..... No.	35	1	8	7	1
Total capacity ..... H.P.	12,505	75	3,540	3,980	60
Steam turbines ..... No.	72	4	15	6	4
Total capacity ..... H.P.	254,305	6,680	86,845	15,625	3,650
Gas and oil engines ..... No.	402	6	7	2	5
Total capacity ..... H.P.	31,695	277	2,134	600	295
TOTAL DYNAMO CAPACITY ..... Kv.A.	5,373,689	5,377	98,629	97,216	3,648,090
Dynamos, A.C. ..... No.	821	14	45	23	223
Total capacity ..... Kv.A.	5,369,371	5,377	98,329	96,366	3,648,070
Dynamos, D.C. ..... No.	195	-	1	2	1
Total capacity ..... Kw.	4,318	-	300	850	20
MUNICIPAL STATIONS					
TOTAL PRIMARY POWER ..... H.P.	3,424,729	1,955	88,595	39,620	1,068,381
Water Wheels and turbines ..... No.	334	-	39	6	75
Total capacity ..... H.P.	3,092,295	-	82,045	12,860	1,032,060
Steam reciprocating engines ..... No.	19	-	-	-	2
Total capacity ..... H.P.	6,730	-	-	-	105
Steam turbines ..... No.	48	-	3	4	5
Total capacity ..... H.P.	301,735	-	5,581	26,380	32,724
Gas and oil engines ..... No.	154	7	15	4	8
Total capacity ..... H.P.	23,969	1,955	969	380	3,492
TOTAL DYNAMO CAPACITY ..... Kv.A.	2,858,041	1,616	72,954	34,081	959,023
Dynamos, A.C. ..... No.	511	7	57	14	89
Total capacity ..... Kv.A.	2,856,153	1,616	72,954	34,081	959,023
Dynamos, D.C. ..... No.	42	-	-	-	-
Total capacity ..... Kw.	1,888	-	-	-	-

TABLEAU 11 - OUTILLAGE GLOBAL, Y COMPRIS OUTILLAGE AUXILIAIRE, 1944

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia & Yukon	
2,382,953	542,054	186,366	236,958	779,130	TOTAL FORCE MOTRICE PRIMAIRE ..... H.P.
24.07	5.48	1.71	2.19	7.87	Pourcentage du total pour le Canada
351	43	-	9	85	Turbines et roues hydrauliques ..... Nomb.
2,340,232	508,300	-	91,000	714,937	Capacité totale ..... H.P.
9	2	1	17	8	Machines à vapeur, à mouvement alternatif ..... Nomb.
1,800	1,770	750	5,711	1,444	Capacité totale ..... H.P.
4	9	26	20	20	Turbines à vapeur ..... Nomb.
38,000	29,740	144,310	112,565	53,940	Capacité totale ..... H.P.
17	28	257	134	66	Moteurs à gaz et à pétrole ..... Nomb.
2,921	2,244	23,906	7,682	8,809	Capacité totale ..... H.P.
1,916,400	438,741	142,846	181,912	634,845	CAPACITE TOTALE DES DYNAMOS ..... Kv.A.
23.28	5.33	1.74	2.21	7.71	Pourcentage du total pour le Canada
375	77	137	102	169	Dynamos, C.A. ..... Nomb.
1,916,355	438,709	140,985	179,006	634,653	Capacité totale ..... Kv.A.
2	4	148	70	9	Dynamos, C.D. ..... Nomb.
45	32	1,861	2,906	192	Capacité totale ..... Kw.
					USINES COMMERCIALES
549,013	366,524	59,070	121,785	767,491	TOTAL, FORCE MOTRICE PRIMAIRE ..... H.P.
165	23	-	9	77	Turbines et roues hydrauliques ..... Nomb.
538,572	353,300	-	91,000	706,267	Capacité totale ..... H.P.
1	1	-	13	5	Machines à vapeur, à mouvement alternatif ..... Nomb.
15	20	-	3,751	1,064	Capacité totale ..... H.P.
2	3	12	6	20	Turbines à vapeur ..... Nomb.
8,500	12,000	46,765	20,300	53,940	Capacité totale ..... H.P.
9	18	181	119	55	Moteurs à gaz et à pétrole ..... Nomb.
1,926	1,204	12,305	6,734	6,220	Capacité totale ..... H.P.
461,361	290,320	48,617	98,056	626,023	CAPACITE TOTALE DES DYNAMOS ..... Kv.A.
174	43	72	78	149	Dynamos, C.A. ..... Nomb.
461,351	290,314	47,363	96,350	625,851	Capacité totale ..... Kv.A.
1	1	117	64	8	Dynamos, C.D. ..... Nomb.
10	6	1,254	1,706	172	Capacité totale ..... Kw.
					USINES MUNICIPALES
1,853,940	175,530	109,896	95,173	11,639	TOTAL, FORCE MOTRICE PRIMAIRE ..... H.P.
186	20	-	-	8	Turbines et roues hydrauliques ..... Nomb.
1,801,680	155,000	-	-	8,670	Capacité totale ..... H.P.
8	1	1	4	3	Machines à vapeur, à mouvement alternatif ..... Nomb.
1,785	1,750	750	1,960	380	Capacité totale ..... H.P.
2	6	14	14	-	Turbines à vapeur ..... Nomb.
29,500	17,740	97,545	92,265	-	Capacité totale ..... H.P.
8	10	76	15	11	Moteurs à gaz et à pétrole ..... Nomb.
995	1,040	11,601	948	2,589	Capacité totale ..... H.P.
1,455,039	148,421	94,229	83,856	8,822	CAPACITE TOTALE DES DYNAMOS ..... Kv.A.
201	34	65	24	20	Dynamos, C.A. ..... Nomb.
1,455,004	148,395	93,622	82,656	8,802	Capacité totale ..... Kv.A.
1	3	31	6	1	Dynamos, C.D. ..... Nomb.
35	26	607	1,200	20	Capacité totale ..... Kw.

TABLE 12 - MAIN PLANT EQUIPMENT, 1944

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
TOTAL PRIMARY POWER ..... H.P.	9,713,791	9,215	204,730	151,250	5,400,927
Per cent of total for Canada	100.00	0.09	2.11	1.56	55.60
Water wheels and turbines .....No.	863	6	58	17	294
Total Capacity ..... H.P.	9,267,969	363	108,215	107,010	5,397,912
Steam reciprocating engines ..... No.	31	-	2	5	2
Total capacity ..... H.P.	9,982	-	2,300	3,180	105
Steam turbines ..... No.	78	4	17	7	1
Total capacity ..... H.P.	389,131	6,680	91,756	40,080	150
Gas and oil engines ..... No.	510	12	15	6	8
Total capacity ..... H.P.	46,709	2,172	2,459	980	2,760
TOTAL DYNAMO CAPACITY ..... Kv.A.	8,073,864	6,945	169,635	129,262	4,573,219
Per cent of total for Canada	100.00	0.09	2.10	1.60	56.64
Dynamos, A.C. ..... No.	1,235	20	93	32	302
Total capacity ..... Kv.A.	8,069,058	6,945	169,635	128,412	4,573,199
Dynamos, D.C. ..... No.	234	-	-	2	1
Total capacity ..... Kw.	4,806	-	-	850	20
COMMERCIAL STATIONS					
TOTAL PRIMARY POWER ..... H.P.	6,375,523	7,260	116,375	111,630	4,366,182
Per cent of total for Canada	100.00	0.11	1.83	1.75	68.50
Water wheels and turbines ..... No.	529	6	19	11	219
Total capacity ..... H.P.	6,175,674	363	26,170	94,150	4,365,852
Steam reciprocating engines ..... No.	18	-	2	5	-
Total capacity ..... H.P.	6,927	-	2,300	3,180	—
Steam turbines ..... No.	41	4	14	3	1
Total capacity ..... H.P.	166,110	6,680	86,175	13,700	150
Gas and oil engines ..... No.	364	5	3	2	2
Total capacity ..... H.P.	24,812	217	1,730	600	180
TOTAL DYNAMO CAPACITY ..... Kv.A.	5,290,874	5,329	96,866	95,181	3,644,965
Per cent of total for Canada	100.00	0.10	1.83	1.80	68.89
Dynamos, A.C. ..... No.	748	13	39	18	220
Total capacity ..... Kv.A.	5,287,956	5,329	96,866	94,331	3,644,945
Dynamos, D.C. ..... No.	192	-	-	2	1
Total capacity ..... Kw.	2,918	-	-	850	20
MUNICIPAL STATIONS					
TOTAL PRIMARY POWER ..... H.P.	3,340,268	1,955	88,355	39,620	1,034,745
Per cent of total for Canada	100.00	0.06	2.65	1.19	31.02
Water wheels and turbines ..... No.	334	-	39	6	75
Total capacity ..... H.P.	3,092,295	-	82,045	12,860	1,032,060
Steam reciprocating engines ..... No.	13	-	-	-	2
Total capacity ..... H.P.	3,055	-	-	-	105
Steam turbines ..... No.	37	-	3	4	-
Total capacity ..... H.P.	223,051	-	5,581	26,380	-
Gas and oil engines ..... No.	146	7	12	4	6
Total capacity ..... H.P.	21,897	1,955	729	380	2,580
TOTAL DYNAMO CAPACITY ..... Kv.A.	2,782,990	1,616	72,769	34,081	928,254
Per cent of total for Canada	100.00	0.06	2.62	1.22	33.35
Dynamos, A.C. ..... No.	487	7	54	14	82
Total capacity ..... Kv.A.	2,781,102	1,616	72,769	34,081	928,254
Dynamos, D.C. ..... No.	42	-	-	-	-
Total capacity ..... Kw.	1,888	-	-	-	-
HYDRAULIC STATIONS					
TOTAL DYNAMO CAPACITY ..... Kv.A.	7,093,157	338	87,184	92,238	4,570,700
Per cent of total for Canada	100.00	0.04	1.23	1.20	59.40
Dynamos, A.C. ..... No.	856	5	58	16	292
Total capacity ..... Kv.A.	7,092,867	338	87,184	92,038	4,570,680
Dynamos, D.C. ..... No.	4	-	-	1	1
Total capacity ..... Kw.	290	-	-	200	20
FUEL STATIONS					
TOTAL DYNAMO CAPACITY ..... Kv.A.	380,707	6,607	82,451	37,024	2,519
Per cent of total for Canada	100.00	1.73	21.66	9.73	0.66
Dynamos, A.C. ..... No.	379	15	33	16	10
Total capacity ..... Kv.A.	376,191	6,607	82,451	36,374	2,519
Dynamos, D.C. ..... No.	230	-	-	1	-
Total capacity ..... Kw.	4,516	-	-	650	-

x - Capacity of one hydraulic station in Saskatchewan included in Manitoba.

TABLEAU 12 - OUTILLAGE DES USINES PRINCIPALES, 1944

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	
2,341,693	x 511,814	x 168,966	197,995	727,201	TOTAL, FORCE MOTRICE PRIMAIRE ..... H.P.
24.10	5.27	1.74	2.04	7.49	Pourcentage du total pour le Canada .....
351	43	-	9	85	Roues hydrauliques et turbines ..... Nomb.
2,335,232	508,300	-	91,000	714,937	Capacité totale ..... H.P.
5	1	1	10	5	Machines à vapeur, à mouvement alternatif ..... Nomb.
200	20	750	2,958	469	Capacité totale ..... H.P.
-	2	26	16	5	Turbines à vapeur ..... Nomb.
-	1,250	144,310	97,565	7,340	Capacité totale ..... H.P.
12	28	257	127	45	Moteurs à gaz et à pétrole ..... Nomb.
1,261	2,244	23,906	6,472	4,455	Capacité totale ..... H.P.
1,882,903	410,621	142,846	165,250	593,183	CAPACITE DES DYNAMOS ..... Kv.A.
23.32	5.08	1.77	2.05	7.35	Pourcentage du total pour le Canada .....
364	69	157	86	132	Dynamos, C.A. ..... Nomb.
1,882,858	410,589	140,985	163,444	592,991	Capacité totale ..... Kv.A.
2	4	148	68	9	Dynamos, C.D. ..... Nomb.
45	32	1,861	1,806	192	Capacité totale ..... Kw.
					USINES COMMERCIALES
538,853	354,524	59,070	102,822	716,807	TOTAL, FORCE MOTRICE PRIMAIRE ..... H.P.
8.46	5.56	0.93	1.61	11.25	Pourcentage du total pour le Canada .....
165	23	-	9	77	Turbines et roues hydrauliques ..... Nomb.
538,572	353,300	-	91,000	706,267	Capacité totale ..... H.P.
1	1	-	6	3	Machines à vapeur, à mouvement alternatif ..... Nomb.
15	20	-	998	414	Capacité totale ..... H.P.
-	-	12	2	5	Turbines à vapeur ..... Nomb.
-	-	46,765	5,300	7,340	Capacité totale ..... H.P.
4	18	181	112	37	Moteurs à gaz et à pétrole ..... Nomb.
266	1,204	12,305	5,524	2,786	Capacité totale ..... H.P.
454,079	279,070	48,617	81,394	585,373	CAPACITE DES DYNAMOS ..... Kv.A.
8.58	5.28	0.92	1.54	11.06	Pourcentage du total pour le Canada .....
169	40	72	62	115	Dynamos, C.A. ..... Nomb.
454,069	279,064	47,363	80,788	585,201	Capacité totale ..... Kv.A.
1	1	117	62	8	Dynamos, C.D. ..... Nomb.
10	6	1,254	606	172	Capacité totale ..... Kw.
					USINES MUNICIPALES
1,802,840	157,290	109,896	95,173	10,394	TOTAL, FORCE MOTRICE PRIMAIRE ..... H.P.
53.90	4.72	3.30	2.85	0.31	Pourcentage du total pour le Canada .....
186	20	-	-	8	Turbines et roues hydrauliques ..... Nomb.
1,801,660	155,000	-	-	8,670	Capacité totale ..... H.P.
4	-	1	4	2	Machines à vapeur, à mouvement alternatif ..... Nomb.
185	-	750	1,960	55	Capacité totale ..... H.P.
-	2	14	14	-	Turbines à vapeur ..... Nomb.
-	1,250	97,545	92,265	-	Capacité totale ..... H.P.
8	10	76	15	8	Moteurs à gaz et à pétrole ..... Nomb.
995	1,040	11,301	948	1,669	Capacité totale ..... H.P.
1,428,824	131,551	94,229	83,856	7,810	CAPACITE DES DYNAMOS ..... Kv.A.
51.34	4.73	3.39	3.01	0.28	Pourcentage du total pour le Canada .....
195	29	65	24	17	Dynamos, C.A. ..... Nomb.
1,428,789	131,525	93,622	82,656	7,790	Capacité totale ..... Kv.A.
1	3	31	6	1	Dynamos, C.D. ..... Nomb.
35	26	607	1,200	20	Capacité totale ..... Kw.
					USINES HYDROELECTRIQUES
1,881,761	407,600	-	71,500	581,836	CAPACITE TOTALE DES DYNAMOS ..... Kv.A.
24.46	5.29	-	0.92	7.50	Pourcentage du total pour le Canada .....
349	43	-	9	84	Dynamos, C.A. ..... Nomb.
1,881,761	407,600	-	71,500	581,766	Capacité totale ..... Kv.A.
-	-	-	-	2	Dynamos, C.D. ..... Nomb.
-	-	-	-	70	Capacité totale ..... Kw.
					USINES A VOCATION MIXTE
1,142	3,021	142,846	95,750	11,347	CAPACITE TOTALE DES DYNAMOS ..... Kv.A.
0.30	0.79	37.52	24.03	2.98	Pourcentage du total pour le Canada .....
15	26	157	77	48	Dynamos, C.A. ..... Nomb.
1,097	2,989	140,985	91,944	11,225	Capacité totale ..... Kv.A.
2	4	148	68	7	Dynamos, C.D. ..... Nomb.
45	32	1,861	1,806	122	Capacité totale ..... Kw.

x - Rendement maximum d'une usine hydraulique de la Saskatchewan inclue dans le Manitoba.

TABLE 13 - MAIN PLANT EQUIPMENT CLASSIFIED, 1944

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
PRIMARY POWER ..... H.P.	9,713,791	9,215	204,730	151,250	5,400,927	2,341,693
Water wheels and turbines ..... No.	863	6	58	17	294	351
Total H.P.	9,267,969	363	108,215	107,010	5,397,912	2,335,232
Under 500 H.P. ..... No.	131	6	19	2	31	51
Total H.P.	28,354	363	4,725	710	6,368	12,242
500 - 2,000 H.P. ..... No.	220	-	20	4	61	124
Total H.P.	236,819	-	21,100	3,800	63,844	135,055
2,000 - 5,000 H.P. ..... No.	138	-	12	6	35	65
Total H.P.	408,971	-	41,390	17,500	99,000	186,935
5,000 - 10,000 H.P. ..... No.	111	-	7	1	33	33
Total H.P.	731,525	-	41,000	5,000	233,400	211,300
10,000 - 15,000 H.P. ..... No.	83	-	-	-	28	46
Total H.P.	960,900	-	-	-	301,900	550,200
15,000 - 25,000 H.P. ..... No.	58	-	-	4	20	11
Total H.P.	1,091,500	-	-	80,000	408,500	182,500
25,000 - 50,000 H.P. ..... No.	78	-	-	-	57	6
Total H.P.	2,746,900	-	-	-	2,115,900	168,000
50,000 H.P. and up ..... No.	44	-	-	-	29	15
Total H.P.	3,063,000	-	-	-	2,169,000	894,000
Steam reciprocating engines ..... No.	31	-	2	5	2	5
Total H.P.	9,982	-	2,300	3,180	105	200
Under 500 H.P. ..... No.	23	-	-	2	2	5
Total H.P.	2,472	-	-	280	105	200
500 H.P. and up ..... No.	8	-	2	3	-	-
Total H.P.	7,510	-	2,300	2,900	-	-
Steam turbines ..... No.	78	4	17	7	1	-
Total H.P.	389,131	6,680	91,756	40,080	150	-
Under 500 H.P. ..... No.	4	-	-	-	1	-
Total H.P.	992	-	-	-	150	-
500 - 2,000 H.P. ..... No.	20	3	2	1	-	-
Total H.P.	22,699	4,180	2,256	700	-	-
2,000 - 5,000 H.P. ..... No.	28	1	8	3	-	-
Total H.P.	84,221	2,500	24,125	11,000	-	-
5,000 - 10,000 H.P. and up ..... No.	26	-	7	3	-	-
Total H.P.	281,219	-	65,375	28,380	-	-
Gas and oil engines ..... No.	510	12	15	6	8	12
Total H.P.	46,709	2,172	2,459	980	2,760	1,261
SECONDARY POWER						
Dynamos, A.C. and D.C. ..... No.	1,469	20	93	34	303	366
Total Kv.A.	8,073,864	6,945	169,635	129,262	4,573,219	1,882,903
Dynamos, A.C. ..... No.	1,235	20	93	32	302	364
Total Kv.A.	8,069,058	6,945	169,635	128,412	4,573,199	1,882,858
Under 50 Kv.A. ..... No.	118	5	9	-	4	8
Total Kv.A.	3,344	136	256	-	159	243
50 - 200 Kv.A. ..... No.	187	6	11	7	18	31
Total Kv.A.	20,165	493	1,211	802	1,752	3,820
200 - 500 Kv.A. ..... No.	147	5	17	2	26	43
Total Kv.A.	45,971	1,486	5,363	675	9,206	13,483
500 - 1,000 Kv.A. ..... No.	143	1	14	4	38	68
Total Kv.A.	101,619	625	9,595	2,750	27,600	48,820
1,000 - 5,000 Kv.A. ..... No.	282	3	33	12	53	117
Total Kv.A.	662,375	4,205	88,735	29,475	114,295	251,360
5,000 - 10,000 Kv.A. ..... No.	115	-	8	3	25	47
Total Kv.A.	809,752	-	52,175	24,710	166,020	356,592
10,000 - 15,000 Kv.A. ..... No.	74	-	1	-	32	25
Total Kv.A.	802,325	-	12,500	-	333,660	267,040
15,000 - 25,000 Kv.A. ..... No.	65	-	-	4	23	8
Total Kv.A.	1,217,750	-	-	70,000	454,250	154,000
25,000 - 50,000 Kv.A. ..... No.	83	-	-	-	67	12
Total Kv.A.	3,033,757	-	-	-	2,366,257	515,500
50,000 Kv.A. and up ..... No.	21	-	-	-	16	5
Total Kv.A.	1,372,000	-	-	-	1,100,000	272,000
Dynamos, D.C. ..... No.	234	-	-	2	1	2
Total Kw.	4,806	-	-	850	20	45
Under 50 Kw. ..... No.	228	-	-	-	1	2
Total Kw.	2,636	-	-	-	20	45
50 - 200 Kw. ..... No.	2	-	-	-	-	-
Total Kw.	170	-	-	-	-	-
200 - 500 Kw. ..... No.	2	-	-	1	-	-
Total Kw.	600	-	-	200	-	-
500 Kw. and up ..... No.	2	-	-	1	-	-
Total Kw.	1,400	-	-	650	-	-

TABLEAU 13 - OUTILLAGE CLASSIFIE DES USINES PRINCIPALES, 1944

Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	Commercial	Municipal	
511,814	168,966	197,095	727,201	6,373,523	3,340,268	FORCE MOTRICE PRIMAIRE ..... H.P.
43	-	9	85	529	334	Turbines et roues hydrauliques ..... Nomb.
508,500	-	91,000	714,957	6,175,674	3,092,295	Total H.P.
-	-	-	22	88	43	Moins de 500 H.P. ..... Nomb.
-	-	-	3,946	16,954	11,400	Total H.P.
-	-	-	11	121	99	500 - 2,000 H.P. ..... Nomb.
-	-	-	13,020	124,874	111,945	Total H.P.
4	-	2	14	86	52	2,000 - 5,000 H.P. ..... Nomb.
12,800	-	8,000	43,346	261,821	147,150	Total H.P.
21	-	4	12	65	46	5,000 - 10,000 H.P. ..... Nomb.
130,000	-	24,000	86,825	441,325	290,200	Total H.P.
4	-	-	5	37	46	10,000 - 15,000 H.P. ..... Nomb.
50,000	-	-	58,800	410,800	550,100	Total H.P.
8	-	3	12	44	14	15,000 - 25,000 H.P. ..... Nomb.
147,500	-	59,000	214,000	861,000	250,500	Total H.P.
6	-	-	9	72	6	25,000 - 50,000 H.P. ..... Nomb.
168,000	-	-	295,000	2,578,900	168,000	Total H.P.
-	-	-	-	16	28	50,000 et plus H.P. ..... Nomb.
-	-	-	-	1,480,000	1,583,000	Total H.P.
1	1	10	5	18	13	Machines à vapeur, à mouvement alternatif ..... Nomb.
20	750	2,958	469	6,927	3,055	Total H.P.
1	-	8	5	13	10	Moins de 500 H.P. ..... Nomb.
20	-	1,398	469	1,727	745	Total H.P.
-	1	2	-	5	3	500 H.P. et plus ..... Nomb.
-	750	1,560	-	5,200	2,310	Total H.P.
2	26	16	5	41	37	Turbines à vapeur ..... Nomb.
1,250	144,310	97,565	7,340	166,110	223,021	Total H.P.
1	1	1	-	1	3	Moins de 500 H.P. ..... Nomb.
400	267	175	-	150	842	Total H.P.
1	7	2	4	12	8	500 - 2,000 H.P. ..... Nomb.
850	8,373	2,000	4,340	14,423	8,276	Total H.P.
-	9	6	1	17	11	2,000 - 5,000 H.P. ..... Nomb.
-	26,296	17,300	3,000	47,896	30,325	Total H.P.
-	9	7	-	11	15	5,000 - 10,000 H.P. ..... Nomb.
-	109,374	78,090	-	103,641	177,578	Total H.P.
28	257	127	45	364	146	Moteurs à gaz et à pétrole ..... Nomb.
2,244	23,906	6,472	4,455	24,812	21,897	Total H.P.
						FORCE MOTRICE SECONDAIRE
73	285	154	141	940	529	Dynamos, C.A. & C.D. ..... Nomb.
410,621	142,846	165,250	595,183	5,290,874	2,782,990	Total Kv.A.
69	137	86	132	748	487	Dynamos, C.A. ..... Nomb.
410,580	140,985	163,444	592,991	5,287,956	2,781,102	Total Kv.A.
14	33	27	18	82	36	Moins de 50 Kv.A. ..... Nomb.
366	1,016	689	479	2,337	1,007	Total Kv.A.
7	43	29	35	125	62	50 - 200 Kv.A. ..... Nomb.
622	4,664	3,125	3,676	13,038	7,127	Total Kv.A.
4	32	6	12	70	77	200 - 500 Kv.A. ..... Nomb.
1,220	9,739	1,450	3,349	21,441	24,530	Total Kv.A.
1	6	2	9	83	60	500 - 1,000 Kv.A. ..... Nomb.
781	3,886	1,500	6,262	57,670	43,949	Total Kv.A.
14	15	13	22	165	117	1,000 - 5,000 Kv.A. ..... Nomb.
46,350	34,180	39,875	53,900	391,995	270,380	Total Kv.A.
11	4	3	14	68	47	5,000 - 10,000 Kv.A. ..... Nomb.
70,750	25,000	16,805	97,700	478,625	331,127	Total Kv.A.
7	2	1	6	51	45	10,000 - 15,000 Kv.A. ..... Nomb.
76,000	25,000	12,500	75,625	363,725	458,600	Total Kv.A.
11	2	5	12	50	15	15,000 - 25,000 Kv.A. ..... Nomb.
214,500	37,500	87,500	200,000	945,750	274,000	Total Kv.A.
-	-	-	4	58	25	25,000 - 50,000 Kv.A. ..... Nomb.
-	-	-	152,000	1,915,375	1,118,382	Total Kv.A.
-	-	-	-	16	5	50,000 Kv.A. et plus ..... Nomb.
-	-	-	-	1,100,000	272,000	Total Kv.A.
4	148	68	9	192	42	Dynamos, C.D. ..... Nomb.
32	1,831	1,806	192	2,918	1,888	Total Kw.
4	146	66	9	190	38	Moins de 50 Kw. ..... Nomb.
32	1,631	656	192	2,068	568	Total Kw.
-	2	-	-	-	2	50 - 200 Kw. ..... Nomb.
-	170	-	-	-	170	Total Kw.
-	-	1	-	1	1	200 - 500 Kw. ..... Nomb.
-	-	400	-	400	400	Total Kw.
-	-	1	-	1	1	500 Kw. et plus ..... Nomb.
-	-	750	-	650	750	Total Kw.

TABLE 14 - ELECTRIC ENERGY GENERATED, 1944

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
ALL STATIONS					
Total kilowatt hours generated ..... (thousands)	40,598,779	15,968	582,589	521,951	23,277,515
Per cent of total for Canada	100.00	.04	1.43	1.29	57.33
Kilowatt hours generated by non-generating stations ... (thousands)	1,119	-	50	-	-
Kilowatt hours generated by generating stations ..... (thousands)	40,597,660	15,968	582,539	521,951	23,277,515
Kv.A. capacity of generating stations	8,211,073	6,993	169,785	129,262	4,597,113
Ratio of output to maximum capacity ..... p.c.	56.78	26.06	39.17	46.10	57.81
Average kilowatt hours per Kv.A.	4,944	2,283	3,431	4,038	5,064
GENERATING STATIONS					
COMMERCIAL STATIONS					
TOTAL					
Kilowatt hours generated ..... (thousands)	25,687,464	11,646	335,021	408,394	17,860,853
Kv.A. capacity	5,367,802	5,377	97,016	95,181	3,648,090
Ratio of output to maximum capacity ..... p.c.	55.13	24.73	39.42	48.98	55.89
Average kilowatt hours per Kv.A.	4,785	2,166	3,453	4,291	4,896
Hydraulic Stations					
Kilowatt hours generated ..... (thousands)	25,267,243	385	95,222	373,776	17,860,288
Kv.A. capacity	5,202,590	386	19,926	81,975	3,647,818
Ratio of output to maximum capacity ..... p.c.	55.96	11.38	54.55	52.05	55.89
Average kilowatt hours per Kv.A.	4,857	997	4,779	4,560	4,896
Fuel Stations					
Kilowatt hours generated ..... (thousands)	420,221	11,263	239,799	34,618	565
Kv.A. capacity	165,212	4,991	77,090	13,206	272
Ratio of output to maximum capacity ..... p.c.	29.04	25.76	35.51	29.92	23.71
Average kilowatt hours per Kv.A.	2,544	2,257	3,111	2,621	2,077
MUNICIPAL STATIONS					
TOTAL					
Kilowatt hours generated .....(thousands)	14,910,196	4,320	247,518	113,557	5,416,662
Kv.A. capacity	2,843,271	1,616	72,769	34,081	949,023
Ratio of output to maximum capacity ..... p.c.	59.86	30.51	38.82	38.04	65.16
Average kilowatt hours per Kv.A.	5,244	2,673	3,401	3,332	5,708
Hydraulic stations					
Kilowatt hours generated ..... (thousands)	14,432,888	-	235,325	20,539	5,410,721
Kv.A. capacity	2,627,776	-	67,408	10,263	946,776
Ratio of output to maximum capacity ..... p.c.	62.69	-	39.51	22.84	65.24
Average kilowatt hours per Kv.A.	5,492	-	3,461	2,001	5,715
Fuel Stations					
Kilowatt hours generated ..... (thousands)	477,308	4,320	14,193	93,018	5,941
Kv.A. capacity	215,495	1,616	5,361	23,818	2,247
Ratio of output to maximum capacity ..... p.c.	25.29	30.51	30.22	44.58	30.18
Average kilowatt hours per Kv.A.	2,215	2,673	2,647	3,905	2,644
TOTAL HYDRAULIC STATIONS					
Kilowatt hours generated ..... (thousands)	39,700,131	385	328,547	394,315	23,271,009
Kv.A. capacity	7,830,366	386	87,334	92,238	4,594,594
Ratio of output to maximum capacity ..... p.c.	58.24	11.38	42.95	48.80	57.82
Average kilowatt hours per Kv.A.	5,070	997	3,762	4,275	5,065
Kilowatt hours generated by water power ..... (thousands)	39,553,352	385	328,535	394,315	23,270,739
Kilowatt hours generated by auxiliary plants ..... (thousands)	146,779	-	12	-	270
TOTAL FUEL STATIONS					
Kilowatt hours generated ..... (thousands)	897,529	15,583	253,992	127,636	6,506
Kv.A. capacity	380,707	6,607	82,451	37,024	2,519
Ratio of output to maximum capacity ..... p.c.	26.92	26.93	35.17	39.35	29.49
Average kilowatt hours per Kv.A.	2,358	2,359	3,081	3,447	2,583
CONSUMPTION OF ELECTRIC ENERGY (Thousands of Kilowatt Hours)					
Total kilowatt hours generated	40,598,779	15,968	582,589	521,951	23,277,515
Kilowatt hours imported from the United States	14,097	-	-	8	258
Kilowatt hours imported from other provinces	-	-	-	7,803	37,224
Kilowatt hours exported to the United States	2,585,311	-	-	35,653	2,261
Kilowatt hours exported to other provinces	-	-	-	-	5,130,400
KILOWATT HOURS FOR CONSUMPTION IN CANADA .....(thousands)	38,027,565	15,968	582,589	494,109	18,182,336
Domestic service	3,046,980	4,579	63,516	39,441	446,142
Commercial light	1,417,599	3,197	44,098	27,896	350,450
Small power	670,458	1,304	44,116	16,866	143,259
✓ Large power	29,112,909	4,656	352,720	378,588	15,982,511
Street lighting	198,367	385	5,703	7,133	40,018
Free service (other than street lighting)	103,357	85	1,143	431	83,941
Losses	3,477,915	1,764	71,293	23,754	1,136,015

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

TABLEAU 14 - ENERGIE ELECTRIQUE GENEREE, 1944

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia & Yukon	
					TOUTES USINES
10,538,574	2,232,855	243,884	555,034	2,630,409	Total kw. heure générés ..... (milliers)
25.96	5.50	0.60	1.37	6.48	Pourcentage du total pour le Canada .....
814	1	-	-	254	Kilowatt-heure générés par les usines non-génératrices .. (milliers)
10,537,760	2,232,854	243,884	555,034	2,630,155	Kilowatt-heure générés par les usines génératrices ..... (milliers)
1,914,091	435,621	142,846	181,912	633,450	Capacité des usines génératrices en Kv.A. .....
62.84	58.52	19.49	34.83	51.32	Proportion de la production à la capacité maximum ..... p.c.
5,505	5,126	1,707	3,051	4,152	Moyenne de kilowatt-heure par Kv.A. .....
					USINES GENERATRICES
					USINES COMMERCIALES
					TOTAL
2,450,274	1,564,251	84,143	361,096	2,611,784	Kilowatt-heure générés ..... (milliers)
460,267	290,320	48,617	98,056	624,878	Capacité en Kv.A. .....
60.78	61.51	19.76	42.04	51.72	Proportion de la production à la capacité maximum ..... p.c.
5,324	5,388	1,731	3,683	4,180	Moyenne de kilowatt-heure par Kv.A. .....
					Usines Hydrauliques
2,450,188	1,563,081	-	341,650	2,582,653	Kilowatt-heure générés ..... (milliers)
460,032	289,350	-	88,162	614,941	Capacité en Kv.A. .....
60.76	61.67	-	44.24	52.04	Proportion de production à la capacité maximum ..... p.c.
5,325	5,402	-	3,875	4,200	Moyenne de kilowatt-heure par Kv.A. .....
					Usines à combustible
86	1,170	84,143	19,446	29,131	Kilowatt-heure générés ..... (milliers)
235	970	48,617	9,894	9,937	Capacité en Kv.A. .....
41.78	15.77	19.76	22.43	33.47	Proportion de production à la capacité maximum ..... p.c.
3,660	1,206	1,731	1,965	2,932	Moyenne de kilowatt-heure par Kv.A. .....
					USINES MUNICIPALES
					TOTAL
8,087,486	668,603	159,741	193,938	18,371	Kilowatt-heure générés ..... (milliers)
1,453,824	145,301	94,229	83,856	8,572	Capacité en Kv.A. .....
63.50	52.53	19.35	26.40	24.46	Proportion de la production à la capacité maximum ..... p.c.
5,563	4,602	1,695	2,313	2,143	Moyenne de kilowatt-heure par Kv.A. .....
					Usines Hydrauliques
8,086,384	665,748	-	-	16,171	Kilowatt-heure générés ..... (milliers)
1,452,917	143,250	-	-	7,162	Capacité en Kv.A. .....
63.54	53.05	-	-	25.78	Proportion de production à la capacité maximum ..... p.c.
5,566	4,647	-	-	2,258	Moyenne de kilowatt-heure par Kv.A. .....
					Usines à combustible
1,102	2,855	159,741	193,938	2,200	Kilowatt-heure générés ..... (milliers)
907	2,051	94,229	83,856	1,410	Capacité en Kv.A. .....
13.87	15.69	19.35	26.40	17.81	Proportion de la production à la capacité maximum ..... p.c.
1,215	1,392	1,695	2,313	1,560	Moyenne de kilowatt-heure par Kv.A .....
					TOUTES USINES HYDRAULIQUES
10,536,572	2,228,829	-	341,650	2,598,824	Kilowatt-heure générés ..... (milliers)
1,912,949	432,600	-	88,162	622,103	Capacité en Kv.A. .....
62.88	58.81	-	44.24	51.71	Proportion de la production à la capacité maximum ..... p.c.
5,508	5,152	-	3,875	4,177	Moyenne de kilowatt-heure par Kv.A. .....
10,536,054	2,228,799	-	322,015	2,472,510	Kilowatt-heure générés par force motrice hydraulique ..... (milliers)
518	30	-	19,635	126,314	Kilowatt-heure générés par les usines auxiliaires ..... (milliers)
					TOUTES USINES A COMBUSTIBLE
1,188	4,025	243,884	213,384	31,331	Kilowatt-heure générés ..... (milliers)
1,142	3,021	142,846	93,750	11,347	Capacité en Kv.A. .....
11.87	15.21	19.49	25.98	31.52	Proportion de la production à la capacité maximum ..... p.c.
1,040	1,332	1,707	2,276	2,761	Moyenne de kilowatt-heure par Kv.A. .....
					CONSOMMATION D'ENERGIE ELECTRIQUE (En milliers de Kw.H.)
10,538,574	2,232,855	243,884	555,034	2,630,409	Total de kilowatt-heure générés .....
-	236	41	115	15,439	Kilowatt-heure importés des Etats-Unis .....
5,122,597	-	-	4,976	-	Kilowatt-heure importés d'autres provinces .....
2,545,895	1,220	-	-	282	Kilowatt-heure expertés aux Etats-Unis .....
37,224	-	-	-	4,976	Kilowatt-heure expertés à d'autres provinces .....
13,078,052	2,231,871	243,925	560,125	2,638,590	KILOWATT-HEURE CONSOMMES AU CANADA ..... (milliers)
1,787,359	389,865	52,724	56,977	206,377	Service domestique .....
651,868	106,346	45,870	58,185	129,689	Eclairage commercial .....
305,388	60,908	32,135	30,991	35,491	Petite force motrice .....
8,665,639	1,394,655	82,728	354,458	1,916,954	Grosse force motrice .....
87,029	20,799	7,239	10,221	19,842	Eclairage des rues .....
1,232	54	108	2,588	13,755	Service gratuit (autre que l'éclairage des rues) .....
1,579,537	259,244	23,121	66,705	316,482	Pertes .....

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

TABLE 15 - FUEL, 1944

	Bituminous Coal / Charbon Bitumineux			
	Canadian - Canadien		Imported - Importé	
	Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur
	Tons Tonnes	$	Tons Tonnes	$
CANADA	527,770	2,612,780	690	4,122
Prince Edward Island	12,231	107,145	-	-
Nova Scotia	211,044	1,115,619	-	-
New Brunswick	110,888	652,297	-	-
Quebec	283	2,531	340	2,200
Ontario	230	1,132	350	1,922
Manitoba	3,184	31,826	-	-
Saskatchewan	111,209	448,309	-	-
Alberta	38,446	50,749	-	-
British Columbia and Yukon	40,255	203,172	-	-

	Fuel Oil and Diesel Oil / Mazout et huile diesel		Wood / Bois	
	Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur
	Gal. Gal.	$	Cords Cordes	$
CANADA	29,418,899	1,907,366	1,211	7,599
Prince Edward Island	371,038	38,500	-	-
Nova Scotia	349,338	34,399	100	250
New Brunswick	114,498	12,501	-	-
Quebec	454,628	45,759	-	-
Ontario	291,731	33,130	-	-
Manitoba	247,936	30,944	995	5,609
Saskatchewan	10,481,927	610,546	-	-
Alberta	624,252	88,222	-	-
British Columbia and Yukon	16,483,551	1,013,365	116	1,740

Note: Tons = 2,000 lbs.
Gallons = Imperial
Cords = 128 cu. feet.

TABLEAU 15 - COMBUSTIBLE, 1944

Lignite Coal / Charbon Lignite		Gasolene / Gasoline		Kerosene / Kérosène	
Canadian - Canadien					
Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur
Tons Tonnes	$	Gal. Gal.	$	Gal. Gal.	$
257,549	660,707	42,512	10,017	4,625	829
-	-	750	190	-	-
-	-	-	-	-	-
-	-	-	-	—	-
-	-	-	-	-	-
-	-	235	66	-	-
1,650	8,303	470	127	-	-
75,385	139,984	18,555	4,157	50	15
180,514	512,420	13,789	2,908	4,575	814
-	-	8,713	2,569	-	-

Manufactured Gas / Gaz fabriqué		Natural Gas / Gaz naturel		Other Fuel / Autre combustible	Total
Quantity Quantité	Value Valeur	Quantity Quantité	Value Valeur	Value Valeur	Value Valeur
1,000 cu.ft. 1,000 pds.cu.	$	1,000 cu.ft. 1,000 pds.cu.	$	$	$
9,634,116	139,678	1,120,260	109,200	36,185	5,488,483
-	-	-	-	-	145,835
9,634,116	139,678	-	-	-	1,289,946
-	-	-	-	-	664,798
-	-	-	-	-	50,490
-	-	-	-	-	36,250
-	-	-	-	4,685	81,494
-	-	-	-	-	1,203,011
-	-	1,120,260	109,200	-	764,313
-	-	-	-	31,500	1,252,346

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