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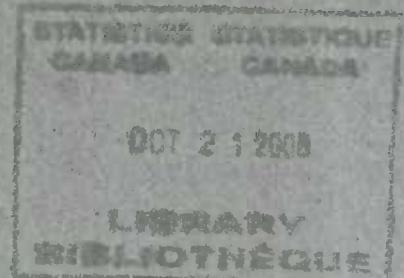
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CANADA
DOMINION BUREAU OF STATISTICS
TRANSPORTATION & PUBLIC UTILITIES BRANCH

CENSUS OF INDUSTRY

1932



CENTRAL ELECTRIC STATIONS
IN CANADA

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



OTTAWA
1940

Price 25 cents

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DOMINION BUREAU OF STATISTICS

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OTTAWA

STATISTICS CANADA STATISTIQUE CANADA

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CENTRAL ELECTRIC STATION INDUSTRY, 1932

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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 24 stations which were holding generating equipment classed as auxiliary plant equipment. Sixteen of them purchased all their electric energy and the remaining eight generated only 1,399,000 kilowatt hours. The Brandon station of the Manitoba Power Commission which was idle the greater part of the year, generated 1,064,200 kilowatt hours, or 75 per cent of this total, and the remaining seven stations generated only 314,800 kilowatt hours. This explains the rather anomalous item in table 13 showing the output of non-generating stations.

Included in these statistics are those of some 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 accurately as possible.

The total output of all stations in Canada during 1932 amounted to 16,052,057,000 kilowatt hours, which was a decrease from the 1931 output of 275,510,000, or 1.7 per cent. The exports to the United States dropped from 1,227,036,000 kilowatt hours in 1931 to 659,691,000, or by 567,345,000 kilowatt hours, which was more than twice the decrease in the output. The energy consumed in Canada, including all line losses, amounted to 15,392,918,000 kilowatt hours, or an increase of 283,641,000 kilowatt hours over the corresponding quantity for 1931. The surplus off-peak power exported to the United States by the Niagara plants amounted to 170,783,243 kilowatt hours in 1931 but in 1932 it was only 234,685 kilowatt hours. These off-peak exports decreased rapidly during the last six months of 1931, ceasing altogether at the end of the year, and small quantities were exported in 1932 only in March, September and October. In June 1933 they were resumed, but on a considerably reduced scale. These exports depend entirely on the market on the United States side of the river and, of course, are limited to quantities available.

Electricity is exported from Canada only by licence granted by the Electricity and Gas Inspection Service 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 fiscal year ended March 31, 1933, the export duty amounted to \$87,745 as against \$182,702 for the previous year. The rate is three one-hundredths of one cent per kilowatt hour on electric energy exported with certain exports excepted. Below is a table showing the quantities of power produced for export for the calendar year 1932, also the amounts exported, the differences between the two quantities being the line losses. The data for this table were compiled from the annual reports of the Director of the Electricity and Gas Inspection Services.

KILOWATT HOURS PRODUCED FOR EXPORT AND EXPORTED TO THE UNITED STATES, 1932 (Calendar Year).

Company	Produced for Export	Exported
	Kilowatt Hours	Kilowatt Hours
Hydro Electric Power Commission of Ontario	354,449,700	350,019,900
Hydro Electric Power Commission of Ontario (Surplus)	224,700	219,185
Cedar Rapids Manufacturing and Power Company, Ltd.	187,269,450	180,076,312
Canadian Niagara Power Company, Ltd.	109,022,500	103,049,092
Canadian Niagara Power Company, Ltd. (Surplus)	15,300	15,300
Western Power Company of Canada, Ltd. ....	...	...
Ontario and Minnesota Power Company, Ltd.	13,329,550	13,329,550
Maine and New Brunswick Electrical Power Company	12,025,278	11,434,344
British Columbia Electric Railway Company, Ltd.	162,132	141,055
Northport Power and Light Company	230,562	230,652
Maritime Electric Company, Ltd.	320,752	320,752
Southern Canada Power Company	434,086	423,026
Northern British Columbia Power Company	50,690	50,690
The International Railway Company	200,121	210,121
Fraser Companies, Ltd.	3,009,400	7,979,000
Detroit and Windsor Subway Company	371,900	371,900
TOTAL	686,125,221	667,880,085
Kilowatt hours produced for export and exported by central electric stations only	677,915,706	659,600,984

Of the total output of 16,052,057,000 kilowatt hours, 15,723,838,000 kilowatt hours, or 95 per cent, were produced by water power and the remaining 2 per cent by steam and internal combustion engines. The rated capacity of water wheels and turbines in 1932 was 6,036,259 horse power, having increased from 1,754,130 horse power in 1920. This was an increase of 244 per cent in twelve years whereas the capacity of all main plant thermal engines rose from 142,894 horse power in 1920 to 307,395 horse power in 1932, an increase of 115 per cent.

The total hydraulic installation in all industries in Canada in 1932, as compiled by the Dominion Water Power and Hydrometric Bureau, was 7,045,260 horse power which was about 16 per cent of the total that the recorded falls would warrant installing under present day practices. The available and developed water power in Canada is shown below.

POTENTIAL AND DEVELOPED WATER POWER IN CANADA

Province	Available 24-hour power at 80% efficiency		Turbine Installation	
	At Ordinary Minimum Flow	At Ordinary Six Months Flow	1932	1933
(1)	(2) H.P.	(3) H.P.	(4) H.P.	(5) H.P.
Prince Edward Island	3,000	5,300	2,439	2,439
Nova Scotia	20,500	128,300	112,167	112,167
New Brunswick	68,600	169,100	133,681	133,681
Quebec	8,459,000	13,064,000	3,357,320	3,493,320
Ontario	5,330,000	6,940,000	2,208,105	2,355,105
Manitoba	3,309,000	5,344,500	390,925	390,925
Saskatchewan	542,000	1,082,000	42,035	42,035
Alberta	390,000	1,049,500	71,597	71,597
British Columbia	1,931,000	5,103,500	713,792	717,602
Tukon and Northwest Territories	294,000	731,000	13,199	13,199
CANADA	20,347,400	33,617,200	7,045,260	7,332,070

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 43,700,000 horse-power.

Of the total water power developed in Canada the central electric stations contained 86 per cent and pulp and paper mills operating in 1932 contained 6.5 per cent, but these mills purchased from central electric stations 5,695,478,000 kilowatt hours, or 35.5 per cent of their total output. Excluding exports, the ratio was 37.0 per cent and nearly half of the current purchased, or 2,695,076,000 kilowatt hours, was for use in electric boilers. Quebec mills purchased the major part of this power, using 2,158,502,000 kilowatt hours in electric boilers and 1,983,543,000 kilowatt hours for other purposes, or a total of 4,172,045,000 kilowatt hours, which was 61 per cent of the total sales within the province, or output less exports; the exports from Quebec to Ontario for use in that province during the year amounted to 1,452,732,000 kilowatt hours, or 17.1 per cent of the Quebec output. New Brunswick pulp and paper mills also purchased a very large percentage of the output of central electric stations of that province. The electro-chemical industry is also a large user of electricity. Of 16 plants reporting in 1932, 15 purchased 1,724,356,000 kilowatt hours from central electric stations, or 10.7 per cent of their total output. The Ontario plants, most of which are in the Niagara peninsula, purchased 750,276,000 kilowatt hours and the remainder was purchased by the Consolidated Mining and Smelting Company in British Columbia and by Quebec plants.

The following table shows the provincial production plus the imports less exports, the net amount being the consumption within the province, including all line losses. Only Ontario, Alberta and British Columbia and the Yukon showed decreases from 1931 and for Canada the increase amounted to 1.58 per cent.

CONSUMPTION OF ELECTRIC ENERGY IN CANADA (INCLUDING LINE LOSSES)
(Thousands of Kilowatt Hours)

Province	1932	1931	Increase + Decrease -	
			Kilowatt Hours	Per cent
Prince Edward Island	4,662	4,413	+ 249	5.84
Nova Scotia	279,854	257,573	+ 22,281	8.65
New Brunswick	421,142	397,076	+ 24,066	6.06
Quebec	6,845,565	6,469,206	+ 376,359	5.82
Ontario	5,250,962	5,331,386	- 80,424	1.51
Manitoba	1,087,167	1,084,919	+ 2,248	0.21
Saskatchewan	135,898	139,014	+ 1,884	1.41
Alberta	197,395	207,002	- 9,607	0.46
British Columbia and Yukon	1,170,273	1,223,682	- 53,415	4.37
CANADA	15,392,918	15,109,277	+ 283,641	1.88

Sales in large blocks, especially for electric boilers, are at rates considerably below the rates charged for current to small power customers and to lighting customers and consequently have a very marked effect on the average revenue for all power produced, or for all sales for power purposes. In Quebec the average revenue for the total output was considerably lower than for any other province, being only 0.53 cent. In New Brunswick and Nova Scotia it was 0.77 cent and 1.56 cent, respectively; in these provinces sales to pulp and paper mills were important factors. In Manitoba the average was only 0.60 cent per kilowatt hour, the main factor in this low average being a flat rate for water heaters in Winnipeg which reduced the provincial domestic service rate to 1.06 cents per kilowatt hour, by far the lowest of all the provinces.

In making comparisons between groups of stations all factors should be considered as far as it is possible or very inaccurate deductions may be made.

TABLE 1 - COMPARATIVE SUMMARY. 1923-1932

There has been little change in the number of plants operated during the past decade but the investment has increased from \$581,780,611 in 1923 to \$1,335,886,987, or by 130 per cent. The output also more than doubled, increasing from 8,099,192,000 to 18,093,802,000 kilowatt hours in 1930 and to 16,052,057,000 kilowatt hours in 1932. The number of domestic service customers, or the number of homes using electricity, increased by 437,239 or 47.5 per cent, amounting to 1,357,462 in 1932. Although the output was doubled the rated capacity in main plant was almost trebled, increasing from 1,861,845 K.V.A. in 1923 to 5,278,204 K.V.A., or by 183.5 per cent. In computing the revenues in this table inter-station payments have been deducted and the payments by consumers and United States importers only have been considered revenue.

TABLE 2 - POWER PLANTS

The definition of a central electric station as adopted for census purposes was given at the beginning of this report. Some organizations operate several systems which are in different municipalities and which are not connected by transmission lines, and, in other cases, many municipalities are served from one power plant. The organizations reporting are counted as they report. If a commercial organization makes a separate report for each of its subsidiary companies, each such subsidiary company is counted, and if it includes them all in one report, they are counted as only one organization. The nature of control is so varied that it is not practicable to do otherwise. The power plants shown in this table are individual plants, counted irrespective of ownership or location. In some cases, two or more of these are operated by one company, some of them being close together, and others, miles apart. During the year there was a net increase in plants operated of 13. In Ontario, Saskatchewan, Alberta and British Columbia increases of 5, 2, 6 and 4 plants, respectively, were recorded and in New Brunswick there was a decrease of 4 plants.

TABLE 3 - CAPITAL

The capital employed in the industry is reported under four heads, viz., generation, transmission, distribution, and general. Generation includes investments in power houses and sites, dams, penstocks, flumes, storage and regulating structures, etc., tanks, storage basins, etc., and equipment in power houses, except step-up transformers or other transmission equipment. Transmission includes investments in receiving stations and sites, rights of way of transmission lines and step-up transformers. Distribution includes investments in substations and sites and rights of way of distribution lines, switchboards and step-down transformers in receiving stations and substations, distribution lines, line transformers, meters, etc. General includes investments in office buildings, sites and fixtures, materials and supplies on hand, cash, trading and operating accounts and bills receivable. The total represents the capital employed in the industry. The capital is the total, as at December 31, of stations operating and does not

include any investments by new organizations not yet operating, but does include expenditures by organizations operating plants which have been made for future installations of equipment. Consequently the averages per horse power and per K.V.A. are increased by the inclusion of such capital. The averages of investment per mile of distribution and transmission line are more indicative of the different types of lines in each province than of comparative costs of the same types. The total investment of \$1,335,836,937 as at December 31, 1932, was the largest investment in any manufacturing industry in Canada and was an increase over the 1931 total of \$105,898,036. Quebec stations which accounted for 43 per cent of the total investment showed an increase during the year from \$495,841,547 to \$574,953,411 and Ontario stations increased from \$463,410,859 to \$473,717,409. The averages of total capital per horse power and per K.V.A. include all transmission, distribution and general capital, but the averages of generation capital per rated unit of power equipment include only investments in power houses, etc. as described above.

TABLE 4 - REVENUES

The schedule required 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 private residences, (3) commercial light, (4) power, small, 50 K.W. and under, (5) power, large, over 50 K.W., (6) sales to distributing companies, and (7) street lighting, also the quantity of electricity supplied without charge for street lighting, 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 previous reports 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. For the last two provinces the differences were slight, but for Ontario in 1931 revenue from large power would have been increased from \$20,984,502 to \$27,253,951 and total revenue would have been increased by the same amount if computed as in 1932. Also, by dividing this total revenue by the kilowatt hours generated plus the kilowatt hours imported, the average revenue per kilowatt hour sold would have been reduced from 0.95 to 0.81 cent. As explained previously, 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, but even here 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. An outstanding example of the effect of supply is the city of Winnipeg, Manitoba, which, with an abundant supply of hydro-electric power, has a domestic lighting rate of 3 cents net per kilowatt hour for the first block and 0.9 cent for the remainder, but current for water heaters is sold on a flat rate basis and consequently large quantities are used, reducing the average cost per kilowatt hour for the combined services to 0.85 cent. Fort William, Ontario, also with a combination of low rates for light and flat rates for water heaters, had an average for all domestic services of 0.7 cent per kilowatt hour. 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 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 and for commercial light, line losses were not included, the consumption for these two 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.

TABLE 5 - 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. Salaries were reduced from \$26,306,956 in 1931 to \$23,261,166 and the cost of fuel was somewhat lower but the other two items were larger. Taxes paid by municipal systems include taxes levied on commercial plants acquired by the Ontario provincial system and continued, and, in Manitoba, Saskatchewan and Alberta, taxes paid by the municipal systems of Winnipeg, Saskatoon, Lethbridge and Calgary accounted for practically the total amount. Taxes paid by other municipal systems were relatively small. Taxes paid by commercial stations amounted to \$5,484,511, or 6.2 mils on the dollar of capital including investments in plant, operating capital, etc. In relation to gross revenues, taxes of commercial stations were 6.3 per cent.

TABLE 6 - EMPLOYEES

There was a decrease in the number of employees from 1931 of 1,619, or 9.5 per cent. The decreases were general throughout all the provinces except New Brunswick and this was the second year to show decreased employment. The largest decreases were in Quebec and Ontario where cuts of 661, or 16.0 per cent, and 575, or 7.7 per cent, respectively, were made.

TABLE 7 - CUSTOMERS

As explained under table 4, the schedule asked for a division of customers into seven classes, but due to inability of many of the stations to make complete segregation between domestic service and farm customers these two have been combined. Each municipality using electricity for street lighting has been counted as one street lighting customer. In some cases the current was supplied by commercial stations and in others the municipality itself distributed it. The provinces having high percentages of urban populations had the greatest densities of domestic service customers. British Columbia led with an average of 17.82 domestic service customers per 100 population, Ontario followed with an average of 16.92, and Quebec was next with 13.26. Although the fuel stations generated only 2 per cent of the total output they served 94,869 domestic service customers, or 7.0 per cent of the total.

TABLE 8 - POLE LINE MILEAGE

The pole line mileage is divided into two divisions, (a) transmission, which includes lines from power houses to receiving stations, and (b) distribution, which includes lines from receiving stations to substations and to customers and, if the power is not stepped up in any power house for transmission, all the pole line mileage of that system is included with the distribution mileage. These mileages are counted irrespective of the number of circuits carried on the poles and towers. Increases in pole line mileage were recorded in every province. Ontario leading with a gain of 438 miles and Nova Scotia was second with 290 miles, the total increase for Canada being 1,446 miles.

TABLES 9-10-11 - 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 fuel 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 2,111,000 kilowatt hours being generated during the year by this auxiliary equipment. In previous years the greater part of this output of auxiliary equipment in hydro-electric plants was produced by British Columbia stations, but such operations were greatly reduced in 1931 and 1932. During the year the net increase in main plant equipment was 636,897 horse power in primary power and 550,523 K.V.A. in dynamo capacity. Quebec stations added 398,455 horse power, Ontario stations added 95,440 horse power, British Columbia stations, 57,513 horse power, and Manitoba stations, 53,925 horse power. During the year 14 hydraulic turbines with capacities of over 25,000 horse power were added with an average capacity of 36,700 horse power. Quebec stations added 10 of these and Ontario stations added 4. One of these was installed in 1931 but was not taken into the statistics until 1932. In Manitoba three wheels of 20,000 horse power each and in British Columbia three wheels of 19,000 horse power each were added. There was a net increase in D.C. dynamos of 9 but a decrease in the total capacity of 53 kilowatts.

TABLE 13 - 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. All the large stations meter their output and for those stations which have no watt hour meters, the kilowatt hours are estimated as best possible. The K.V.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 maximum capacity of a 1,000 K.V.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. 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 for 1932 was 35.9 per cent and was the lowest during the past decade. The highest ratio was reached in 1928 with 51.2 per cent and the ratio has decreased each succeeding year. It is quite obvious that the output will never reach 100 per cent of the rated capacity of the industry and it is also apparent that the present installations could meet a demand considerably greater than the 1932 load. 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 has been growing quite rapidly, rising from 260,489,000 kilowatt hours in 1924 to 2,836,339,000 kilowatt hours in 1932. The electricity sold for use in electric boilers during 1931 and 1932 was as follows.

ELECTRICITY SOLD FOR USE IN ELECTRIC BOILERS
(Thousands of Kilowatt Hours)

	1931	1932
January	146,422	221,722
February	140,603	216,103
March	145,948	235,503
April	191,119	258,160
May	153,920	219,912
June	128,333	200,720
July	117,200	193,527
August	119,633	210,034
September	126,849	216,719
October	184,531	278,852
November	209,351	289,223
December	206,116	292,564
TOTAL	1,872,025	2,836,339

At the foot of table 13 is shown the total quantity of power generated to which is added the imports and from which is deducted the exports, leaving the quantity for consumption within each province. A complete segregation by classes of customers and line losses was not made in Ontario and consequently the last five items were grouped for Ontario and for Canada. Consumptions for street lighting and power purposes contain some estimates but the data for domestic service and commercial lighting consumptions were fairly complete.

TABLE 14 - FUEL

The total fuel bill was reduced from \$1,892,252 in 1931 to \$1,833,515 in 1932. No anthracite coal was reported and the imported coal was reduced from 28,057 tons to 8,226 tons. The greater part of the gasoline, kerosene and fuel oil was used in Saskatchewan and Alberta.

DOMESTIC SERVICE

On the following page is a table bringing together and analysing the domestic service data for each province. The concentration of population in the cities, towns and villages having electric service would affect the number of customers, the number per 100 population, and ratios of consumption to total provincial consumptions and to the domestic consumption in Canada. The price would affect consumption, average bill, average cost per kilowatt hour and, to a lesser degree, the number of customers. The habits and customs of the people also would have an effect on the consumption. British Columbia ranked first in density of customers, Ontario was second and Quebec third. The annual average bills for domestic service were remarkably close together in all the provinces, especially in view of the large differences in consumptions and cost per kilowatt hour. This indicates that with adequate supply low rates greatly induce increased consumption. Manitoba showed by far the lowest average cost per kilowatt hour and the largest consumption per customer and per capita. These were largely affected by the flat rate for water heaters in Winnipeg which increases the consumptions and reduces the average cost per kilowatt hour. The effect of flat rates should always be analysed when comparing costs. The general effect is to greatly increase consumption and reduce average cost per kilowatt hour although the peak demand on the power house might even be reduced.

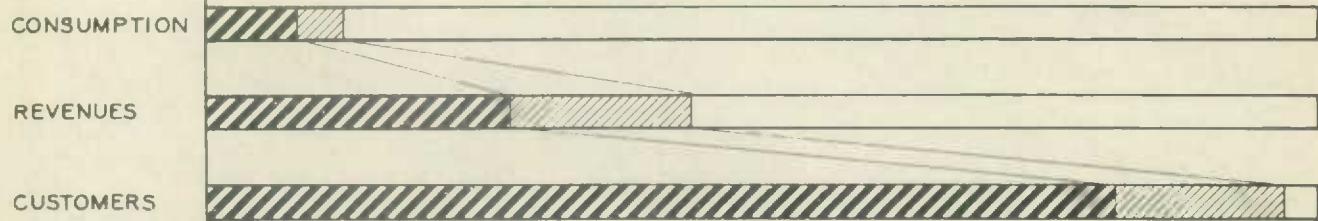
DOMESTIC SERVICE

1932

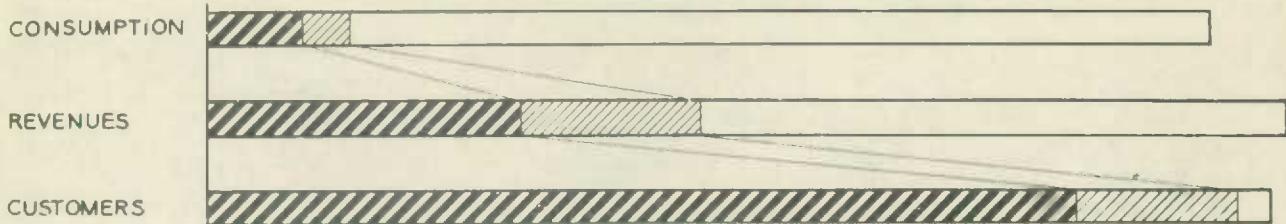
Province	Number of Customers		Average Bill (For Year)	Average per Kilowatt Hour	Average Annual Consumption		Consumption by Domestic Service	
	Total	Per 100 Population			Per Customer	Per Capita	Per cent of Total Provincial Consumption	Per cent of Dominion D.S. Consumption
P.E. Island	3,978	4.52	\$ 32.64	8.67	377	17	32.1	0.1
Nova Scotia	46,421	9.05	25.88	5.66	457	41	7.6	1.3
New Brunswick	35,543	8.69	27.33	5.05	541	47	4.6	1.2
Quebec	385,211	13.26	21.31	3.43	621	82	3.5	14.6
Ontario	585,343	16.92	27.63	1.77	1,558	262	17.4	55.6
Manitoba	71,954	10.21	39.93	1.06	3,756	381	24.9	16.5
Saskatchewan	44,952	4.63	40.10	4.99	804	39	26.6	2.2
Alberta	57,459	7.76	29.84	5.75	518	40	15.1	1.8
British Columbia and Yukon	126,601	17.88	26.45	3.04	870	156	9.4	6.7
CANADA	1,357,462	12.92	26.53	2.22	1,208	156	10.7	100.0

CENTRAL ELECTRIC STATIONS

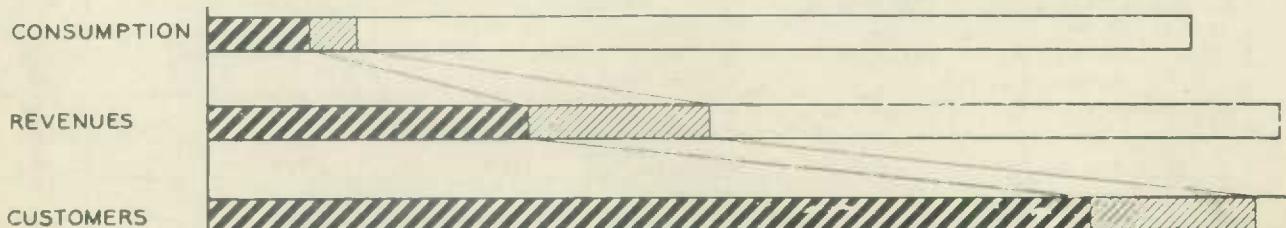
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1931



1932



DOMESTIC SERVICE

COMMERCIAL LIGHT

ALL OTHER

NOTE: * All other includes power, street lighting, free service, exports and line losses

Table 1 - COMPARATIVE SUMMARY, 1932-1923

Principal Data by Class of Station	1932	1931	1930	1929
<u>Electric Power Plants-</u>				
Total	572	559	587	585
Hydraulic	312	307	311	300
Fuel	260	252	276	285
Commercial	402	396	421	420
Municipal	170	163	166	165
<u>Capital</u>				
Total	\$ 1,335,886,987	1,229,988,951	1,138,200,016	1,055,731,532
Commercial	\$ 880,013,400	785,915,480	723,890,071	685,771,270
Municipal	\$ 455,873,587	444,073,471	414,309,945	369,960,262
Generating	\$ 1,191,499,567	1,092,292,089	995,701,285	926,103,973
Non-generating	\$ 144,387,420	137,696,862	142,498,731	129,627,559
<u>Revenue (1)</u>				
Total	\$ 121,212,679	122,310,730	126,038,145	122,883,446
Commercial	\$ 73,124,089	72,103,930	73,261,572	70,874,794
Municipal	\$ 48,088,590	50,206,800	52,776,573	52,008,652
Generating	\$ 100,821,712	101,475,523	104,632,540	102,704,833
Non-generating	\$ 20,390,967	20,835,207	21,405,605	20,178,613
<u>Expenses (2)</u>				
Total	\$ 74,306,251	75,235,767	74,209,469	67,432,418
Commercial	\$ 30,349,320	32,418,131	33,712,063	31,888,591
Municipal	\$ 43,956,931	42,817,636	40,497,406	35,543,827
Generating	\$ 40,262,157	41,336,873	40,646,659	36,713,723
Non-generating	\$ 34,044,094	33,898,894	33,562,810	30,718,695
<u>Pole Line Mileage-</u>				
Total	53,845	52,399	48,814	42,913
Commercial	25,010	24,299	23,614	22,356
Municipal	28,835	28,100	25,200	20,557
Generating	40,675	39,709	35,707	30,718
Non-generating	13,170	12,690	13,107	12,195
<u>Customers-</u>				
Total	1,657,454	1,632,792	1,607,766	1,555,883
→ Domestic Service	1,357,462	1,336,721	1,317,324	(3) 1,292,481
Commercial Light	248,487	244,634	238,847	(4) 233,854
Power (small)	28,942	25,913	24,836	{ 28,001
Power (large)	20,593	23,583	25,150	{ 1,547
Street lighting	1,970	1,941	(5) 1,724	.....
Commercial Stations	776,400	758,285	745,608	733,698
Municipal Stations	881,054	874,507	862,158	822,185
Generating Stations	846,420	835,460	814,268	796,298
Non-generating Stations	811,034	797,332	793,498	759,585
<u>Electric Energy Generated-</u>				
Total Kilowatt Hours (thousands)	16,052,057	16,330,867	18,093,802	17,962,515
Commercial	12,338,216	12,191,139	12,937,014	12,774,107
Municipal	3,713,841	4,139,707	5,156,788	5,188,408
<u>Exports of Electricity to the United States (thousands) Kw.H.</u>				
States (thousands)	659,691	1,227,036 ✓	1,612,281	1,444,524
<u>Imports of Electricity from the United States (thousands) Kw.H.</u>				
States (thousands)	552	5,446 ✓	5,757	6,133
<u>Equipment in Generating Stations (Main Plant Only)-</u>				
Total Primary Power	H.P.	6,343,654	5,706,757	5,401,108
Total in Commercial Stations	H.P.	4,577,493	4,046,810	3,794,819
Total in Municipal Stations	H.P.	1,766,161	1,659,947	1,606,289
Total Secondary Power	K.V.A.	5,278,204	4,727,376	4,474,865
Total in Commercial Stations	K.V.A.	3,850,009	3,388,926	3,181,428
Total in Municipal Stations	K.V.A.	1,428,195	1,338,450	1,293,437
<u>Auxiliary Plant Equipment-</u>				
Primary Power	H.P.	184,879	184,043	171,453
Secondary Power	K.V.A.	157,077	157,221	145,678
(1) Duplicates excluded.				
(2) Includes wages, cost of power and fuel for 1932-1923 and for 1932-1925 taxes, but not other expenses.				

(1) Duplicates excluded.

(2) Includes wages, cost of power and fuel for 1932-1923 and for 1932-1925 taxes, but not other expenses.

Table 1 - COMPARATIVE SUMMARY, 1928-1923

1928	1927	1926	1925	1924	1923
601	629	595	563	532	532
300	302	294	284	273	269
301	327	301	279	259	263
428	432	393	365	333	335
173	197	202	198	199	197
956,919,603	866,825,285	756,220,066	726,721,087	628,565,093	581,780,611
614,910,399	528,070,964	430,817,426	409,862,801	326,554,580	307,046,240
342,009,204	338,754,321	325,402,640	316,858,286	302,010,513	274,734,371
835,422,031	750,703,270	647,850,154	625,970,883	532,016,164	489,085,939
121,497,572	116,122,015	108,369,912	100,750,204	96,548,929	92,694,672
112,326,819	104,033,297	88,933,733	79,341,584	74,616,863	67,496,893
64,575,700	59,320,175	47,911,555	42,195,543	39,033,665	37,040,835
47,751,119	44,713,122	41,022,178	37,146,041	35,583,198	30,456,058
92,722,293	86,369,058	72,123,290	63,547,553	59,861,915	52,681,003
19,604,526	17,664,239	16,810,443	15,794,031	14,754,948	14,815,890
62,330,860	60,169,781	52,766,799	47,635,531	40,887,779	41,067,329
30,961,337	28,704,496	24,622,619	21,325,849	16,777,557	15,319,394
31,369,523	31,465,285	28,144,180	26,309,882	24,110,222	25,747,935
33,837,618	31,920,941	27,655,269	24,857,279	20,198,257	20,992,105
28,493,242	28,248,840	25,111,530	22,778,252	20,689,522	20,075,224
37,333	33,573	29,695	27,653	26,654	23,560
18,875	16,747	14,257	13,047	12,102	11,146
18,458	16,826	15,438	14,606	14,552	12,414
25,524	23,246	20,005	18,372	17,340	14,405
11,809	10,327	9,690	9,281	9,314	9,155
1,464,005	1,381,968	1,337,562	1,279,731	1,200,950	1,112,547
1,207,457	1,142,512	1,110,637	1,063,530	989,510	920,223
215,728	199,431	188,553	180,994	176,444	159,929
{ 40,820	{ 40,025	{ 38,372	{ 35,207	{ 34,996	{ 32,395
.....
677,223	622,823	584,760	559,172	521,064	496,591
786,782	759,145	752,802	720,559	679,886	615,956
728,872	699,874	680,117	653,032	610,206	547,928
735,133	682,094	656,845	626,699	590,744	564,619
16,337,804	14,549,099	12,093,445	10,110,459	9,315,277	8,099,192
11,460,974	9,944,422	7,797,480	6,527,103	6,024,312	5,074,120
4,876,830	4,604,677	2,295,365	3,583,356	5,290,965	3,025,072
1,587,751	1,632,614	1,506,002	1,285,540	1,302,317	1,343,501
5,223	5,020	5,354	.....	.....	.....
4,627,667	4,173,349	3,769,323	3,569,527	2,849,450	2,423,845
3,268,350	2,797,055	2,423,244	2,243,318	1,701,793	1,451,498
1,359,317	1,375,294	1,346,079	1,326,209	1,147,657	972,347
3,764,331	3,325,227	2,995,387	2,844,709	2,282,046	1,861,845
2,690,097	2,297,005	1,938,048	1,803,545	1,401,471	1,140,945
1,074,234	1,058,222	1,057,339	1,041,164	880,575	720,900
159,233	145,047	176,865	173,170	168,102	149,572
135,440	121,563	145,828	142,421	136,755	121,532

(3) Farm service is included with domestic service.

(4) Includes small power customers in 1929.

(5) Revised.

TABLE 2 - ELECTRIC POWER PLANTS, 1932

	Canada	Prince Edward Island	Nova Scotia	New Brunswick
<u>Total Number of Generating Stations</u>	572	11	48	15
Per cent of total for Canada	100.00	1.92	8.39	2.62
<u>Commercial</u>	402	9	24	10
Hydraulic	210	8	13	4
Fuel	192	1	11	6
<u>Municipal</u>	170	2	24	5
Hydraulic	102	..	20	3
Fuel	68	2	4	2
With water wheels and turbines	312	8	33	7
With steam engines only	37	..	1	2
With steam turbines only	19	1	7	1
With gas or oil engines only	192	2	6	4
With both steam engines and turbines	8	..	1	1
With both steam and gas or oil engines	4	..	..	..
With alternating current dynamos only	428	10	45	10
With direct current dynamos only	139	1	3	4
With both alternating and direct current dynamos...	5	..	..	1
<u>Commercial Organizations</u>	x 362	8	27	21
Number generating power	281	7	14	9
Number buying power for redistribution	80	1	13	12
<u>Municipalities</u>	x 464	2	29	14
Number generating power	82	2	11	4
Number buying power for redistribution	381	..	18	10
<u>Auxiliary Plants</u>	65	2	7	6
To hydraulic stations	41	2	3	..
To non-generating stations	24	..	4	6

x - Organizations operating in two or more provinces are not shown under provinces, but are included in total.

TABLE 2 - ELECTRIC POWER PLANTS, 1932

Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon
96	130	28	121	62	61
16.78	22.73	4.90	21.15	10.84	10.67
82	64	14	94	53	52
80	60	4	..	5	36
2	4	10	94	48	16
14	66	14	27	9	9
12	58	3	..	1	5
2	6	11	27	8	4
92	118	7	..	6	41
..	10	4	1	14	5
2	..	..	4	2	2
2	2	15	112	37	12
..	..	1	3	2	..
..	..	1	1	1	1
94	123	21	44	31	50
1	7	6	77	30	10
1	..	1	..	1	1
64	51	16	76	50	48
44	42	11	74	44	36
20	9	5	2	6	12
26	323	16	21	16	16
9	18	10	14	7	7
17	305	6	7	9	9
7	11	8	..	9	15
7	7	3	..	7	12
..	4	5	..	2	3

TABLE 3 - CAPITAL. 1932

	Canada	Prince Edward Island	Nova Scotia	New Brunswick
	\$	\$	\$	\$
<u>Total Capital</u>	1,335,886,987	1,059,558	29,944,161	29,456,115
Per cent of total for Canada	100.00	0.08	2.24	2.21
Generation	831,300,067	543,267	18,911,360	20,556,663
Transmission	210,340,309	..	4,049,286	3,483,786
Distribution	219,123,486	415,776	5,123,042	4,023,208
General	75,123,105	100,515	1,860,473	1,304,458
<u>Total Capital in Commercial Stations</u>	880,013,400	913,464	13,791,180	20,937,748
Generation	627,719,405	454,796	5,972,309	16,529,024
Transmission	112,974,246	..	2,598,772	1,739,637
Distribution	94,919,075	373,189	3,818,652	1,610,681
General	48,400,674	85,479	1,401,447	1,058,406
Non-generating stations	34,548,964	5,000	2,048,589	2,021,323
Generating stations	845,464,436	908,464	11,742,591	18,916,425
Hydraulic stations	818,694,202	73,523	3,255,252	15,487,726
Fuel stations	26,770,234	834,941	8,487,339	3,428,699
<u>Total Capital in Municipal Stations</u>	455,373,587	146,094	16,152,981	8,520,367
Generation	207,580,682	88,471	12,939,051	4,027,639
Transmission	97,366,063	..	1,450,514	1,744,149
Distribution	124,204,411	42,587	1,304,390	2,412,527
General	26,722,431	15,036	459,026	336,052
Non-generating stations	109,833,456	..	1,220,473	1,488,232
Generating stations	346,035,131	146,094	14,923,506	7,032,135
Hydraulic stations	325,468,248	..	14,500,668	5,035,104
Fuel stations	20,566,883	146,094	422,840	1,997,031
<u>Total Capital in Non-generating Stations</u>	144,387,420	5,000	3,278,062	3,509,555
Generation	1,804,985	..	234,626	640,586
Transmission	6,829,305	..	206,836	232,798
Distribution	117,777,323	5,000	2,298,404	2,034,857
General	17,975,807	..	488,196	601,314
<u>Total Capital in Generating Stations</u>	1,191,495,567	1,054,558	26,666,099	25,948,560
Generation	829,495,102	543,267	18,626,734	19,916,077
Transmission	203,511,004	..	3,842,450	3,250,988
Distribution	101,346,163	410,776	2,824,638	1,988,351
General	57,147,298	100,515	1,372,277	793,144
Hydraulic stations	1,144,162,450	73,523	17,755,920	20,522,830
Fuel stations	47,337,117	981,035	8,910,179	5,425,730
<u>TOTAL CAPITAL</u>				
Average per H.P. of primary power	211	192	196	225
Average per H.P. including auxiliary equipment	205	188	192	215
Average per K.V.A. of dynamo capacity	253	215	235	266
Average per K.V.A. including auxiliary equipment	246	215	230	256
<u>Generation</u>				
Average cost per H.P. (including auxiliary equipment)-				
In all generating stations	128	96	122	152
In hydraulic stations	130	98	174	156
In fuel stations	83	101	61	137

TABLE 3 - CAPITAL, 1932

Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon
\$	\$	\$	\$	\$	\$
574,953,411 43.04	473,717,409 35.46	x 78,330,880 5.86	x 25,543,138 1.91	27,714,695 2.08	95,165,620 7.12
424,716,924 71,294,621 48,653,660 30,288,206	242,313,636 98,926,904 105,298,144 27,178,725	45,010,702 11,211,996 17,433,026 4,675,156	12,459,821 3,988,539 7,677,864 1,417,514	13,226,616 6,602,926 6,932,763 952,390	53,561,098 10,782,251 23,566,603 7,255,668
567,218,230 420,398,499 71,031,710 45,840,386 29,947,635	106,015,990 78,815,507 12,936,684 8,545,531 5,718,268	44,607,882 31,849,546 5,597,420 5,430,012 1,730,904	12,189,939 6,199,217 1,908,603 3,450,419 631,700	21,321,399 10,755,278 6,455,462 3,440,648 670,011	93,017,568 52,745,229 10,705,958 22,409,557 7,156,824
3,182,902 564,035,328 563,969,705 65,623	2,225,244 103,790,746 103,757,553 33,193	903,883 43,703,999 43,302,597 401,402	1,732,009 10,457,930 ... 10,457,930	87,894 21,233,505 18,597,072 2,636,433	22,342,120 70,675,448 70,250,774 424,674
7,735,181 4,318,425 262,911 2,813,274 340,571	367,701,419 163,498,129 85,990,220 96,752,613 21,460,457	33,722,998 13,161,156 5,614,676 12,003,014 2,944,252	13,353,199 6,260,604 2,079,936 4,226,645 785,814	6,393,296 2,471,338 147,464 3,492,115 282,379	2,148,052 815,869 76,293 1,157,046 98,844
822,625 6,912,556 5,369,867 1,542,689	96,498,167 271,203,252 271,038,158 165,094	4,918,880 28,804,118 28,219,724 584,394	1,832,997 11,520,202 ... 11,520,202	2,081,512 1,311,784 237,481 4,074,303	966,570 1,181,482 1,067,246 114,236
4,005,527 ... 1,342,266 2,475,386 187,875	98,723,411 121,468 444,909 56,745,761 11,411,273	5,822,763 613,438 2,267,031 2,398,916 543,378	3,565,006 ... 863,284 2,446,095 255,627	2,169,406 62,505 85,331 1,984,598 36,972	23,308,690 82,362 1,386,850 17,388,306 4,451,172
570,947,884 424,716,924 69,952,355 46,178,274	374,993,998 242,192,168 98,481,995 18,552,383	72,506,117 44,397,264 8,044,965 15,034,110	21,976,132 12,459,821 3,125,255 5,231,169	25,545,289 13,164,111 6,517,595 7,748,165	71,856,930 53,478,736 9,335,401 6,178,297
30,100,331 569,339,572 1,608,312	15,767,452 374,795,711 198,287	11,131,778 71,522,321 985,796	1,161,887 ... 21,978,132	915,418 18,874,553 6,710,736	2,804,496 71,318,020 538,910
197 195 229 227	253 248 312 305	178 165 221 204	189 189 222 222	215 184 264 223	169 155 218 199
144 144 152	127 127 126	95 95 164	92 .. 92	88 111 52	87 87 92

x - Capital invested in one hydraulic station in Saskatchewan included under Manitoba.

TABLE 4 - REVENUE, 1932

	Canada	Prince Edward Island	Nova Scotia	New Brunswick
REVENUES	\$	\$	\$	\$
Revenue from sale of electric energy	121,212,679	274,555	4,356,412	3,340,257
For domestic service	36,422,073	129,835	1,201,279	971,597
For commercial light	20,431,560	76,709	762,822	469,390
For power (small)	5,244,595	35,473	376,025	206,925
For power (large)	54,261,187	13,743	1,816,776	1,584,442
For street lighting	4,853,264	18,795	199,510	107,903
Revenue of Commercial Stations	73,124,089	223,592	2,716,904	2,266,942
Non-generating	4,973,595	507	461,039	349,858
Generating	68,150,494	223,085	2,255,865	1,917,084
Hydraulic	63,409,538	19,671	413,178	1,474,217
Fuel	4,740,956	203,414	1,842,687	442,867
Revenue of Municipal Stations	48,088,590	50,963	1,639,508	1,073,315
Non-generating	15,417,372	...	309,578	366,993
Generating	32,671,218	50,963	1,329,930	706,322
Hydraulic	27,901,466	...	1,204,589	455,405
Fuel	4,769,752	50,963	125,341	250,917
Revenue of non-generating stations	20,390,967	507	770,617	716,851
Revenue of generating stations	100,321,712	274,048	3,585,795	2,623,406
Revenue of hydraulic stations	91,311,004	19,671	1,617,767	1,929,622
Revenue of fuel stations	9,510,708	254,377	1,968,028	693,784
Average net revenue per H.P. of primary power	19.11	49.68	28.57	(x)
Average net revenue per H.P. in main and auxiliary plants	18.57	48.75	27.94	(x)
Average net revenue per K.V.A. of dynamo capacity....	22.96	55.70	34.21	(x)
Average net revenue per K.V.A. in main and auxiliary plants	22.30	55.70	33.53	(x)
Average net revenue per kilowatt hour consumed (cents)	0.75	5.39	1.56	0.77
Average net revenue per domestic service customer ...	26.33	32.64	25.38	27.33
Average net revenue per commercial light customer....	82.22	74.26	86.77	83.39
Average net revenue per small power customer	181.21	313.92	216.48	194.66
Average net revenue per large power customer	2,634.93	404.21	17,811.53	13,203.68
Average net revenue per kilowatt hour - domestic and farm services	2.22	8.67	5.66	5.05
Average net revenue per kilowatt hour - commercial light	2.66	8.34	5.43	3.80

(x) Affected by power purchased from another province.

TABLE 4 - REVENUE, 1932

Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon
\$	\$	\$	\$	\$	\$
44,720,404	49,952,973	6,534,141	4,478,110	4,681,024	10,082,357
8,210,401	16,170,224	2,873,481	1,302,758	1,714,412	3,348,086
5,615,201	7,568,608	1,362,823	1,186,100	1,163,378	2,226,529
2,306,544	(424,641	307,981	632,242	735,045	219,719
27,343,982	(23,770,189	1,757,385	559,528	793,487	3,829,209
1,244,276	2,019,311	232,471	297,482	274,702	458,514
43,508,546	9,649,490	3,202,076	1,600,956	2,357,836	9,486,272
321,790	1,091,994	133,160	147,335	46,609	3,523,724
43,186,756	8,557,496	3,068,916	1,453,621	2,311,227	5,962,548
43,172,185	8,550,468	3,010,234	...	1,717,470	5,838,219
14,571	7,028	58,682	1,453,621	593,757	124,329
1,211,858	40,303,483	3,332,065	2,877,154	2,323,188	596,085
220,567	12,186,095	648,831	526,398	881,166	327,294
990,991	28,117,388	2,683,234	2,350,756	1,442,022	268,791
731,604	28,065,009	2,474,326	...	29,277	210,435
259,387	52,379	208,908	2,350,756	1,412,745	58,356
542,657	13,278,089	781,991	673,733	927,775	3,851,018
44,177,747	36,674,884	5,752,150	3,804,377	3,753,249	6,231,339
43,903,789	36,615,477	5,484,560	...	1,746,747	6,048,654
273,958	59,407	267,590	3,804,377	2,006,502	182,685
15.33	(x)	14.84	33.06	(x)	17.93
15.18	(x)	13.80	33.06	(x)	16.46
17.84	(x)	18.42	38.93	(x)	23.14
17.65	(x)	17.00	38.93	(x)	21.10
0.53	0.85	0.60	3.30	2.38	0.86
21.31	27.63	39.93	40.10	29.84	26.45
75.80	85.03	83.81	84.36	71.23	95.56
198.55	133.37	114.49	219.60	190.48	122.07
31,832.34	1,722.23	764.41	6,907.75	2,601.60	1,230.24
3.43	1.77	1.06	4.99	5.75	3.04
3.23	2.09	1.54	6.36	4.32	3.26

TABLE 5 - EXPENSES, 1932

	Canada	Prince Edward Island	Nova Scotia	New Brunswick
	\$	\$	\$	\$
<u>Total Expenses</u>	74,306.251	103,352	2,455,330	1,566,355
Per cent of total for Canada	100.00	0.14	3.30	2.11
Salaries and wages	23,261,166	55,465	887,689	519,070
Fuel	1,833,515	46,981	410,067	161,721
Taxes	6,001,121	312	221,237	77,622
Cost of power	43,210,449	594	936,337	807,942
<u>Total for Commercial Stations</u>	30,349,320	87,058	1,835,908	795,981
Salaries and wages	10,217,265	47,070	567,743	285,619
Fuel	942,234	39,082	383,591	88,021
Taxes	5,484,511	312	217,949	77,147
Cost of power	13,705,310	594	666,625	345,194
Non-generating stations	5,627,165	594	487,110	495,765
Generating stations	24,722,155	86,464	1,348,798	300,216
Hydraulic stations	22,056,947	7,166	118,526	82,084
Fuel stations	2,665,208	79,298	1,230,272	218,132
<u>Total for Municipal Stations</u>	43,956,931	16,294	619,422	770,374
Salaries and wages	13,043,901	8,395	319,946	233,451
Fuel	891,281	7,899	26,476	73,700
Taxes	516,610	...	3,288	475
Cost of power	29,505,139	...	269,712	462,748
Non-generating stations	23,416,929	...	356,700	413,913
Generating stations	15,540,002	16,294	262,722	356,461
Hydraulic stations	13,373,421	...	199,849	253,720
Fuel stations	2,166,581	16,294	62,873	102,741
<u>Total Expenses for Non-generating Stations</u>	34,044,094	594	843,810	909,678
Salaries and wages	7,637,900	...	217,874	241,421
Fuel	15,649	...	2,469	1,578
Taxes	639,027	...	51,359	37,062
Cost of power	25,751,518	594	572,108	629,617
<u>Total Expenses for Generating Stations</u>	40,262,157	102,758	1,611,520	656,677
Salaries and wages	15,623,266	55,465	669,815	277,649
Fuel	1,817,566	46,981	407,598	160,143
Taxes	5,362,094	312	169,878	40,560
Cost of power	17,453,931	...	364,229	178,325
Hydraulic stations	35,430,368	7,166	318,375	335,804
Fuel stations	4,331,789	95,592	1,293,145	320,873

TABLE 5 - EXPENSES, 1932

Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon
\$	\$	\$	\$	\$	\$
14,229,502	41,314,864	3,392,729	2,724,718	2,143,929	6,375,472
19.15	55.60	4.56	3.67	2.59	8.58
4,875,614	11,390,547	1,667,848	901,873	935,897	2,027,163
25,256	11,582	80,234	855,070	192,512	50,092
3,094,915	1,294,491	212,592	133,374	168,204	798,374
6,233,717	28,618,244	1,432,055	834,401	847,316	3,499,843
13,686,380	4,817,964	1,547,853	835,325	714,831	6,028,020
4,625,974	1,460,341	549,567	337,328	441,721	1,901,902
3,014	3,754	17,845	298,042	75,318	33,567
3,083,265	1,002,198	132,142	86,121	87,003	798,374
5,974,127	2,351,671	848,299	113,834	110,789	3,294,177
225,379	1,165,756	213,706	99,721	34,296	2,904,838
13,461,002	3,652,208	1,334,147	735,604	680,535	3,123,182
13,455,146	3,648,932	1,291,772	...	386,800	3,066,221
5,555	3,276	42,375	735,604	293,735	56,961
543,122	36,496,900	1,844,876	1,889,393	1,429,098	347,452
249,840	9,930,206	1,118,281	564,545	494,176	125,261
22,242	7,828	62,389	557,028	117,194	16,525
11,650	292,293	80,450	47,253	81,201	...
259,590	26,266,573	583,756	720,567	736,527	205,666
207,756	25,137,540	367,812	815,051	865,357	252,800
335,366	11,359,360	1,477,064	1,074,342	563,741	94,652
126,053	11,344,901	1,377,893	...	7,894	63,111
209,313	14,459	99,171	1,074,342	555,847	31,541
433,135	26,303,296	581,518	914,772	899,653	3,157,638
127,239	5,521,279	215,541	110,436	206,519	997,531
...	...	10,785	...	...	817
4,416	123,673	13,651	50,430	62,205	296,231
301,480	20,658,344	341,541	753,846	630,925	1,863,059
13,796,367	15,011,568	2,811,211	1,809,946	1,244,276	3,217,834
4,748,375	5,864,268	1,452,307	791,377	729,378	1,029,632
25,256	11,582	69,449	855,070	192,512	49,275
3,090,499	1,170,213	198,941	82,944	105,999	502,143
5,932,237	7,959,900	1,090,514	80,555	216,387	1,636,784
13,581,499	14,995,333	2,669,665	...	394,694	3,129,332
214,868	17,735	141,546	1,809,946	849,582	88,502

TABLE 6 - EMPLOYEES. 1932

	Canada	Prince Edward Island	Mova Scotia	New Brunswick
<u>Total Number of Persons employed</u>	15,395	47	725	457
Per cent of total for Canada	100.00	0.31	4.71	2.97
Officers, clerks, other salaried employees, etc.	6,636	19	257	230
Employees on wages	8,759	23	468	227
<u>Total Employees in Commercial Stations</u>	7,249	39	455	257
Officers, clerks, other salaried employees, etc.	2,931	16	178	100
Employees on wages	4,318	23	277	157
Non-generating	957	...	121	120
Generating	6,292	39	334	137
Hydraulic	5,501	7	87	43
Fuel	791	32	247	94
<u>Total Employees in Municipal Stations</u>	8,146	8	270	200
Officers, clerks, other salaried employees, etc.	3,705	3	79	130
Employees on wages	4,441	5	191	70
Non-generating	4,191	...	78	90
Generating	3,955	8	192	110
Hydraulic	3,282	...	167	92
Fuel	673	8	25	18
<u>Total Employees in Non-generating Stations..</u>	5,148	...	199	210
Officers, clerks, other salaried employees, etc.	2,568	...	91	108
Employees on wages	2,580	...	108	102
<u>Total Employees in Generating Stations</u>	10,247	47	526	247
Officers, clerks, other salaried employees, etc.	4,068	19	166	122
Employees on wages	6,179	28	360	125
Hydraulic	8,783	7	254	135
Fuel	1,464	40	272	112

TABLE 6 - EMPLOYERS, 1932

Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon
3,471	6,916	1,161	627	668	1,323
22.55	44.92	7.54	4.07	4.34	8.59
1,356	3,113	514	249	304	594
2,115	3,803	647	378	364	729
3,275	1,023	386	253	337	1,224
1,276	358	169	129	167	538
1,999	665	217	124	170	686
77	32	10	15	6	576
3,198	991	376	238	331	648
3,195	988	355	...	202	624
3	3	21	238	129	24
196	5,893	775	374	331	99
80	2,755	345	120	137	56
116	3,138	430	254	194	43
38	3,565	182	58	136	44
158	2,328	593	316	195	55
96	2,320	550	...	13	44
62	8	43	316	182	11
115	3,597	192	73	142	620
45	1,778	43	37	77	389
70	1,819	149	36	65	231
3,356	3,319	969	554	526	703
1,311	1,335	471	212	227	205
2,045	1,984	498	342	299	498
3,291	3,308	905	...	215	668
65	11	64	554	311	35

TABLE 7 - NUMBER OF CUSTOMERS, 1932

	Canada	Prince Edward Island	Nova Scotia	New Brunswick
<u>Number of Customers</u>	1,657,454	5,168	57,135	42,392
Per cent of total for Canada	100.00	0.31	3.45	2.56
Domestic service	1,357,462	3,978	46,421	35,543
Commercial light	248,487	1,033	8,791	5,629
Power (small)	28,942	113	1,737	1,063
Power (large)	20,593	34	102	120
Street lighting	1,970	10	84	37
<u>Total Number of Customers of Commercial Stations</u>	776,400	4,150	38,600	21,090
Domestic service	620,843	3,269	31,285	16,801
Commercial light	130,859	760	6,160	3,539
Power (small)	18,443	79	1,042	680
Power (large)	5,063	34	59	51
Street lighting	1,192	8	54	19
Non-generating	152,167	47	17,392	13,242
Generating	624,233	4,103	21,208	7,848
Hydraulic	563,189	719	4,922	269
Fuel	61,044	3,384	16,286	7,579
<u>Total Number of Customers of Municipal Stations</u>	581,054	1,018	18,535	21,302
Domestic service	736,619	709	15,136	18,742
Commercial light	117,628	273	2,631	2,090
Power (small)	10,499	34	695	383
Power (large)	15,530	...	43	69
Street lighting	778	2	30	18
Non-generating	658,867	...	13,089	13,572
Generating	222,187	1,018	5,446	7,730
Hydraulic	155,511	...	2,574	6,646
Fuel	66,676	1,018	2,872	1,082
<u>Total Number of Customers of Non-generating Stations</u>	511,034	47	30,481	26,514
Domestic service	673,986	37	25,126	22,253
Commercial light	114,661	3	4,551	3,820
Power (small)	5,723	6	735	651
Power (large)	16,081	...	32	66
Street lighting	583	1	37	24
<u>Total Number of Customers of Generating Stations</u>	546,420	5,121	26,654	15,578
<u>Hydraulic Stations</u>	718,700	719	7,496	6,917
Domestic service	588,607	619	6,139	6,459
Commercial light	107,138	97	1,057	370
Power (small)	17,811	...	220	53
Power (large)	4,122	...	45	27
Street lighting	1,022	3	35	8
<u>Fuel Stations</u>	127,720	4,402	19,158	8,661
Domestic service	94,869	3,322	15,156	6,831
Commercial light	26,688	933	3,183	1,439
Power (small)	5,408	107	782	359
Power (large)	390	34	25	27
Street lighting	365	6	12	5
Average number of domestic service customers per 100 of population	12.92	4.52	9.05	8.69

I - Large power customers for Ontario include both large and small customers in municipalities served by Provincial Commission.

TABLE 7 - NUMBER OF CUSTOMERS, 1932

Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon
472,446 28,50	691,867 41,74	93,283 5,63	62,261 3,76	78,138 4,71	154,764 9,34
385,211 74,075	585,343 89,007	71,954 16,260	44,952 14,060	57,459 16,332	126,601 23,300
11,617 859 684	3,184 X 13,802 531	2,690 2,299 80	2,879 81 289	3,859 305 183	1,800 2,991 72
441,248	58,006	27,651	23,097	25,293	137,265
358,663 70,279	46,719 9,291	19,867 6,485	15,823 6,275	15,712 7,586	112,704 20,464
10,849 804 653	1,701 232 63	432 845 22	815 33 151	1,766 63 166	1,079 2,942 56
10,615 430,633 430,408 225	2,098 55,908 55,694 214	5,545 22,106 21,070 1,036	2,754 20,343 ... 20,343	1,206 28,087 14,238 9,849	99,268 37,997 35,869 2,128
31,198	633,861	65,632	39,164	52,845	17,499
26,548 3,796	538,624 79,716	52,087 9,775	29,129 7,785	41,747 8,746	13,897 2,816
768 55 31	1,483 X 13,570 468	2,258 1,454 58	2,064 48 138	2,093 242 27	721 49 16
11,969 19,229 14,701 4,528	555,842 78,019 77,276 743	12,171 53,461 49,899 3,562	14,530 24,634 ... 24,634	24,939 27,906 753 27,153	12,755 4,764 5,560 1,084
22,584	557,940	17,716	17,284	26,185	112,023
19,263 2,725	466,838 77,104	13,478 3,445	12,781 3,465	21,658 3,474	92,558 16,077
508 19 69	672 X 13,021 305	660 86 47	554 29 55	965 46 33	574 2,752 32
449,862 445,109 361,772 70,979	133,927 132,970 117,677 11,792	75,567 70,969 55,218 11,746	44,977	51,993 14,991 9,112 4,533	42,741 39,589 31,611 6,564
10,914 832 612	2,498 779 224	1,185 2,208 12	...	1,222 27 97	1,119 204 31
4,753 4,276 371	957 828 111	4,598 3,258 1,069	44,977 32,171 10,595	37,002 26,695 8,328	3,212 2,432 659
195 8 3	14 2 2	245 5 21	1,925 52 234	1,674 232 73	107 5 9
13.26	16.92	10.21	4.63	7.76	17.88

TABLE 8 - POLE LINE MILEAGE, 1932

	Canada	Prince Edward Island	Nova Scotia	New Brunswick
Pole Line Mileage	53,845	193	2,409	1,727
Per cent of total for Canada	100.00	0.36	4.47	3.21
For transmission	20,627	...	592	473
For distribution	33,218	193	1,817	1,254
Total Pole Line Mileage -				
Commercial Stations	25,010	175	1,462	618
Non-generating	4,221	7	545	244
Generating	20,789	168	917	374
Hydraulic	18,287	59	617	153
Fuel	2,502	109	300	221
Total Pole Line Mileage -				
Municipal Stations	28,835	18	947	1,109
Non-generating	8,949	...	343	224
Generating	19,886	18	604	885
Hydraulic	17,435	...	553	687
Fuel	2,451	18	51	198
Total Pole Line Mileage -				
Non-generating Stations	13,170	7	888	468
Total Pole Line Mileage -				
Generating Stations	40,675	186	1,521	1,259
Hydraulic	35,722	59	1,170	840
Fuel	4,953	127	351	419

TABLE 9 - AUXILIARY PLANT EQUIPMENT, 1932

Total Primary Power	H.P.	184,879	105	3,443	6,125
Per cent of total for Canada		100.00	0.06	1.86	3.31
Steam reciprocating engines	No.	44	1	7	8
Total capacity	H.P.	18,184	75	2,188	1,950
Steam turbines	No.	44	...	1	4
Total capacity	H.P.	157,871	...	670	3,600
Gas and oil engines	No.	50	1	5	3
Total capacity	H.P.	6,524	30	585	575
Total Secondary Power	K.V.A.	157,077	...	2,587	4,453
Commercial Stations					
Total Primary Power	H.P.	127,030	105	2,600	5,225
Steam reciprocating engines	No.	28	1	5	6
Total capacity	H.P.	11,055	75	1,765	1,575
Steam turbines	No.	35	...	1	4
Total capacity	H.P.	110,681	...	670	3,600
Gas and oil engines	No.	27	1	1	1
Total capacity	H.P.	5,294	30	165	50
Total Secondary Power	K.V.A.	108,845	...	1,926	3,856
Municipal Stations					
Total Primary Power	H.P.	57,849	...	843	900
Steam reciprocating engines	No.	16	...	2	2
Total capacity	H.P.	7,129	...	423	375
Steam turbines	No.	9	...	...	...
Total capacity	H.P.	47,190	...	...	...
Gas and oil engines	No.	23	...	4	2
Total capacity	H.P.	3,530	...	420	525
Total Secondary Power	K.V.A.	48,232	...	661	597

TABLE 8 - POLE LINE MILEAGE, 1932

Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon
11,137	23,346	3,274	3,441	3,765	4,553
20,68	43,36	6,08	6,39	6,99	8,46
4,889	7,007	1,793	2,340	2,241	1,292
6,248	16,339	1,481	1,101	1,584	3,861
10,706	2,238	1,152	1,582	3,006	4,041
586	133	192	648	33	1,833
10,120	2,105	990	934	2,973	2,306
10,109	2,098	919	...	2,224	2,106
11	7	71	934	749	100
431	21,108	2,092	1,859	759	512
149	6,023	1,300	180	370	360
282	15,085	792	1,679	389	152
251	15,062	735	...	16	131
31	23	57	1,679	373	21
735	6,156	1,492	828	403	2,193
10,402	17,190	1,782	2,613	3,362	2,360
10,360	17,160	1,654	...	2,340	2,279
42	30	128	2,613	1,122	181

TABLE 9 - AUXILIARY PLANT EQUIPMENT, 1932

29,573	40,321	33,091	...	22,070	50,151
16,00	21,80	17,90	...	11,94	27,13
4	8	3	...	10	3
2,750	2,600	3,206	...	4,440	975
6	6	7	...	5	15
25,500	36,500	28,840	...	16,250	46,511
4	6	11	...	7	13
1,323	1,221	1,045	...	1,380	2,665
25,797	33,649	29,363	...	19,168	42,060
29,573	7,521	12,000	...	21,130	48,876
4	2	...	...	9	1
2,750	450	...	...	3,990	450
6	2	3	...	5	14
25,500	6,300	12,000	...	16,250	46,361
4	4	...	...	4	12
1,323	771	...	...	890	2,065
25,797	6,609	11,250	...	18,390	41,017
...	32,800	21,091	...	940	1,975
...	6	3	...	1	2
...	2,150	3,206	...	450	525
...	4	4	...	...	1
...	30,200	16,840	...	...	150
...	2	11	...	3	1
...	450	1,045	...	490	600
...	27,040	18,113	...	778	1,043

TABLE 10 - TOTAL EQUIPMENT INCLUDING AUXILIARY PLANT EQUIPMENT, 1932

		Canada	Prince Edward Island	Nova Scotia	New Brunswick	
<u>Total Primary Power</u>	H.P.	6,528,533	5,632	155,901	136,970	
Per cent of total for Canada		100.00	0.09	2.39	2.10	
Water wheels and turbines	No.	808	9	55	16	
Total capacity	H.P.	6,036,259	464	81,616	105,485	
Steam reciprocating engines	No.	102	1	10	13	
Total capacity	H.P.	32,124	75	4,063	5,015	
Steam turbines	No.	111	3	18	9	
Total capacity	H.P.	424,550	4,173	69,038	25,300	
Gas and oil engines	No.	377	6	17	9	
Total capacity	H.P.	35,600	920	1,184	1,170	
<u>Total Dynamo Capacity</u>	K.V.A.	5,435,281	4,929	129,914	115,229	
Per cent of total for Canada		100.00	0.09	2.39	2.12	
DYNAMOS, A.C.	No.	1,164	15	94	40	
Total capacity	K.V.A.	5,428,016	4,921	129,524	114,101	
DYNAMOS, D.C.	No.	212	1	6	7	
Total capacity	K.W.	7,265	8	390	1,128	
<u>Commercial Stations</u>						
<u>Total Primary Power</u>	H.P.	4,704,523	4,742	85,495	114,835	
Water wheels and turbines	No.	549	9	19	10	
Total capacity	H.P.	4,426,235	464	15,106	92,650	
Steam reciprocating engines	No.	60	1	5	11	
Total capacity	H.P.	18,910	75	3,640	4,840	
Steam turbines	No.	69	3	15	7	
Total capacity	H.P.	238,309	4,173	66,380	17,300	
Gas and oil engines	No.	279	1	7	5	
Total capacity	H.P.	21,069	30	369	245	
<u>Total Dynamo Capacity</u>	K.V.A.	3,958,854	4,164	71,692	97,779	
DYNAMOS, A.C.	No.	750	10	43	26	
Total capacity	K.V.A.	3,953,596	4,156	71,302	96,651	
DYNAMOS, D.C.	No.	190	1	6	7	
Total capacity	K.W.	5,258	8	390	1,128	
<u>Municipal Stations</u>						
<u>Total Primary Power</u>	H.P.	1,524,010	890	70,406	22,135	
Water wheels and turbines	No.	259	...	36	6	
Total capacity	H.P.	1,510,024	...	66,510	12,835	
Steam reciprocating engines	No.	42	...	2	2	
Total capacity	H.P.	13,214	...	423	375	
Steam turbines	No.	42	...	3	2	
Total capacity	H.P.	156,241	...	2,658	8,000	
Gas and oil engines	No.	98	5	10	4	
Total capacity	H.P.	14,531	890	815	925	
<u>Total Dynamo Capacity</u>	K.V.A.	1,476,427	765	58,222	17,450	
DYNAMOS, A.C.	No.	414	5	51	14	
Total capacity	K.V.A.	1,474,420	765	58,222	17,450	
DYNAMOS, D.C.	No.	22	...	...	...
Total capacity	K.W.	2,007	...	...	...

TABLE 10 - TOTAL EQUIPMENT INCLUDING AUXILIARY PLANT EQUIPMENT, 1932

Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon
2,946,846 45.14	1,910,820 29.27	473,411 7.25	135,454 2.07	150,969 2.31	612,530 9.38
261	335	40	...	15	74
2,912,967	1,869,401	436,925	...	69,520	559,551
4	18	11	6	29	10
2,750	3,168	4,341	2,543	8,694	1,475
9	6	8	23	15	17
29,646	36,500	29,240	115,162	68,300	47,191
6	9	42	186	65	34
1,483	1,751	2,905	17,749	4,455	3,983
2,533,177	1,551,012	384,158	115,017	124,073	477,772
46.60	28.54	7.07	2.12	2.28	8.79
280	348	84	104	82	117
2,532,657	1,550,343	383,859	113,811	121,414	477,386
2	9	14	108	47	18
520	669	299	1,206	2,659	386
2,914,070	514,906	320,506	49,965	99,319	600,685
238	171	21	...	16	65
2,584,332	507,212	307,800	...	68,560	550,111
4	6	1	3	22	4
2,750	623	30	1,193	5,399	560
7	2	3	9	7	16
25,625	6,300	12,000	37,940	21,550	47,041
5	4	17	147	62	31
1,363	771	676	10,832	3,810	2,973
2,506,283	435,748	253,906	40,951	79,031	469,300
253	171	33	59	57	98
2,505,763	435,553	253,857	39,818	77,522	468,914
2	7	6	98	45	18
520	195	49	1,073	1,509	386
32,776	1,395,914	152,905	85,489	51,650	11,845
23	164	19	...	2	9
28,635	1,362,189	129,125	...	960	9,770
...	12	10	3	7	6
...	2,545	4,311	1,350	3,295	915
2	4	5	14	11	1
4,021	30,200	17,240	77,222	46,750	150
1	5	25	39	6	3
120	980	2,229	6,917	645	1,010
26,894	1,115,264	130,252	74,066	45,042	8,472
27	177	51	45	25	19
26,894	1,114,730	130,002	73,933	43,892	8,472
...	2	8	10	2	...
...	474	250	133	1,150	...

TABLE 11 - MAIN PLANT EQUIPMENT, 1932

	Canada	Prince Edward Island	Nova Scotia	New Brunswick
<u>Total Primary Power</u> H.P.	6,343,654	5,527	152,458	130,845
Per cent of total for Canada	100.00	0.09	2.40	2.06
Water wheels and turbines No.	808	9	55	16
Total capacity H.P.	6,036,259	464	81,616	105,485
Steam reciprocating engines No.	58	...	3	5
Total capacity H.P.	13,940	...	1,875	3,065
Steam turbines No.	67	3	17	5
Total capacity H.P.	266,679	4,173	68,368	21,700
Gas and oil engines No.	327	5	12	6
Total capacity H.P.	26,776	590	599	595
<u>Total Dynamo Capacity</u> K.V.A.	5,278,204	4,929	127,327	110,776
Per cent of total for Canada	100.00	0.09	2.41	2.10
Dynamos, A.C. No.	1,045	15	82	26
Total capacity K.V.A.	5,273,065	4,921	127,237	109,581
Dynamos, D.C. No.	203	1	5	6
Total capacity K.W.	5,139	8	90	895
<u>Commercial Stations</u>				
<u>Total Primary Power</u> H.P.	4,577,493	4,637	82,895	109,610
Per cent of total for Canada	100.00	0.10	1.81	2.40
Water wheels and turbines No.	549	9	19	10
Total capacity H.P.	4,426,235	464	15,106	92,650
Steam reciprocating engines No.	32	...	3	5
Total capacity H.P.	7,555	...	1,875	3,065
Steam turbines No.	34	3	14	3
Total capacity H.P.	127,628	4,173	65,710	13,700
Gas and oil engines No.	252	...	6	4
Total capacity H.P.	15,775	...	204	195
<u>Total Dynamo Capacity</u> K.V.A.	3,850,009	4,164	69,766	93,923
Per cent of total for Canada	100.00	0.11	1.81	2.44
Dynamos, A.C. No.	673	10	37	16
Total capacity K.V.A.	3,846,397	4,156	69,676	93,028
Dynamos, D.C. No.	184	1	5	6
Total capacity K.W.	3,612	8	90	895
<u>Municipal Stations</u>				
<u>Total Primary Power</u> H.P.	1,766,161	590	69,563	21,235
Per cent of total for Canada	100.00	0.05	3.94	1.20
Water wheels and turbines No.	259	...	36	6
Total capacity H.P.	1,610,024	...	66,510	12,835
Steam reciprocating engines No.	26	...	...	...
Total capacity H.P.	6,085	...	...	...
Steam turbines No.	33	...	3	2
Total capacity H.P.	139,051	...	2,658	8,000
Gas and oil engines No.	75	5	6	2
Total capacity H.P.	11,001	590	395	400
<u>Total Dynamo Capacity</u> K.V.A.	1,428,195	765	57,561	16,853
Per cent of total for Canada	100.00	0.05	4.03	1.18
Dynamos, A.C. No.	372	5	45	10
Total capacity K.V.A.	1,426,668	765	57,561	16,853
Dynamos, D.C. No.	19	...	...	...
Total capacity K.W.	1,527	...	...	...
<u>Hydraulic Stations</u>				
<u>Total Dynamo Capacity</u> K.V.A.	5,018,546	414	68,017	91,163
Per cent of total for Canada	100.00	0.01	1.35	1.82
Dynamos, A.C. No.	792	7	55	15
Total capacity K.V.A.	5,017,738	406	68,017	91,038
Dynamos, D.C. No.	10	1	...	1
Total capacity K.W.	808	8	...	125
<u>Fuel Stations</u>				
<u>Total Dynamo Capacity</u> K.V.A.	259,658	4,515	59,310	19,613
Per cent of total for Canada	100.00	1.74	22.84	7.55
Dynamos, A.C. No.	253	8	27	11
Total capacity K.V.A.	255,327	4,515	59,220	18,843
Dynamos, D.C. No.	193	...	5	5
Total capacity K.W.	4,331	...	90	770

TABLE 11 - MAIN PLANT EQUIPMENT, 1932

Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon
2,917,273 45.99	1,870,499 29.49	x 440,320 6.94	x 135,454 2.13	128,899 2.03	562,379 8.87
261	335	40	...	18	74
2,912,967	1,869,401	436,925	...	69,520	559,881
...	10	8	6	19	7
...	568	1,135	2,543	4,254	500
3	...	1	23	13	2
4,146	...	400	115,162	52,050	680
2	3	31	186	61	21
160	530	1,560	17,749	3,075	1,318
2,507,380 47.50	1,517,363 28.75	354,795 6.72	115,017 2.18	104,905 1.99	435,712 8.26
268	333	66	104	61	90
2,506,560	1,517,144	354,526	113,811	103,346	435,339
2	8	12	108	45	16
520	219	269	1,206	1,559	373
2,884,497 63.02	507,385 11.08	306,506 6.74	49,965 1.09	78,189 1.71	551,809 12.05
238	171	21	...	16	65
2,884,332	507,212	307,800	...	68,560	550,111
...	4	1	3	13	3
...	173	30	1,193	1,409	110
1	...	...	9	2	2
125	...	...	37,940	5,300	680
1	...	17	147	58	19
40	...	676	10,832	2,920	906
2,480,486 64.43	429,139 11.15	242,656 6.30	40,951 1.06	60,641 1.58	428,283 11.12
241	164	30	59	41	75
2,479,966	428,944	242,607	39,878	60,232	427,910
2	7	6	98	43	16
520	195	49	1,073	409	373
32,776	1,363,114	131,814	85,489	50,710	10,570
1.86	77.18	7,46	4,84	2,97	0.60
23	164	19	...	2	9
28,635	1,362,189	129,125	...	960	9,770
...	6	7	3	6	4
...	395	1,105	1,350	2,845	390
2	...	1	14	11	...
4,021	...	400	77,222	46,750	...
1	3	14	39	3	2
120	530	1,184	6,917	155	410
26,894	1,068,224	112,139	74,066	44,264	7,429
1.88	76.20	7,85	5.19	3,10	0.52
27	169	36	45	20	15
26,894	1,068,200	111,919	73,933	43,114	7,429
...	1	6	10	2	...
...	24	220	133	1,150	...
2,503,385 49.88	1,516,534 30.22	351,912 7.01	...	53,200 1.06	433,921 8.65
263	324	40	...	14	74
2,502,865	1,516,449	351,912	...	53,200	433,851
2	4	...	...	...	2
520	85	...	...	...	70
3,995	829	2,883	115,017	51,705	1,791
1.54	0.32	1.11	44.30	19.91	0.69
5	9	26	104	47	16
3,995	695	2,614	113,811	50,346	1,488
...	4	12	108	45	14
...	134	269	1,206	1,559	303

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

TABLE 12 - MAIN PLANT EQUIPMENT CLASSIFIED, 1932

	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
<u>Primary Power</u>	6,343,654	5,527	152,458	130,545	2,917,273	
Water wheels and turbines						
No.	808	9	55	16	261	
Total H.P.	6,036,259	464	81,616	105,455	2,912,967	
Under 500 H.P.	158	9	24	3	25	
Total H.P.	30,755	464	5,416	935	4,458	
500 - 2,000 H.P.	216	...	17	2	73	
Total H.P.	243,829	...	19,860	2,050	81,609	
2,000 - 5,000 H.P.	125	...	10	6	35	
Total H.P.	371,525	...	33,040	17,500	100,950	
5,000 - 10,000 H.P.	106	...	4	1	36	
Total H.P.	696,450	...	23,300	5,000	249,450	
10,000 - 15,000 H.P.	76	...	...	...	28	
Total H.P.	881,300	...	...	...	302,100	
15,000 - 25,000 H.P.	56	...	...	4	17	
Total H.P.	1,030,500	...	...	80,000	352,500	
25,000 and up	71	...	...	...	47	
Total H.P.	2,781,900	...	...	...	1,821,900	
Steam reciprocating engines						
No.	58	...	3	5	...	
Total H.P.	13,940	...	1,875	3,065	...	
Under 500 H.P.	48	...	1	2	...	
Total H.P.	5,080	...	75	165	...	
500 H.P. and up	10	...	2	3	...	
Total H.P.	8,860	...	1,800	2,900	...	
Steam turbines						
No.	67	3	17	5	3	
Total H.P.	266,679	4,173	68,368	21,700	4,146	
Under 500 H.P.	5	...	1	...	1	
Total H.P.	1,507	...	402	...	125	
500 - 2,000 H.P.	17	2	4	1	1	
Total H.P.	18,237	2,173	4,846	700	1,340	
2,000 - 5,000 H.P.	29	1	7	3	1	
Total H.P.	87,661	2,000	21,420	11,000	2,681	
5,000 - 10,000 and up	16	...	5	1	...	
Total H.P.	159,274	...	41,700	10,000	...	
Gas and oil engines						
No.	327	5	12	6	2	
Total H.P.	26,776	890	599	595	160	
<u>Secondary Power</u>						
DYNAMOS, A.C. and D.C.	1,248	16	87	32	270	
Total K.V.A.	5,278,204	4,929	127,327	110,776	2,507,380	
DYNAMOS, A.C.	1,045	15	82	26	268	
Total K.V.A.	5,273,065	4,921	127,237	109,551	2,506,560	
Under 50 K.V.A.	65	4	6	...	5	
Total K.V.A.	1,988	133	226	...	175	
50 - 200 K.V.A.	163	7	15	5	15	
Total K.V.A.	18,035	738	1,458	656	1,639	
200 - 500 K.V.A.	123	1	14	1	20	
Total K.V.A.	38,279	300	4,413	375	6,922	
500 - 1,000 K.V.A.	141	1	11	4	44	
Total K.V.A.	104,427	625	7,905	2,875	34,040	
1,000 - 5,000 K.V.A.	267	2	30	11	66	
Total K.V.A.	615,790	3,125	73,560	28,475	147,420	
5,000 - 10,000 K.V.A.	109	...	6	1	23	
Total K.V.A.	753,367	...	39,675	7,500	146,900	
10,000 - 15,000 K.V.A.	68	...	...	...	31	
Total K.V.A.	732,165	...	...	...	318,000	
15,000 - 25,000 K.V.A.	54	...	...	4	20	
Total K.V.A.	1,019,500	...	...	70,000	403,250	
25,000 and up	55	...	...	...	44	
Total K.V.A.	1,989,514	...	...	...	1,448,514	
DYNAMOS, D.C.	203	1	5	6	2	
Total K.W.	5,139	5	90	895	520	
Under 50 K.W.	190	1	4	3	1	
Total K.W.	2,219	5	40	45	20	
50 - 200 K.W.	9	...	1	2	...	
Total K.W.	620	...	50	200	...	
200 - 500 K.W.	1	...	...	...	...
Total K.W.	400	...	...	...	...
500 and up	3	...	...	1	1	
Total K.W.	1,900	...	...	650	500	

TABLE 12 - MAIN PLANT EQUIPMENT CLASSIFIED, 1932

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Yukon	Commercial	Municipal
1,870,499	440,320	135,454	128,899	562,379	4,577,493	1,766,161
335	40	...	18	74	549	259
1,869,401	436,925	...	69,520	559,861	4,426,235	1,610,024
68	1	...	10	18	106	52
14,026	125	...	1,320	3,411	18,266	12,489
115	...	...	...	9	127	89
129,040	...	...	...	11,270	140,144	103,685
56	4	...	2	12	90	35
163,035	12,500	...	8,000	36,200	271,475	100,050
29	21	...	4	11	74	32
186,100	130,000	...	23,600	79,000	500,350	196,100
35	5	...	...	8	57	19
415,700	66,000	...	...	97,500	645,100	236,200
18	3	...	2	12	38	18
289,500	60,000	...	36,000	212,500	741,000	289,500
14	6	...	...	4	57	14
672,000	168,000	...	...	120,000	2,109,900	672,000
10	8	6	19	7	32	26
568	1,135	2,543	4,254	500	7,855	6,085
10	8	4	16	7	26	22
568	1,135	693	1,944	500	2,055	3,025
...	...	2	3	...	6	4
...	...	1,850	2,310	...	5,800	3,060
...	1	23	13	2	34	33
...	400	115,162	52,050	680	127,628	139,051
...	1	1	...	1	2	3
...	400	400	...	180	305	1,202
...	...	6	2	1	9	8
...	...	6,678	2,000	500	9,471	8,766
...	...	9	8	...	15	14
...	...	26,210	24,370	...	42,886	44,775
...	...	7	3	...	8	8
...	...	81,874	25,700	...	74,966	84,308
3	31	186	61	21	252	75
530	1,860	17,749	3,075	1,318	15,775	11,001
341	78	212	106	126	857	391
1,517,363	354,795	115,017	104,905	435,712	3,850,009	1,428,195
333	66	104	61	90	673	372
1,517,144	354,526	113,811	103,346	435,339	3,846,397	1,426,668
7	10	17	9	7	41	24
198	265	516	215	160	1,255	733
32	12	38	19	20	103	60
3,888	1,104	4,468	1,843	2,241	10,883	7,152
41	5	22	11	8	60	63
12,501	1,557	6,731	3,075	2,355	18,040	20,239
65	...	1	3	5	81	54
48,140	...	4,466	2,088	4,248	64,122	40,295
99	14	13	14	18	175	92
201,765	46,350	28,750	42,375	43,950	408,253	207,537
48	11	11	2	18	62	43
354,592	70,750	25,000	11,250	97,700	451,005	302,362
23	5	2	1	6	51	17
245,040	56,000	25,000	12,500	75,625	553,565	178,600
8	9	1	0	10	45	9
154,000	178,500	18,750	30,000	165,000	846,130	172,750
10	...	...	...	1	45	10
497,000	...	...	...	44,000	1,492,514	497,000
8	12	108	45	16	184	19
219	269	1,206	1,559	373	3,612	1,527
5	10	108	43	15	175	15
69	144	1,206	409	278	1,967	252
3	2	1	7	2
150	125	95	495	125
...	1	1
...	400	400
...	1	...	2	1
...	750	...	1,150	750



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TABLE 13 - ELECTRIC ENERGY GENERATED, 1932

	Canada	Prince Edward Island	Nova Scotia	New Brunswick
ALL STATIONS				
Total kilowatt hours generated.....(thousands)	16,052,057	4,662	279,854	427,604
Per cent of total for Canada	100.00	0.03	1.74	2.66
Kilowatt hours generated by non-generating stations	1,399	...	122	3
Kilowatt hours generated by generating stations	16,050,658	4,662	279,732	427,601
K.V.A. capacity of generating stations	5,420,880	4,929	127,665	110,776
Ratio of output to maximum capacity p.c.	35.9	10.5	28.0	44.1
Average kilowatt hours per K.V.A.	2,961	946	2,191	3,560
GENERATING STATIONS				
<u>Commercial Stations</u>				
<u>Total</u>				
Kilowatt hours generated	12,335,103	3,943	118,437	389,910
K.V.A. capacity	3,953,135	4,164	69,979	93,923
Ratio of output to maximum capacity p.c.	38.0	10.5	24.0	47.4
Average kilowatt hours per K.V.A.	3,121	947	1,692	4,151
<u>Hydraulic Stations</u>				
Kilowatt hours generated	12,178,054	379	33,177	370,181
K.V.A. capacity	3,528,156	414	13,049	80,900
Ratio of output to maximum capacity p.c.	38.7	10.4	29.0	52.2
Average kilowatt hours per K.V.A.	3,181	915	2,542	4,576
<u>Fuel Stations</u>				
Kilowatt hours generated	160,049	3,564	55,260	19,729
K.V.A. capacity	124,979	3,750	56,930	13,023
Ratio of output to maximum capacity p.c.	16.4	10.8	22.5	17.3
Average kilowatt hours per K.V.A.	1,281	950	1,498	1,315
<u>Municipal Stations</u>				
<u>Total</u>				
Kilowatt hours generated	3,712,555	719	161,295	37,691
K.V.A. capacity	1,467,745	765	57,686	16,853
Ratio of output to maximum capacity p.c.	30.4	10.7	31.9	25.5
Average kilowatt hours per K.V.A.	2,529	940	2,796	2,236
<u>Hydraulic Stations</u>				
Kilowatt hours generated	3,547,895	...	158,234	20,389
K.V.A. capacity	1,333,066	...	55,306	10,263
Ratio of output to maximum capacity p.c.	32.1	...	32.7	22.7
Average kilowatt hours per K.V.A.	2,661	...	2,861	1,987
<u>Fuel Stations</u>				
Kilowatt hours generated	164,660	719	3,061	17,302
K.V.A. capacity	134,679	765	2,380	6,590
Ratio of output to maximum capacity p.c.	14.0	10.7	14.7	30.0
Average kilowatt hours per K.V.A.	1,223	940	1,286	2,625
<u>Total Hydraulic Stations</u>				
Kilowatt hours generated	15,725,949	379	191,411	390,570
K.V.A. capacity	5,161,222	414	68,355	91,163
Ratio of output to maximum capacity p.c.	37.0	10.4	32.0	48.0
Average kilowatt hours per K.V.A.	3,47	915	2,800	4,286
Kilowatt hours generated by water power(thousands)	15,723,838	351	191,311	390,570
Kw. hours generated by auxiliary plants(thousands)	2,111	28	100	...
<u>Total Fuel Stations</u>				
Kilowatt hours generated	324,709	4,283	68,321	37,031
K.V.A. capacity	259,658	4,515	59,310	19,613
Ratio of output to maximum capacity p.c.	15.1	10.8	22.1	21.6
Average kilowatt hours per K.V.A.	1,251	949	1,489	1,888
CONSUMPTION OF ELECTRIC ENERGY (Thousands of Kilowatt Hours)				
Total kilowatt hours generated	16,052,057	4,662	279,854	427,604
Kilowatt hours imported from the United States....	552	...	...	72
Kilowatt hours imported from other provinces....	...	...	...	5,221
Kilowatt hours exported to the United States	659,691	...	...	11,755
Kilowatt hours exported to other provinces .....	...	...	...	...
Kilowatt hours for consumption in Canada	15,392,918	4,662	279,854	427,604
Domestic service	1,639,498	1,498	21,213	19,230
Commercial light	767,313	920	14,045	12,364
Small power .....	...	639	14,660	5,559
Large power .....	...	614	205,171	355,687
Street lighting .....	...	224	4,118	2,882
Free service (other than street lighting)...	12,986,107	...	1,083	81
Losses .....	...	767	19,564	25,039