CANADA

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY, 1924

CENTRAL ELECTRIC STATIONS IN CANADA

(Prepared in collaboration with the Dominion Water Power and Reclamation Service, Department of the Interior, with the assistance of the Ontario Hydro-Electric Power Commission, the Quebec Streams Commission, The New Brunswick Electric Power Commission, The Nova Scotia Power Commission and The Manitoba Power Commission)

Published by authority of the Hon. J. A. Robb, M.P., Acting Minister of Trade and Commerce

OTTAWA
F. A. ACLAND
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
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PREFACE.

The annual report on the central electric station industry in Canada for 1924, compiled by authority of the Statistics Act, 1918 (8-9 George V, Chapter 43), has been prepared along the same lines as in previous years, except that additional data have been included in the tables of capital, revenues and customers, some slight abridgements have been made in a few of the less important tables, and the order of the provinces in the tables has been changed from alphabetical to geographical, from east to west.

The report was compiled and written by Mr. G. S. Wrong, B.Sc., Chief of the Transportation Branch of the Bureau and, under a co-operative arrangement with the Dominion Water Power and Reclamation Services of the Department of the Interior, was checked and edited by Mr. Alexander Roger under the direction of Mr. J. T. Johnston, the Director of that branch. Assistance was also received from the Gas and Electricity Inspection Services of the Department of Trade and Commerce and the several provincial power commissions, for which the Bureau tenders its thanks.

R. H. COATS,
Dominion Statistician.

DOMINION BUREAU OF STATISTICS,
OTTAWA, December 15, 1925.

NOTE ON CANADIAN WATER-POWERS

By the Dominion Water Power and Reclamation Service

The close interconnection of water-power with the central electric station industry is at once made evident when it is stated that over 77 per cent of the total hydraulic installation of Canada is in central electric stations, that over 94 per cent of the main plant equipment of central stations is driven by water-power and that 98 per cent of the electrical energy generated for public distribution in Canada is produced by water-power.

The administration of the water resources of the Dominion is in accordance with the terms of the British North America Act of 1867, a divided federal and provincial responsibility.

The federal authority extends over the water-powers of the provinces of Alberta, Saskatchewan and Manitoba and the Yukon and Northwest Territories, administrative control being vested in the Dominion Water Power and Reclamation Service, Department of the Interior, which also carries on investigatory work throughout the remainder of Canada in close co-operation with the various provincial authorities charged with water-power administration in their respective provinces. The federal Department of Railways and Canals is responsible for water and storage projects incidental to canalization schemes, and the Department of Public Works, being responsible for the protection of navigation throughout Canada is directly concerned with power and storage projects on all navigable bodies of water.

As the lands in the provinces of British Columbia, Ontario, Quebec, New Brunswick, Nova Scotia and Prince Edward Island were the property of the respective provinces before Confederation, administrative control of water-powers situated within these provinces is vested in the legislative assemblies, active administration being carried on in British Columbia, by the Department of Lands; in Ontario, by the Department of Lands and Forests; in Quebec, by the Department of Lands and Forests; in New Brunswick by the Department of Lands and Mines; in Nova Scotia by the Commissioner of Public Works and Mines; and in Prince Edward Island by the Commissioner of Public Works.

In Manitoba, Ontario, New Brunswick and Nova Scotia, commissions under the Government have been formed to develop or purchase power and to transmit and distribute electric energy. The greatest development in this field has been in Ontario through the Hydro-Electric Power Commission formed in 1905. In general, the commission acts as administrator for municipalities undertaking to co-operatively purchase or develop electric energy; it also acts as trustee for the provincial Government, the financing of the enterprises being backed by the Government. The Manitoba and Nova Scotia Power Commissions, formed in 1919, and the New Brunswick Electric Power Commission in 1920, have much the same functions as the Hydro-Electric Power Commision of Ontario. In the province of Quebec the Quebec Streams Commission is actively engaged in the examination of rivers and power sites and the construction of storage basins for water-power purposes.

The year 1925 witnessed the unprecedented increase in Canada's hydraulic intallation of over 718,000 horse-power all but 8,250 horse-power of which was installed for public distribution. While slightly over half of this total is due to the completion of the great Duke-Price development on the Saguenay river, on which construction commenced early in 1923, over 355,000 horse-power represents additions to existing plants or additional stations built by organizations already in the Canadian hydro-electric field.

In the province of Quebec the Southern Canada Power Company completed a 37,800 horse-power installation at Hemming Falls near Drummondville, and added two units totalling 12,000 horse-power to their existing Drummondville station, bringing its capacity to 19,500 horse-power and extended their

transmission lines to cover a considerable area not previously served with electricity. The Ottawa River Power Company completed and brought into operation a plant at Bryson, P.Q., with an initial installation of 25,000 horse-power an ultimate installation of about 60,000 horse-power being provided for. This plant will serve Ottawa and Hull and the area along the transmission line between the plant and those cities. The completion of the initial installation of 360,000 horse-power at the Duke-Price Power Company's plant at the Grand Discharge, Saguenay river, marks the beginning of the development of that mighty stream and work has already commenced on another great station which will have an initial installation of 240,000 horse-power and in which by assuming complete river regulation and providing the necessary spare equipment for continuous operation 800,000 horse-power is to be ultimately installed.

In Ontario 199,800 horse-power came into operation during the year, most of which was in various plants owned by the Hydro-Electric Power Commission. Additions of 110,000 horse-power and 25,000 horse-power respectively were made to the equipment of the Chippawa-Queenston and Nipigon stations. The South Falls, Muskoka River station, was remodelled and its capacity increased from 1,750 horse-power to 5,500 horse-power, while 1,800 horse-power was installed in a new development at Hanna Chutes, one mile upstream. On the Central Ontario System a new development at Dam 9 on the Trent canal was completed with 4,800 horse-power automatically controlled from the Ranneys Falls station, three miles distant. Additional power for the pulp and paper and mining industries in the northern part of the provinces is provided through the doubling of the Island Falls plant of the Abitibi Electrical Development Company, by the installation of 24,000 horse-power; the addition of 6,000 horse-power to the Twin Falls plant of the Abitibi Power and Paper Company, and the completion of a new plant of 7,000 horse-power by the Wahnapitae Power Company.

In British Columbia the raising of the level of Stave Lake dams, the addition of a new unit and the rewinding of others increased the installation of the British Columbia Electric Railway Company's Stave Falls station by 23,000 horse-power to a total of 75,000 horse-power. The Lower Bonnington Falls station of the West Kootenay Power and Light Company was completely demolished and replaced by one of 40,000 horse-power.

In Manitoba the city of Winnipeg installed three new units of 7,300 horse-power each in its Winnipeg River station and completed a steam standby plant of 11,000 K.W. capacity as protection against interruptions in hydro-electric supply.

The Dominion Water Power and Reclamation Service, in co-operation with the various responsible provincial bodies, has effected a co-ordinated system of water-power analysis for the purpose of presenting the water-power resources of the Dominion upon a reliable and uniform basis. As a result of a careful reanalysis and computation by the Service, the total available and developed water-power resources of Canada are presented as follows:—

Province	Available 24-hour power at 80 p.c. eff.		Turbine Installation h.p.
	At ordinary minimum flow h.p.	At ordinary 6 months flow h.p.	
1	2	3	4
British Columbia	1,931,142	5,103,460	414,702
Alberta	475,281	1,137,505	34,107
Saskatchewan	513,481	1,087,756	35
Manitoba	3,270,491	5,769,444	183,925
Ontario	4,950,300	6,808,190	1,784,842
Quebec	6,945,244	11,640,052	1,747,386
New Brunswick	50,406	120,807	41,631
Nova Scotia	20,751	128,264	65,327
Prince Edward Island	3,000	5,270	2,274
Yukon and Northwest Territories	125,220	275,250	13,199
	18,255,316	32,075,998	4,290,428

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 are not as yet recorded. The ratio of actual plant installation to theoretical power available indicates that the water-power resources of the Dominion as at present recorded will permit of a turbine installation of 42,000,000 horse-power.

The above tabulated figures may be considered as representing the minimum water-power possibilities of the Dominion. As an example, the detailed analyses which have been made of the water-power resources of New Brunswick and Nova Scotia indicate that by taking full advantage of reservoir facilities these two provinces possess, at the least, 200,000 and 300,000 commercial horse-power within their respective borders.

With a water-power development of 464 horse-power per 1,000 population, Canada stands well to the fore in respect to availability and utilzation of hydro-power resources. The enormous water-power reserves still untouched form a substantial foundation for the progressive exploitation and development of other natural resources, especially if properly co-ordinated with the development and utilization of the well-known fuel resources of the Dominion.

OTTAWA, January 1, 1926.

CENSUS OF CENTRAL ELECTRIC STATION INDUSTRY, 1924

The central electric station industry during 1924 continued to show a healthy growth. The number of power plants remained the same as in 1923 but by additions to existing plants and larger stations starting operation, the few stations that ceased to operate being small ones, the capacity of the industry as a whole was increased by 425,605 horse-power in main plant equipment and 18,530 horse-power in auxiliary plant equipment, or a total of 444,135 horse-power. Extensions to transmission and distribution lines were made in every province, the number of municipalities served increased from 1,146 in 1923 to 1,219 and the number of customers increased by 88,403, or 8 per cent. The output also showed the substantial increase over that of 1923 of 15 per cent, or 1,216,085,000 kilowatt hours.

Some of the larger additions to primary power equipment made during the year were 120,000 horse-power by the St. Maurice Power Company, 22,600 horse-power by the Montreal Light, Heat and Power Company, 20,000 horse-power by Quinze Power Company in Quebec, 136,000 horse-power in the Niagara plants, 6,600 horse-power in the Central Ontario System, and 25,000 horse-power in the Cameron Falls plant of the Ontario Hydro-Electric Power Commission and 12,500 horse-power by the Canadian Niagara Power Company in Ontario. In Manitoba the Manitoba Power Company put into operation 56,000 horse-power and in British Columbia the East Kootenay Power Company at Fernie added 15,000 horse-power to their plant.

The electric energy exported to the United States during 1924 was less than in 1923 by 41,882,589 kilowatt hours and although the output of the companies exporting shows an increase, it was made up largely by the increase of the Hydro-Electric Power Commission of Ontario. In 1923 only the output of the plants of the Ontario Power Company and of the Toronto Power Company was shown, whereas in 1924 the entire output of the Commission's plants on the Niagara river was shown including the output of the Queenston plant. The following table shows the quantities exported and generated by each company exporting during 1924.

KILOWATT HOURS EXPORTED TO UNITED STATES, CALENDAR YEAR, 1924

—	Exported	Total Generated
	k.w. hours	k.w. hours
Maine & N.B. Electric Power Co.	9,191,026	10,417,596
Sherbrooke Railway and Power Co.	800	8,822,000
Cedar Rapids Manufacturing and Power Co.	425,979,000	756,785,000
Hydro-Electric Commission of Ontario	495,054,700	2,314,191,120
Canadian Niagara Power Co.	316,071,356	536,419,000
Ontario and Minnesota Power Co.	12,187,300	26,000,947
Western Canada Power Co.	42,638,330	160,570,150
West Kootenay Power and Light Co.	572,800	195,821,300
British Columbia Electric Railway Co.	621,366	138,886,200
Total	1,302,316,678	4,147,913,313

Table 1—Comparative Summary: The number of power plants has increased only 5 per cent in the four years 1920 to 1924 but the capital invested has increased 40 per cent and the output 58 per cent. The capital of municipal stations increased 120·3 per cent in the four years, the largest factor being the developments and extensions of the provincial commissions, especially that of the Ontario Hydro Electric Power Commission, which, during this period, completed the large Queenston station with its power canal from Chippawa. Other large developments completed were the Nipigon and High Falls plants and the Commission also acquired the entire plant of the Toronto Power

Company which involved a transfer of capital from the commercial to the municipal group; the relatively small increase of 4·9 per cent in the capital of commercial stations was also affected by this transfer.

Steam engines and turbines as a source of primary power for this industry are losing ground and with further improvements in long distance transmission, more and more steam plants are likely to be driven out of the field by hydro-electric energy. The loss was all in the reciprocating engines, the steam turbines showing a gain in horse-power of 12·2 per cent. Internal combustion engines also showed an increase of one-third of their capacity in 1920. These engines are practically all small units located in districts devoid of water-power developments and their increase is an indication of the improvements in the internal combustion engine and the desire of the people to have electric light in preference to the coal oil lamp. Practically all of the direct current dynamos are operated in conjunction with these internal combustion engines and in power plants of electric railways which also sell electricity for lighting and general power purposes. The expenses shown in this and following tables include only wages, cost of fuel and cost of power purchased by distributing stations; these data for each of the years 1920 to 1923 inclusive have been recompiled, putting them on the same basis as the 1924 data.

Table 2—Summary of Principal Data, 1924-1923: The capital invested in municipal stations was 48 per cent of the total in 1924 as against only 30 per cent in 1920 and the output was 35 per cent of the total in 1924 and 24 per cent in 1920. The greater increase in capital invested in municipal stations than in output is slightly affected by the investments of municipalities buying power from commercial generating stations, but the important factor is the more retail nature of the business of municipal stations as compared with that of the commercial stations; table 4 shows that the capital of transmission and distribution lines of municipal stations was 40 per cent of the total whereas with commercial stations it was only 29 per cent. While the investments, revenues and output of commercial stations show increases each year these items of municipal stations have increased much more rapidly. The increase in the industry during 1924 was 8 per cent in capital and in number of customers, 10 per cent in net revenues and 15 per cent in output and in the horse-power of main plant equipment. The water-wheels and turbines of commercial stations were increased by 253,460 horse-power and of municipal stations by 171,950 horse-power; the additions to steam, gas and oil engines were relatively small.

Table 3—Electric Power Plants: For census purposes a central electric station is defined as a municipality, company or other organization selling electricity. This table does not add unlike stations but shows the number of power plants and the number of organizations generating and buying electricity for resale. Where two or more power plants are owned by one company or organization each plant is counted and the provincial commissions are each counted as one municipal organization. Over 80 per cent of the municipalities buying power for redistribution are in Ontario and practically all of these buy from the provincial commission.

The populations of the municipalities served are only approximate as official figures were not available; also they do not include the rural residents using electricity who were living outside the limits of cities, towns and incorporated villages or residents of unincorporated villages with the exceptions of those in South Vancouver and Point Grey in British Columbia.

Table 4—Capital: The division of capital between generation, transmission, distribution and general, the last including office buildings, cash and trading accounts, supplies, etc., has been made as best possible but in many cases the division was only approximate. On the whole these figures represent investments although some stations have reported appraised values and some have deducted depreciation.

The averages at the foot of the table of total capital are the total capital divided by horse-power and K.V.A. capacity of equipment in main plant and in main and auxiliary plant. There are also shown the average capital per horse-power invested in the power-houses only, the average capital per mile invested in transmission lines and invested in distribution lines. The differences in the unit costs of transmission lines are quite marked. The long lines composed of steel towers and carrying several high tension cables and lines through thickly settled country where right of way must be purchased or leased and fenced are much more costly than wooden pole lines through unsettled country and the unit costs indicate in a rough way these differences in the transmission lines in the several provinces.

Table 5—Revenue: Gross revenues include the income from electric energy sold to other central electric stations and net revenue is the gross revenue less this cost of power purchased or is the total amount paid by the consumers. The revenue from power sold to other stations is included in the gross revenue under "For all other purposes" and the revenue from lighting is a net figure.

Since the output is measured at the generating station the averages of net revenue per kilowatt hour include all line and transformer losses. It would be very interesting to compare average revenue per unit of current for lighting and for power but the consumption is not segregated between lighting and power and consequently these data cannot be computed. The average revenue per kilowatt hour of all stations includes revenue for all electric energy sold and is affected by the relative amounts sold for power and for light, by the nature of the primary power, by the average load factor, etc., and these factors should be considered when making comparisons.

The value of electricity furnished to municipalities for street lighting, etc., without any direct payment being received which in previous reports was shown as "Free Service" has been included with revenues. Practically all of such free service was furnished by municipal stations, which should be credited with the revenue based on a fair value.

Table 6—Expenses: This table includes only salaries and wages, cost of fuel and cost of power exchanged between stations. These expenses are not the total operating expenses and do not indicate whether or not the various groups of stations operated at a profit.

Table 7—Employees: The number of employees showed an increase over 1923 of 17 per cent, the greatest rate of increase being in the Manitoba stations where the number jumped from 618 in 1923 to 959 in 1924, or an increase of 55 per cent, the opening of a large station being a factor. In Ontario stations the increase was 994 or 18 per cent and in Quebec stations, 338, or 14 per cent. These data contain some part time employees but are compiled on the same basis each year and are comparable.

Table 8—Customers: The number of customers increased 88,403 during the year, the domestic light customers increasing 68,257, or 7·4 per cent, commercial light customers increasing 16,515, or 10·3 per cent, and power customers increasing 3,631, or 11·2 per cent. The largest provincial increase was in Ontario, where 33,195 new customers were added; in Quebec the increase was 24,671 and in Manitoba, 16,760.

The average number of domestic light customers per 100 population is computed by using the entire estimated population of each province.

Table 9—Pole Line Mileage: Distribution pole line mileage is credited with all pole lines between generating stations and consumers where power is not stepped up for transmission and is transmitted at the generated voltage and it also includes all pole lines carrying primary and secondary circuits. Transmission pole line mileage includes all lines between power-houses and receiving stations or substations where the power is stepped up at the generating station and stepped down at the substation.

The increase in total pole line mileage during the year was 3,094 miles, or 13 per cent, the Ontario stations leading with an increase of 1,955 miles, or 18 per cent, and Quebec stations second with an increase of 712 miles, or 15 per cent.

Tables 10-11-12-13—Equipment: Auxiliary plant equipment includes the steam and internal combustion engines in water-power plants and the dynamos driven by them and main plant equipment includes all water-wheels and turbines and dynamos driven by them and all engines and dynamos in fuel stations or stations using coal, gas, oil or other fuel in the primary power equipment. There are also a few stations buying practically all of their electricity but have equipment in reserve which is also included in auxiliary plant equipment. This is the only practical method of dividing the equipment, although it is not exact on account of some steam or oil engines in hydro-electric stations being operated more or less continuously and not held in reserve. There are also some fuel plants which have units held in reserve to meet emergencies which by the above method are included in main plant equipment. In pulp and paper mills, saw-mills, power-houses of electric railways, etc., which also sell electric energy, only those units used in generating current for sale are included.

Table 14—Electric Energy Generated: The total output of all stations was 15 per cent greater in 1924 than in 1923. Commercial stations increased their output 19 per cent, or 950,276,000 kilowatt hours, the Quebec stations accounting for 897,638,000 kilowatt hours of this increase and the increase in the output of municipal stations was 9 per cent, or 263,919,000 kilowatt hours. The small amount shown as output of non-generating stations was generated by the reserve equipment in a few stations which buy practically all the power they sell. Included in this is the output of the municipal station at Windsor, Ont., which bought from the provincial commission and also generated power. The ratios of output to maximum capacity are the total outputs divided by the product of the capacity and the number of hours in the year, viz., 8,784 hours in 1924, units which were installed during the year being charged only with the time in operation, or in other words, the average capacity for the year was used and not the capacity at the end of the year. Similarly the average output per K.V.A. capacity is the total output divided by the average capacity for the year. This is a more accurate method than using the total capacity at the end of the year and raises the average where large units are installed toward the close of the year.

The range of utility of equipment or ratio of output to maximum capacity was great, running from 3 per cent for hydro-electric stations in Prince Edward Island and 7·6 per cent for municipal fuel stations in Alberta to 58·4 for commercial hydro-electric stations in Quebec. This last is the highest ratio of this nature so far recorded and is only possible with large stations having a great variety of customers.

Table 15—Fuel: This table includes all fuel consumed in fuel stations and by auxiliary equipment of hydraulic stations. It does not include the cost of steam purchased by the municipal station in Windsor mentioned under table 14 which is classified as a non-generating station although its output was over six million kilowatt hours for the year.

Where data in tables of capital, revenue and expenses, pertain to less than three stations asterisks have been inserted.

Table 1—Comparative Summary, 1924-1920=Tableau 1—Résumé comparatif, 1924-1920

Principal Data by Class of Station — Données principales par classes d'usines		1924	1923	1922	1921	1920	Per cent increase 1924 over 1920 — Pourcentage d'augmentation de 1924 sur 1920
Electric Power Plants—	**Usines génératrices—**						
Total	**Total**	**532**	**532**	**522**	**510**	**506**	**5·1**
Hydraulic	Hydrauliques	273	269	269	259	258	5·8
Fuel	À combustible	250	263	253	251	248	4·4
Commercial	Commerciales	333	335	326	317	321	3·7
Municipal	Municipal	199	197	196	193	185	7·6
Capital—	**Capitaux—**						
Total	**Total**	**628,565,093**	**581,780,611**	**568,068,752**	**484,669,451**	**448,273,642**	**40·2**
Commercial	Commerciales	326,554,580	307,046,240	326,448,922	327,439,827	311,160,342	4·9
Municipal	Municipales	302,010,513	274,734,371	241,619,830	157,229,624	137,113,300	120·3
Generating	Productrices	532,016,164	489,085,939	484,635,750	410,382,619	380,372,831	39·9
Non-generating	Non productrices	96,548,929	92,694,672	83,433,002	74,286,832	67,900,811	42·2
Revenue—	**Recettes—**						
Total	**Total**	**95,169,768**	**91,141,296**	**82,328,866**	**73,376,580**	**65,705,060**	**44·8**
Commercial	Commerciales	47,529,216	44,539,934	44,776,945	42,713,327	39,904,747	19·1
Municipal	Municipales	47,640,552	46,601,642	37,551,921	30,663,253	25,800,313	84·7
Generating	Productrices	65,602,441	62,301,186	56,385,731	52,446,929	48,042,642	36·6
Non-generating	Non productrices	29,567,327	28,837,110	25,943,135	20,930,651	17,662,418	67·4
†Expenses—	**Dépenses—**						
Total	**Total**	**40,887,779**	**41,067,329**	**37,327,493**	**33,364,566**	**30,085,903**	**35·9**
Commercial	Commerciales	16,777,557	15,319,394	14,704,651	14,175,563	13,815,274	21·4
Municipal	Municipales	24,110,222	25,747,935	22,622,842	19,189,003	16,270,629	48·2
Generating	Productrices	20,198,257	20,992,105	19,304,835	18,078,155	16,645,033	21·3
Non-generating	Non productrices	20,689,522	20,075,224	18,022,658	15,286,411	13,440,870	53·9
Pole Line Mileage—	**Lignes sur poteaux—**						
Total	**Total**	**26,654**	**23,560**	**22,669**	**21,714**	**20,879**	**27·7**
Commercial	Commerciales	12,402	11,146	11,123	10,987	10,721	12·0
Municipal	Municipales	14,552	12,414	11,546	10,727	10,158	43·3
Generating	Productrices	17,340	14,405	13,927	13,460	13,651	27·0
Non-generating	Non productrices	9,314	9,155	8,742	8,254	7,228	28·9
Customers—	**Abonnés—**						
Total	**Total**	**1,200,950**	**1,112,547**	**1,053,545**	**973,212**	**894,158**	**34·3**
Domestic light	Eclairage domestique	988,480	920,223	889,346	830,062	764,907	29·2
Commercial light	Eclairage commercial	176,444	159,929	164,199	143,150	129,251	64·4
Power	Force motrice	36,026	32,395	–	–	–	–
Commercial stations	Commerciales	521,064	496,591	476,285	466,235	437,672	19·1
Municipal stations	Municipales	679,886	615,956	577,260	506,977	456,486	48·9
Generating	Productrices	610,206	547,928	533,923	531,643	504,026	21·1
Non-generating	Non productrices	590,744	564,619	519,622	441,569	390,132	51·4
Electric Energy Generated—	**Energie Électrique produite—**						
Total kilowatt hours (thousands)	**K.W. heures produit (milles)**	***9,315,277**	***8,099,192**	***6,740,750**	**5,614,132**	**5,894,867**	**58·0**
Commercial	Commerciales	6,024,312	5,074,120	5,119,676	4,316,272	4,456,428	35·2
Municipal	Municipales	3,290,965	3,025,072	1,621,074	1,297,860	1,438,439	128·8
Equipment in generating stations (main plant only).							
Machinerie dans les usines productrices (Machines des usines principales).							
Total primary power	**H.P.**	**2,849,450**	**2,423,845**	**2,258,398**	**1,977,857**	**1,897,024**	**50·2**
Total pour motrice primaire							
Water wheels and turbines	No.	667	641	620	604	594	12·3
Turbines et roues hydrauliques	H.P.	2,707,957	2,282,547	2,112,289	1,826,357	1,754,130	54·4
Steam reciprocating engines	No.	147	159	175	187	196	−25·0
Machines à vapeur	H.P.	33,876	37,116	40,184	45,450	49,430	−31·5
Steam turbines	No.	40	38	41	43	37	8·1
Turbines à vapeur	H.P.	90,617	87,767	89,545	90,705	80,750	12·2
Internal combustion engines	No.	271	262	225	203	179	51·4
Moteurs à gaz et à pétrole	H.P.	17,000	16,415	16,080	15,345	12,714	33·7
Total in commercial stations	H.P.	1,701,393	1,451,498	1,565,229	1,443,533	1,415,488	20·2
Total dans les usines commerciales							
Total in municipal stations	H.P.	1,147,657	972,347	693,169	534,324	481,536	138·3
Total dans les usines municipales							
Total secondary power	**K.V.A.**	**2,282,046**	**1,862,195**	**1,736,199**	**1,475,610**	**1,451,829**	**57·2**
Total force motrice secondaire							
Dynamos A.C.	No.	881	863	857	841	817	7·8
Dynamos C.A.	K.V.A.	2,273,461	1,852,740	1,725,831	1,464,022	1,439,937	57·9
Dynamos D.C.	No.	206	208	181	172	165	24·8
Dynamos C.D.	K.W.	8,585	9,449	10,368	11,588	11,892	−27·8
Total in commercial stations	K.V.A.	1,400,871	1,140,945	1,210,947	1,086,128	1,078,611	29·9
Total dans les usines commerciales							
Total in municipal stations	K.V.A.	880,575	720,900	525,252	389,482	373,218	135·9
Total dans les usines municipales							

†Includes only—Wages, cost of fuel and cost of power

†Comprend seulement les appointements et salaires, le coût du combustible et de la force motrice.

*Includes estimates for stations not reporting output.

*Comprend l'estimation des stations qui ne font pas connaître leur production.

Table 2—Summary of Principal Data 1924-1923

—	Total		Commercial — Commerciales		Municipal — Municipales	
	1924	1923	1924	1923	1924	1923
	1	2	3	4	5	6
Total Number of Electric Power Plants	**532**	**532**	**333**	**335**	**199**	**197**
No. of hydraulic plants	273	269	195	194	78	75
No. of fuel plants	259	263	138	141	121	122
Total Capital	**628,565,093**	**581,780,611**	**326,554,580**	**307,046,240**	**302,010,513**	**274,734,371**
Lands, buildings, equipment, etc.	580,769,137	521,253,598	306,556,636	271,776,655	274,212,501	249,476,943
Materials on hand, cash trading accounts, etc.	47,795,956	60,527,013	19,997,944	35,269,585	27,798,012	25,257,428
Total Gross Revenue from Sale of Electric Energy.	**95,169,768**	**91,141,296**	**47,529,216**	**44,539,654**	**47,640,552**	**46,601,642**
For lighting purposes	36,011,117	33,187,276	15,463,296	14,714,521	20,547,821	18,472,755
For all other purposes	59,158,651	57,954,020	32,065,920	29,825,133	27,092,731	28,128,887
Net revenue	74,616,863	67,496,893	39,033,665	37,040,835	35,583,198	30,456,058
Operating Expenses	**40,887,779**	**41,067,329**	**16,777,557**	**15,319,394**	**24,110,222**	**25,747,935**
Salaries and wages	17,946,584	14,784,038	7,296,133	6,500,590	10,650,451	8,283,448
Fuel	2,388,290	2,638,888	985,873	1,319,985	1,402,417	1,318,903
Cost of power	20,552,905	23,644,403	8,495,551	7,498,819	12,057,354	16,145 584
Total Number of Employees	**12,956**	**11,094**	**5,849**	**5,049**	**7,107**	**6,045**
Total Mileage of Pole Lines	**26,654**	**23,560**	**12,102**	**11,146**	**14,552**	**12,414**
For transmission	9,147	8,406	4,809	4,361	4,338	4,045
For distribution	17,507	15,154	7,293	6,785	10,214	8,369
Total Number of Customers	**1,200,950**	**1,112,889**	**521,064**	**496,591**	**679,886**	**616,298**
Domestic light	988,480	920,487	422,464	409,337	566,016	511,150
Commercial light	176,444	160,007	81,700	72,229	94,744	87,778
Power	36,026	32,395	16,900	15,025	19,126	17,370
Total K.W. hrs. generated (thousands)	**9,315,277**	**8,099,192**	**6,024,312**	**5,074,120**	**3,290,965**	**3,025,072**

Total Power Equipment (excluding Auxiliary Plant Equipment)

	Total		Commercial — Commerciales		Municiapl — Municipales	
	1924	1923	1924	1923	1924	1923
	1	2	3	4	5	6
Total Primary Power **H.P.**	**2,949,450**	**2,423,845**	**1,701,793**	**1,451,498**	**1,147,657**	**972,347**
Water wheels and turbines No.	667	641	482	470	185	171
H.P.	2,707,957	2,282,547	1,673,298	1,419,838	1,034,659	862,709
Steam reciprocating engines No.	147	159	67	76	80	83
H.P.	33,876	37,116	13,463	16,668	20,413	20,448
Steam turbines No.	40	38	12	12	28	26
H.P.	90,617	87,767	10,259	10,259	80,358	77,508
Gas and oil engines No.	271	262	154	150	117	112
H.P.	17,000	16,415	4,773	4,733	12,227	11,682
Total Secondary Power **K.V.A.**	**2,282,046**	**1,861,845**	**1,401,471**	**1,140,945**	**880,575**	**720,900**
Dynamos, A.C. No.	881	860	520	512	361	348
K.V.A.	2,273,461	1,852,396	1,396,205	1,134,744	877,256	717,652
Dynamos, D.C. No.	206	208	161	165	45	43
K.W.	8,585	9,449	5,266	6,201	3,319	3,248

Tableau 2—Résumé comparatif des donnés principales, 1924-1923

Generating — Productrices		Non-Generating — Non-productrices		Per Cent of Column 1 — Pour cent de la 1ère col.				
1924	1923	1924	1923	Commerciales 1924	Municipales 1924	Generat. Prod. 1924	Non Gen. Non-prod. 1924	
7	8	9	10	11	12	13	14	
532	**532**	–	–	**62·59**	**37·41**	**100·00**	–	**Nombre d'usines génératrices.**
273	267	–	–	71·43	28·57	100·00	–	Nombre d'usines hydrauliques.
259	263	–	–	53·28	46·72	100·00	–	Nombre d'usines à combustible.
532,016,164	**489,085,939**	**96,548,929**	**92,694,672**	**51·95**	**48·05**	**84·64**	**15·36**	**Total des capitaux.**
506,312,147	452,146,668	74,456,900	69,106,930	52·78	47·22	87·18	12·82	Terrains, bâtiments, aménagements, etc.
25,704,017	36,939,271	22,091,939	23,587,742	43·83	56·17	56·14	43·86	Matières premières en stock, fonds en caisse, créances à recouvrer, etc.
65,602,441	**64,780,162**	**29,567,327**	**26,361,134**	**49·94**	**50·06**	**68·93**	**31·07**	**Total des rec. prod. par l'élect., vendue.**
18,711,610	26,748,806	17,299,507	6,438,470	42·94	57·06	51·96	48·04	Pour éclairage.
46,890,831	38,031,356	12,267,820	19,922,664	54·20	45·80	79·26	20·74	Pour tout autres usages.
59,861,915	52,681,003	14,754,948	14,815,890	52·31	47·69	80·23	19·77	Revenue net.
20,198,257	**20,992,105**	**20,689,522**	**20,076,224**	**41·03**	**58·97**	**49·40**	**50·60**	**Dépenses d'exploitation**
12,079,462	8,746,298	5,867,122	6,037,740	40·65	59·35	67·31	32·69	Traitements, appoint. et salaires
2,378,269	2,622,624	10,021	17,264	41·28	58·72	99·58	00·42	Combustible
5,740,526	9,623,183	14,812,379	14,021,220	41·33	58·67	27·93	72·07	Achat de force motrice électrique
8,630	**6,545**	**4,326**	**4,548**	**45·15**	**54·85**	**66·61**	**33·39**	**Nombre total du personnel**
17,340	**14,405**	**9,314**	**9,155**	**45·40**	**54·60**	**65·06**	**34·94**	**Long en milles des lignes sur poteaux**
8,317	7,364	830	1,042	52·57	47·43	90·93	9·07	De transmission
9,023	7,041	8,484	8,113	41·66	58·34	51·54	48·46	De distribution
610,206	**547,928**	**590,744**	**564,961**	**43·39**	**56·61**	**50·81**	**49·19**	**Nombre total des abonnés des usines**
502,750	456,969	485,730	463,518	42·74	57·26	50·86	49·14	Eclairage, commerçants
87,659	75,337	88,785	84,670	46·30	53·70	49·68	50·32	Eclairage, particuliers
19,797	15,622	16,229	16,773	46·91	53·09	54·95	45·05	Force motrice
9,308,366	**8,094,171**	**6,911**	**5,621**	**64·67**	**35·33**	**99·93**	**0·07**	**Total des kilowatt-heures produits (milliers)**

État de la machinerie (à l'exclusion de celles des usines auxiliaires)								Total Power Equipment in Auxiliary Plants — Machines des usines auxiliaires		
Per Cent of Cols. 1 & 2 — Pourcent des col. 1 et 2				Per Cent of Totals of Columns 3, 4, 5 & 6 Pourcent des col. 3, 4, 5 et 6						
Commercial		Municipal		Commercial		Municipal				
1924	1923	1924	1923	1924	1923	1924	1923	1924	1923	
7	8	9	10	11	12	13	14	15	16	
59·7	**59·9**	**40·3**	**40·1**	**100·0**	**100·0**	**100·0**	**100·0**	**168,102**	**149,572**	**Total force motrice primaire, H.P.**
72·3	73·3	27·7	26·7	–	–	–	–	–	–	Turbines, et roues hydrauliques nomb.
61·8	62·2	38·2	37·8	98·3	97·8	90·1	88·7	–	–	H.P.
45·6	47·8	54·4	52·2	–	–	–	–	49	44	Machines à vapeur.....nomb.
39·7	44·9	60·3	55·1	00·8	01·1	1·8	2·1	22,911	19,686	H.P.
30·0	31·6	70·0	68·4	–	–	–	–	34	31	Turbines à vapeur.....nomb.
11·3	11·7	88·7	88·3	00·6	00·8	7·0	8·0	143,950	129,110	H.P.
56·8	57·3	43·2	42·7	–	–	–	–	11	7	Moteurs à gaz et à pétrole.....nomb.
28·1	28·8	71·9	71·2	00·3	00·3	1·1	1·2	1,241	776	H.P.
61·4	**61·3**	**38·6**	**38·7**	**100·0**	**100·0**	**100·0**	**100·0**	**135,755**	**121,832**	**Total force motrice secondaire K.V.A.**
59·0	59·5	41·0	40·5	–	–	–	–	78	68	Dynamos, C.A.....nomb.
61·4	61·3	38·6	38·7	99·6	99·5	99·6	99·5	134,830	120,152	K.V.A.
78·2	79·3	21·8	20·7	–	–	–	–	6	5	Dynamos, C.D.....nomb
61·3	65·6	38·7	34·4	0·4	0·5	0·4	0·5	1,925	1,680	K.W.

Table 3—Electric Power Plants—Municipalities served 1924

—	Canada	Prince Edward Is. — Ile du Prince Edouard	Nova Scotia — Nouvelle-Ecosse	New Brunswick — Nouveau-Brunswick	Quebec	Ontario
Total Number of Power Generating Stations	**532**	**10**	**36**	**22**	**102**	**120**
Per cent of total for Canada	100·00	1·88	6·77	4·13	19·17	22·56
Commercial	333	8	20	14	83	74
Hydraulic	195	7	9	5	78	68
Fuel	138	1	11	9	5	6
Municipal	199	2	16	8	19	46
Hydraulic	78	–	10	3	15	39
Fuel	121	2	6	5	4	7
With water wheels and turbines only	236	5	16	7	83	97
With water wheels, turbines and fuel auxiliary	37	2	3	1	10	10
With steam engines only	79	–	9	6	4	7
With steam turbines only	8	–	3	1	1	–
With gas or oil engines only	153	1	2	5	4	6
With both steam engines and turbines	10	–	2	1	–	–
With both steam and gas or oil engines	8	2	1	1	–	–
With both steam turbines and gas or oil engines	1	–	–	–	–	–
With alternating current dynamos only	397	9	32	17	93	104
With direct current dynamos only	128	1	3	4	7	15
With both alternating and direct current dynamos	7	–	1	1	2	1
Commercial Organizations	**386**	**9**	**35**	**23**	**93**	**79**
Number generating power	306	8	19	14	68	65
Number buying power for redistribution	80	1	16	9	25	11
Municipalities	**510**	**2**	**23**	**14**	**40**	**300**
Number generating power	171	2	15	8	16	24
Number buying power for redistribution	339	–	8	6	24	276
Cities, Towns and Villages served						
No.	1,219	15	82	46	346	410
Population	4,772,655	23,955	264,998	167,906	1,397,999	1,828,088
Ration of total population (per cent)	52·00	27·00	50·00	42·00	56·00	60·00
By Commercial organizations—						
No.	674	13	47	28	297	105
Population	2,082,133	19,633	123,035	64,369	1,223,596	191,975
By municipal systems—						
No.	533	2	35	16	49	298
Population	2,041,752	4,322	141,963	34,787	174,403	1,325,286
By both—						
No.	12	–	–	2	–	7
Population	648,770	–	–	68,750	–	310,827
By hydraulic stations—						
No.	900	11	41	22	334	395
Population	3,995,743	5,943	105,624	58,396	1,343,496	1,811,288
By fuel stations—						
No.	317	4	41	23	12	15
Population	638,362	18,012	159,374	40,960	54,503	16,800
By both hydro and fuel—						
No.	2	–	–	1	–	–
Population	138,550	–	–	68,550	–	–

Tableau 3—Usines génératrices—Municipalités desservies, 1924

Manitoba	Saskatchewan	Alberta	British Columbia — Colombie Britannique	Yukon	—
26	**113**	**60**	**41**	**2**	**Nombre d'usines génératrices**
4·89	21·24	11·28	7·71	·37	Pourcentage dans chaque province
11	65	30	26	2	Usines commerciales
3	–	4	20	1	Hydrauliques
8	65	26	6	1	A combustible
15	48	30	15	–	Usines municipales
2	–	1	8	–	Hydraliques
13	48	29	7	–	A combustible
1	–	4	22	1	Avec roues et turbines hydrauliques seulement
4	–	1	6	–	Avec roues et turbines hydrauliques plus usines auxiliaires
10	9	25	8	1	Avec machines à vapeur seulement
–	3	–	–	–	Avec turbines à vapeur seulement
11	98	21	5	–	Avec moteur à gaz ou à pétrole seulement
–	3	4	–	–	Avec machines et turbines à vapeur à la fois
–	–	4	–	–	Avec machines à vapeur, à gaz et à pétrole
–	–	1	–	–	Avec turbines à vapeur et moteur à gaz à pétrole
16	49	39	37	1	Avec dynamos à courant alternatif seulement
10	64	19	4	1	Avec dynamos à courant direct seulement
–	–	2	–	–	Avec dynamos à courant alternatif et direct
14	**65**	**35**	**30**	**3**	**Usines commerciales**
11	65	29	25	2	Nombre d'usines génératrices
3	–	6	5	1	Nombre d'usines achetant de l'électricité pour la revendre
21	**50**	**34**	**26**	–	**Municipalités**
14	47	30	15	–	Nombre d'usines génératrices
7	3	4	11	–	Nombre d'usines achetant de l'électricité pour la revendre
					Cités, villes et villages desservis—
56	120	68	75	2	Nombre
322,885	165,135	213,051	386,863	1,775	Population
50·00	20·00	33·00	70·00	50·00	Ratio de population totale
					Par des usines commerciales
28	69	37	48	2	Nombre
88,680	29,231	25,713	314,126	1,775	Population
					Par des usines municipales—
26	51	30	26	–	Nombre
39,355	135,904	117,338	68,394	–	Population
					Par usines commerciales et municipales
1	–	1	1	–	Nombre
194,850	–	70,000	4,343	–	Population
					Par usines hydrauliques
32	–	4	60	1	Nombre
300,534	–	2,236	367,251	975	Population
					Par usines à combustible
24	120	63	15	1	Nombre
22,351	165,135	140,815	19,612	800	Population
					Par usines hydrauliques et à combustible
–	–	1	–	–	Nombre
–	–	70,000	–	–	Population

Table 4—Capital, 1924

—	Canada	Prince Edward Is. — Ile du Prince Edouard	Nova Scotia — Nouvelle-Ecosse	New Brunswick — Nouveau-Brunswick	Quebec	Ontario
Total Capital	**628,565,093**	**509,207**	**9,000,729**	**9,650,794**	**162,812,514**	**333,012,019**
Per cent of total for Canada	100·00	·08	1·43	1·54	25·90	52·98
Generation	362,006,304	344,889	4,621,782	5,700,080	105,147,119	185,381,756
Transmission	97,683,039	–	1,748,920	1,108,749	22,267,395	58,891,899
Distribution	116,288,676	133,172	2,207,504	2,294,968	24,549,396	57,940,490
General	52,587,074	31,146	422,523	546,997	10,848,604	30,797,874
Total Capital in Commercial Stations	**326,554,580**	**439,883**	**4,815,713**	**4,804,202**	**156,552,616**	**82,928,427**
Generation	209,227,557	301,000	1,701,032	3,088,744	102,242,693	57,717,294
Transmission	44,397,981	–	1,256,455	244,451	22,028,052	10,672,884
Distribution	49,878,413	115,350	1,589,401	1,168,113	21,829,711	9,397,432
General	23,050,629	23,533	268,825	332,891	10,452,160	5,140,817
Non-Generating stations	24,132,466	***	2,561,871	645,146	6,093,757	2,732,291
Generating stations	302,422,114	***	2,253,842	4,159,056	150,458,859	80,196,136
Hydraulic stations	296,335,283	***	747,025	1,591,478	150,410,983	80,163,284
Fuel stations	6,086,831	***	1,506,817	2,567,578	47,876	32,852
Total Capital in Municipal Stations	**302,010,513**	***	**4,185,016**	**4,846,592**	**6,259,898**	**250,083,592**
Generation	152,778,747	***	2,920,750	2,611,336	2,904,426	127,664,462
Transmission	53,285,058	***	492,465	894,298	239,343	48,219,015
Distribution	66,410,263	***	618,103	1,126,855	2,719,685	48,513,058
General	29,536,445	***	153,698	214,103	396,444	25,657,057
Non-generating stations	72,416,463	***	601,736	828,416	1,083,827	66,754,756
Generating stations	229,594,050	***	3,583,280	4,018,176	5,176,071	183,328,836
Hydraulic stations	210,780,860	***	3,013,944	3,732,521	3,955,553	183,163,918
Fuel stations	18,813,190	***	569,336	285,655	1,220,518	164,918
Total Capital in Non-generating Stations	**96,548,929**	***	**3,163,607**	**1,473,562**	**7,177,584**	**69,487,047**
Generation	3,765,949	***	658,548	170,000	2,672,253	–
Transmission	6,471,218	***	1,021,534	100,869	990,750	2,084,835
Distribution	63,241,946	***	1,353,829	1,047,165	3,039,515	48,110,564
General	23,066,816	***	129,696	155,528	475,036	19,291,648
Total Capital in Generating Stations	**532,016,164**	***	**5,837,122**	**8,177,232**	**155,634,930**	**263,524,972**
Generation	358,240,355	***	3,963,234	5,530,080	102,474,866	185,381,756
Transmission	91,208,821	***	727,386	1,007,880	21,276,645	56,807,064
Distribution	53,046,730	***	853,675	1,247,803	21,509,851	9,829,926
General	29,520,258	***	292,827	391,469	10,373,568	11,506,226
Hydraulic Stations	507,116,143	***	3,760,969	5,323,999	151,366,536	263,327,202
Generation	344,219,228	***	2,890,056	3,758,053	102,150,216	185,265,318
Transmission	90,840,215	***	567,712	1,007,880	21,276,645	56,806,504
Distribution	44,157,148	***	254,585	419,017	20,669,176	9,765,288
General	27,899,552	***	48,616	139,049	10,270,499	11,490,032
Fuel Stations	24,900,021	***	2,076,153	2,853,233	1,268,394	197,770
Generation	14,021,127	***	1,073,178	1,772,027	324,650	116,438
Transmission	368,606	***	159,674	–	–	500
Distribution	8,889,582	***	599,090	828,786	840,675	64,638
General	1,620,706	***	244,211	252,420	103,069	16,194
TOTAL CAPITAL						
Average per H.P. of Primary Power	**221**	**281**	**329**	**288**	**170**	**259**
Average per H.P. including Auxiliary equipment	**208**	**271**	**237**	**268**	**165**	**246**
Average per K.V.A. of Dyanmo Capacity	**275**	**336**	**406**	**379**	**203**	**327**
Average per K.V.A. including Auxiliary equipment	**260**	**336**	**283**	**356**	**197**	**311**
Generation						
Average Cost per H.P. (including aux. equip.).						
In All Generating Stations	**120**	**184**	**122**	**158**	**107**	**137**
In Hydraulic Stations	**121**	**133**	**167**	**157**	**104**	**138**
In Fuel Stations	**99**	**195**	**103**	**176**	**125**	**72**
Transmission Lines						
Average Cost per pole line mile	**10,680**	–	**13,050**	**4,600**	**9,950**	**12,570**
Distribution Lines						
Average Cost per pole line mile	**6,640**	**1,570**	**2,730**	**3,450**	**7,690**	**7,300**

Tableau 4—Capitaux, 1924

Manitoba	Saskatchewan	Alberta	British Columbia — Colombie Britannique	Yukon	—
35,470,949	**8,397,101**	**14,461,966**	**53,811,503**	**1,438,311**	**Total des capitaux**
5·64	1·34	2·30	8·56	·23	Pourcentage dans chaque province
18,562,801	5,157,724	8,611,302	27,410,716	1,068,135	Generation
4,071,048	20,466	1,525,881	7,885,015	160,663	Transmission
10,080,825	2,812,302	3,494,742	12,750,263	25,014	Distribution
2,753,275	406,609	830,038	5,765,509	184,499	Généralités
17,673,196	**755,846**	**6,225,773**	**50,920,613**	**1,438,311**	**Total des capitaux dans les usines commerciales**
12,495,838	514,202	4,197,987	25,900,542	1,068,135	Génération
980,670	–	1,343,530	7,741,276	160,663	Transmission
3,600,245	180,881	292,170	11,680,096	25,014	Distribution
596,443	60,673	392,086	5,598,699	184,499	Généralités
592,616	–	74,470	11,211,598	213,917	Non-productrices
17,080,580	755,846	6,151,303	39,709,015	1,224,394	Productrices
17,032,776	–	5,456,465	39,647,587	1,212,527	Hydrauliques.
47,804	755,846	694,838	61,428	11,867	A combustible
17,797,753	**7,641,255**	**8,236,193**	**2,890,890**	–	**Total des capitaux dans les usines municipales**
6,066,963	4,643,432	4,413,315	1,510,174	–	Génération
3,093,378	20,466	182,351	143,739	–	Transmission
6,480,580	2,631,421	3,202,572	1,070,167	–	Distribution
2,156,832	345,936	437,952	166,810	–	Généralités
2,466,977	23,442	35,876	621,433	–	Non-productrices
15,330,776	7,617,813	8,200,317	2,269,457	–	Productrices
***	–	***	1,829,940	–	Hydrauliques
***	7,617,813	***	439,517	–	A combustible
3,059,593	**23,442**	**110,346**	**11,833,031**	***	**Total des capitaux dans les usines non productrices**
155,000	–	16,500	65,954	***	Génération
1,152,465	–	2,410	1,121,355	***	Transmission
1,019,340	21,574	82,277	8,538,647	***	Distribution
732,788	1,868	9,159	2,107,075	***	Généralités
32,411,356	**8,373,659**	**14,351,620**	**41,978,472**	***	**Total des capitaux dans les usines productrices**
18,407,801	5,157,724	8,594,802	27,344,762	***	Génération
2,921,583	20,466	1,523,474	6,763,660	***	Transmission
9,061,485	2,790,728	3,412,465	4,211,616	***	Distribution
2,020,487	404,741	820,879	3,658,434	***	Généralités
31,880,280	–	5,693,915	41,477,527	***	Hydrauliques
18,085,698	–	3,963,543	27,024,103	***	Génération
2,921,583	–	1,335,508	6,763,660	***	Transmission
8,890,743	–	76,500	4,055,139	***	Distribution
1,982,256	–	318,394	3,634,625	***	Généralités
531,076	8,373,659	8,657,675	500,945	***	A combustible
322,103	5,157,724	4,631,259	320,659	***	Génération
–	20,466	187,966	–	***	Transmission
170,742	2,790,728	3,335,965	156,477	***	Distribution
38,231	404,741	502,485	23,809	***	Généralités
					CAPITAL TOTAL
239	**156**	**162**	**222**	***	**Moyenne par H.P. de la machinerie d'énergie primaire**
200	**156**	**158**	**200**	***	**Moyenne par H.P. y compris machinerie auxiliaire**
302	**182**	**208**	**305**	***	**Moyenne par K.V.A. de la capacité des dynamos**
247	**182**	**202**	**273**	***	**Moyenne par K.V.A. y compris machinerie auxiliaire**
					Génération
					Moyenne par H.P. y compris machinerie auxiliaire
105	**96**	**91**	**192**	***	**Dans les Usines Productrices**
104	**110**	–	**102**	***	**Dans les usines hydrauliques**
121	**96**	**83**	**117**	***	**Dans les usines à combustible**
					Lignes de transmission
9,390	**4,050**	**6,660**	**7,070**	***	**Moyenne par lignes sur poteaux**
					Lignes de distribution
9,260	**4,080**	**4,250**	**5,800**	***	**Moyenne par lignes sur poteau**

Table 5—Revenue, 1924

—	Canada	Prince Edward Is. — Ile du Prince Edouard	Nova Scotia — Nouvelle-Ecosse	New Brunswick — Nouveau-Brunswick	Quebec	Ontario
GROSS REVENUES						
Gross Revenue from Sale of Electric Energy	**95,169,768**	**136,905**	**2,351,449**	**1,559,307**	**25,490,596**	**46,681,024**
Per cent of total for Canada	100·00	·14	2·47	1·64	26·79	49·05
For lighting purposes	36,011,117	117,785	1,461,541	804,417	371,246	14,549,707
For all other purposes	59,158,651	19,120	889,908	754,890	17,119,350	32,131,317
Gross Revenue of Commercial Stations	**47,529,216**	**109,151**	**1,559,262**	**978,532**	**24,120,323**	**9,824,911**
For lighting purposes	15,463,296	92,699	1,056,815	572,110	7,329,080	1,700,907
For all other purposes	32,065,920	16,452	502,447	406,422	16,791,243	8,124,004
Non Generating	7,535,846	671	878,438	253,660	1,610,793	1,410,614
Generating	39,993,570	108,480	680,824	724,872	22,509,530	8,414,297
Hydraulic	38,276,712	11,883	124,707	308,445	22,496,573	8,399,197
Fuel	1,716,858	96,597	556,117	416,427	12,957	15,100
Gross Revenue of Municipal Stations	**47,640,552**	***	**792,187**	**580,775**	**1,370,273**	**36,856,113**
For lighting purposes	20,547,821	***	404,726	232,307	1,042,166	12,848,800
For all other purposes	27,092,731	***	387,461	348,468	328,107	24,007,313
Non Generating	22,031,681	***	244,390	163,278	378,547	20,561,089
Generating	25,608,871	***	547,797	417,497	991,726	16,295,024
Hydraulic	19,727,456	***	346,238	326,106	641,153	16,215,119
Fuel	5,881,415	***	201,559	91,391	350,573	79,905
Gross Revenue of Non-generating Stations	**29,567,327**	***	**1,122,828**	**416,938**	**1,989,340**	**21,971,703**
For lighting purposes	17,299,507	***	786,157	307,562	783,708	12,486,218
For all other purposes	12,267,820	***	336,671	109,376	1,205,632	9,485,485
Gross Revenue of Generating Stations	**65,602,441**	***	**1,228,621**	**1,142,369**	**23,501,256**	**24,709,321**
For lighting purposes	18,711,610	***	675,384	496,855	7,587,538	2,063,489
For all other purposes	46,890,831	***	553,237	645,514	15,913,718	22,645,832
Gross Revenue of Hydraulic Stations	**58,004,168**	***	**470,945**	**634,551**	**23,137,726**	**24,614,316**
For lighting purposes	13,123,220	***	143,136	131,310	7,276,274	1,994,249
For all other purposes	44,880,948	***	327,809	503,241	15,861,452	22,620,067
Gross Revenue of Fuel Stations	**7,598,273**	***	**757,676**	**507,818**	**363,530**	**95,005**
For lighting purposes	5,588,390	***	532,248	365,545	311,264	69,240
For all other purposes	2,009,883	***	225,428	142,273	52,266	25,765
NET REVENUES						
***Net revenue from sale of electric energy**	**74,616,863**	***	**1,870,555**	**1,231,041**	**21,074,832**	**33,927,618**
For lighting purposes	**36,011,117**	***	**1,461,541**	**804,417**	**8,371,246**	**14,549,707**
For power purposes	**38,605,746**	***	**409,014**	**426,624**	**12,703,586**	**19,377,911**
Net revenue of commercial stations	**39,033,665**	***	**1,178,956**	**829,652**	**20,011,968**	**8,077,031**
Net revenue of municipal stations	**35,583,198**	***	**691,599**	**401,389**	**1,062,864**	**25,859,587**
Net revenue of non-generating stations	**14,754,948**	***	**693,904**	**156,786**	**953,216**	**10,230,035**
Net revenue of generating stations	**59,861,915**	***	**1,176,651**	**1,074,255**	**20,121,616**	**23,697,583**
Average net revenue per H.P. of primary power	**26·19**	**75·41**	**68·44**	**36·71**	**22·03**	**25·37**
Average net revenue per H.P. in main and auxiliary plants	**24·73**	**72·76**	**49·33**	**34·14**	**21·36**	**25·08**
Average net revenue per K.V.A. of dynamo capacity	**32·70**	**90·03**	**84·43**	**48·29**	**26·33**	**33·36**
Average net revenue per K.V.A. in main and auxiliary plants	**30·85**	**90·03**	**58·90**	**45·36**	**25·56**	**31·72**
Average net revenue per K.W. hours of all stations (cents)	**·80**	**8·76**	**4·78**	**3·08**	**·57**	**·79**

Tableau 5—Recettes, 1924

Manitoba	Saskatchewan	Alberta	British Columbia — Colombie Britannique	Yukon	—
					RECETTES BRUTES
4,513,452	**2,701,931**	**3,305,651**	**8,327,366**	**102,087**	**Recettes brutes provenant de la vente d'électricité**
4·74	2·84	3·47	8·75	·11	Pourcentage dans chaque province
2,823,303	1,972,323	2,157,582	3,697,241	55,972	Pour l'éclairage
1,690,149	729,608	1,148,069	4,630,125	46,115	Pour tous autres usages
2,268,291	**317,265**	**831,972**	**7,417,422**	**102,087**	**Recettes brutes des usines commerciales**
959,214	309,845	400,944	2,985,710	55,972	Pour l'éclairage
1,309,077	7,420	431,028	4,431,712	46,115	Pour tous autres usages
136,852	–	67,685	3,144,835	***	Non productrices
2,131,439	317,265	764,287	4,272,587	***	Productrices
2,106,891	–	527,191	4,239,893	***	Hydrauliques
24,548	317,265	237,096	32,694	***	A combustible
2,245,161	**2,384,666**	**2,473,679**	**909,944**	–	**Recettes brutes des usines municipales**
1,864,089	1,662,478	1,756,638	711,531	–	Pour l'éclairage
381,072	722,188	717,041	198,413	–	Pour tous autres usages
287,458	21,438	33,718	341,763	–	Non productrices
1,957,703	2,363,228	2,439,961	568,181	–	Productrices
***	–	***	413,670	–	Hydrauliques
***	2,363,228	***	154,511	–	A combustible
424,310	**21,438**	**101,493**	**3,486,598**	***	**Recettes brutes des usines non génératrices**
340,649	19,602	88,301	2,456,382	***	Pour l'éclairage
83,661	1,836	13,102	1,039,216	***	Pour tous autres usages
4,089,142	**2,689,493**	**3,294,248**	**4,840,768**	***	**Becettes brutes des usines génératrices**
2,482,654	1,952,721	2,069,281	1,240,859	***	Pour l'éclairage
1,606,488	727,772	1,134,967	3,599,909	***	Pour tous autres usages
3,867,064	–	**552,188**	**4,653,563**	***	**Hydrauliques**
2,308,187	–	167,692	1,073,618	***	Pour l'éclairage
1,558,877	–	384,496	3,579,945	***	Pour tous autres usages
222,078	**2,689,493**	**2,652,060**	**187,205**	***	**A combustible**
174,467	1,952,721	1,901,589	167,241	***	Pour l'éclairage
47,611	727,772	750,471	19,964	***	Pour tous autres usages
					RECETTES NETTES
4,076,618	**2,689,547**	**3,024,103**	**6,497,751**	***	**Recettes nettes provenant de vente d'électricité**
2,823,303	**1,972,323**	**2,157,582**	**3,697,241**	***	Pour l'éclairage
1,253,315	**717,224**	**866,521**	**2,800,510**	***	Pour force motive
1,892,724	**317,265**	**811,857**	**5,717,168**	***	**Recettes nettes des usines commerciales**
2,183,894	**2,372,282**	**2,212,246**	**789,583**	***	**Recettes nettes des usines municipales**
292,326	**9,054**	**61,656**	**2,339,396**	***	**Recettes nettes des usines non-génératrices**
3,784,292	**2,680,493**	**2,962,447**	**4,158,355**	***	**Recettes nettes des usines génératrices**
27·49	**49·83**	**33·84**	**26·85**	***	**Moy. des recettes nette. par h.p. de machinerie primaire**
22·97	**49·83**	**32·97**	**24·17**	***	**Moy. des recettes nettes par h.p. des usines principales et auxiliaires**
34·67	**58·39**	**43·53**	**36·85**	***	**Moy. des recettes nettes par k.v.a de la capac. des dynamos**
28·43	**58·39**	**42·25**	**32·99**	***	**Moy. des recettes nettes par k.v.a. des usines principales et auxiliaires**
·94	**4·54**	**2·49**	**1·07**	***	**Moyenne des recettes nettes par k.w. heure** (cents) **De toutes les usines**

Table 6—Expenses, 1924

—	Canada	Prince Edward Is. — Ile du Prince Edouard	Nova Scotia — Nouvelle-Ecosse	New Brunswick — Nouveau-Brunswick	Quebec	Ontario
***Total Expenses**	**40,887,779**	**61,844**	**1,188,523**	**828,974**	**7,493,323**	**22,608,738**
Per cent of total for Canada	100·00	·15	2·90	2·03	18·33	55·29
Salaries and wages	17,946,584	29,320	494,924	325,062	2,962,255	9,649,570
Fuel	2,388,290	32,188	212,705	175,646	115,301	205,762
Cost of power	20,552,905	336	480,894	328,266	4,415,764	12,753,406
***Total for Commercial Stations**	**16,777,557**	**48,410**	**864,220**	**516,795**	**6,800,713**	**3,679,201**
Salaries and wages	7,296,133	23,639	331,352	215,893	2,681,712	1,753,350
Fuel	985,873	24,435	152,562	152,022	10,646	177,971
Cost of power	8,495,551	336	380,306	148,880	4,108,355	1,747,880
Non-generating Stations	4,768,326	***	486,699	168,175	999,625	1,202,431
Generating Stations	12,009,231	***	377,521	348,620	5,801,088	2,476,770
Hydraulic Stations	10,945,731	***	35,922	82,433	5,793,467	2,468,949
Fuel Stations	1,063,500	***	341,599	266,187	7,621	7,821
***Total for Municipal Stations**	**24,110,222**	***	**324,303**	**312,179**	**692,610**	**18,929,537**
Salaries and wages	10,650,451	***	163,572	109,169	280,513	7,896,220
Fuel	1,402,417	***	60,143	23,624	104,658	27,791
Cost of power	12,057,354	***	100,588	179,386	307,409	11,005,526
Non-generating stations	15,921,196	***	130,945	202,204	240,723	15,013,070
Generating Stations	8,189,026	***	193,358	109,975	451,887	3,916,467
Hydraulic Stations	5,160,670	***	83,284	67,879	160,709	3,862,644
Fuel Stations	3,028,356	***	110,074	42,096	291,178	53,823
***Total Expenses for Non-generating Stations**	**20,689,522**	***	**617,644**	**370,379**	**1,240,348**	**16,215,501**
Salaries and wages	5,867,122	***	179,468	109,482	204,224	4,473,833
Fuel	10,021	***	9,252	745	–	–
Cost of power	14,812,379	***	428,924	260,152	1,036,124	11,741,668
***Total Expenses for Generating Stations**	**20,198,257**	***	**570,879**	**458,595**	**6,252,975**	**6,393,237**
Salaries and wages	12,079,462	***	315,456	215,580	2,758,031	5,175,737
Fuel	2,378,269	***	203,453	174,901	115,301	205,762
Cost of power	5,740,526	***	51,970	68,114	3,379,640	1,011,738
Hydraulic Stations	16,406,401	***	119,206	150,312	5,954,176	6,331,593
Fuel Stations	4,091,856	***	451,673	308,283	298,799	61,644

*These are not the total operating expenses but the totals of only the three accounts—Wages—Fuel and Power.

Table 7—Employees, 1924

—	Canada	Prince Edward Is. — Ile du Prince Edouard	Nova Scotia — Nouvelle-Ecosse	New Brunswick — Nouveau-Brunswick	Quebec	Ontario
Total Number of Persons Employed	**12,956**	**29**	**449**	**277**	**2,833**	**6,429**
Per cent of total for Canada	100·00	·22	3·47	2·14	21·87	49·62
Officers, clerks, other salaried employees, etc	5,559	11	166	115	1,310	2,811
Employees on wages	7,397	18	283	162	1,523	3,618
Total Employees in Commercial Stations	**5,849**	**22**	**302**	**186**	**2,592**	**1,320**
Officers, clerks, other salaried employees, etc	2,260	9	114	56	1,216	333
Employees on wages	3,589	13	188	130	1,376	987
Non-generating	835	–	115	37	184	68
Generating	5,014	22	187	149	2,408	1,252
Hydraulic	4,573	6	39	51	2,404	1,248
Fuel	441	16	148	98	4	4
Total Employees in Municipal Stations	**7,107**	**7**	**147**	**91**	**241**	**5,109**
Officers, clerks, other salaried employees, etc	3,299	2	52	59	94	2,478
Employees on wages	3,808	5	95	32	147	2,631
Non-Generating	3,491	–	28	52	47	3,270
Generating	3,616	7	119	39	194	1,839
Hydraulic	2,680	–	72	24	111	1,816
Fuel	936	7	47	15	83	23
Total Employees in Non-Generating Stations	**4,326**	–	**143**	**89**	**231**	**3,338**
Officers, clerks, other salaried employees, etc	2,068	–	76	51	89	1,555
Employees on wages	2,258	–	67	38	142	1,783
Total Employees in Generating Stations	**8,630**	**29**	**306**	**188**	**2,602**	**3,091**
Officers, clerks, other salaried employees, etc	3,491	11	90	64	1,221	1,256
Employees on wages	5,139	18	216	124	1,381	1,835
Hydraulic	7,253	6	111	75	2,515	3,064
Fuel	1,377	23	195	113	87	27

Tableau 6—Dépenses, 1924

Manitoba	Saskatchewan	Alberta	British Columbia — Colombie Britannique	Yukon	—
2,876,441	**1,360,141**	**1,567,189**	**3,650,281**	**52,325**	**Total des dépenses**
5·08	3·33	3·83	8·93	·13	Pourcentage dans chaque province
1,389,982	553,536	803,517	1,704,452	33,966	Traitements, appointements et salaires
249,625	794,221	482,124	116,214	4,501	Combustible
436,834	12,384	281,548	1,829,615	13,858	Achat d'énergie électrique
1,010,164	**190,069**	**374,552**	**3,241,108**	**52,325**	**Total pour les usines commerciales**
456,637	74,444	242,033	1,483,107	33,966	Traitements, appointements et salaires
177,960	115,625	112,404	57,747	4,501	Combustible
375,567	–	20,115	1,700,254	13,858	Achat d'énergie électrique.
80,157	–	33,127	1,779,575	***	Usines non productrices
930,007	190,069	341,425	1,461,533	***	Usines productrices
907,961	–	182,089	1,447,723	***	Usines hydrauliques
22,046	190,069	159,336	13,810	***	Usines à combustible
1,066,277	**1,170,072**	**1,192,637**	**409,173**	–	**Total pour les usines municipales**
9 33,345	479,092	561,484	221,345	–	Traitements, appointements et salaires
71,665	678,596	369,720	58,467	–	Combustible
61,267	12,384	261,433	129,361	–	Achat d'énergie électrique
119,210	14,574	25,478	174,992	–	Usines non productrices
947,067	1,155,498	1,167,159	234,181	–	Usines productrices
***	–	***	147,706	–	Usines hydrauliques
***	1,155,498	***	86,475	–	Usines à combustible
199,367	**14,574**	**58,605**	**1,954,567**	***	**Total des dépenses pour les usines non-productrices**
67,383	2,190	18,834	807,365	***	Traitements, appointements et salaires
–	–	24	–	***	Combustible
131,984	12,384	39,747	1,147,202	***	Achat d'énergie électrique
1,877,074	**1,245,567**	**1,508,584**	**1,695,714**	***	**Total des dépenses pour les usines productrices**
1,322,599	551,346	784,683	897,087	***	Traitements, apopintements et salaires
249,625	794,221	482,100	116,214	***	Combustible
304,850	–	241,801	682,413	***	Achat d'énergie électrique
1,740,106	–	188,392	1,595,429	***	Usines hydrauliques
136,968	1,345,567	1,320,192	100,285	***	Usines à combustible

*Ces totaux ne représentent pas les dépenses d'exploitation, mais les dépenses découlant des traitements et salaires, combustible et de a force motrice.

Tableau 7—Personnel, 1924

Manitoba	Saskatchewan	Alberta	British Columbia — Colombie Britannique	Yukon	—
959	**410**	**549**	**1,005**	**16**	**Total du personnel occupé**
7·40	3·16	4·24	7·76	·12	Pourcentage dans chaque province
380	173	199	389	5	Administrateurs, directeurs, commis et tous employés des bureaux
579	237	350	616	11	Ouvriers et journaliers
314	**79**	**173**	**845**	**16**	**Personnel des usines commerciales**
114	44	44	325	5	Administrateurs, directeurs, commis et tous employés des bureaux
200	35	129	520	11	Ouvriers et journaliers
6	–	21	402	2	Non productrices
308	79	152	443	14	Productrices
296	–	85	433	11	Hydrauliques
12	79	67	10	3	A combustible
645	**331**	**376**	**160**	–	**Personnel des usines municipales**
266	129	155	64	–	Administrateurs, directeurs, commis et tous employés des bureaux
379	202	221	96	–	Ouvriers et journaliers
42	5	7	40	–	Non productrices
603	326	369	120	–	Productrices
563	–	4	90	–	Hydrauliques
40	326	365	30	–	A combustible
48	**5**	**28**	**442**	**2**	**Total du personnel des usines non productrices**
18	3	13	262	1	Administrateurs, directeurs, commis et tous employés des bureaux
30	2	15	180	1	Ouvriers et journaliers
911	**405**	**521**	**563**	**14**	**Total du personnel des usines productrices**
362	170	186	127	4	Administrateurs, directeurs, commis et tous employés des bureaux
549	235	335	436	10	Ouvriers et journaliers
859	–	89	523	11	Hydrauliques
52	405	432	40	3	A combustible

Table 8—Number of Customers, 1924

—	Canada	Prince Edward Is. — Ile du Prince Edouard	Nova Scotia — Nouvelle-Ecosse	New Brunswick — Nouveau-Brunswick	Quebec	Ontario
Number of Customers	**1,200,950**	**3,712**	**49,315**	**27,759**	**321,494**	**507,038**
Per cent of total for Canada	100·00	·31	3·36	2·31	26·77	42·22
Domestic light	988,480	3,061	31,667	21,955	271,475	416,376
Commercial light	176,444	586	7,345	5,040	40,778	76,575
Power	36,026	70	1,303	764	9,241	14,087
Total Number of Customers of Commercial Stations	**521,064**	**3,073**	**27,642**	**16,809**	**282,570**	**58,057**
Domestic light	422,464	2,616	21,511	12,907	236,619	42,802
Commercial light	81,700	391	5,114	3,314	37,456	12,952
Power	16,900	66	1,017	588	8,495	2,303
Non-generating	123,635	32	15,737	5,536	20,308	9,033
Generating	397,429	3,041	11,905	11,273	262,262	49,024
Hydraulic	365,847	669	2,221	2,992	261,768	48,807
Fuel	31,582	2,372	9,684	8,281	494	217
Total Number of Customers of Municipal Stations	**679,886**	**644**	**12,673**	**10,950**	**38,924**	**448,981**
Domestic light	566,016	445	10,156	9,048	34,856	373,574
Commercial light	94,744	195	2,231	1,726	3,322	63,623
Power	19,126	4	286	176	746	11,784
Non-generating	467,109	–	4,968	7,010	12,914	427,117
Generating	212,777	644	7,705	3,940	26,010	21,864
Hydraulic	104,672	–	2,814	1,867	16,857	20,502
Fuel	108,105	644	4,891	2,073	9,153	1,362
Total Number of Customers of Non-Generating Stations	**590,744**	**32**	**20,705**	**12,546**	**33,222**	**436,150**
Domestic light	485,730	27	15,996	10,342	28,803	359,964
Commercial light	88,785	4	3,806	1,974	3,435	64,655
Power	16,229	1	903	230	984	11,531
Total Number of Customers of Generating Stations	**610,206**	**3,685**	**19,610**	**15,213**	**288,272**	**70,888**
Hydraulic Stations	470,519	669	5,035	4,859	278,625	69,309
Domestic light	391,078	517	4,085	4,095	234,006	55,177
Commercial light	64,201	137	847	670	36,437	11,613
Power	15,240	15	103	94	8,182	2,519
Fuel Stations	139,687	3,016	14,575	10,354	9,647	1,579
Domestic light	111,672	2,517	11,586	7,518	8,666	1,235
Commercial light	23,458	445	2,692	2,396	906	307
Power	4,557	54	297	440	75	37
Average Number of Domestic Light Customers per 100 of Population	**10·71**	**3·49**	**5·00**	**5·50**	**10·95**	**13·60**

Table 9—Pole Line Mileage, 1924

Pole Line Mileage	**26,654**	**85**	**943**	**907**	**5,433**	**12,629**
Per cent of total for Canada	100·00	·32	3·54	3·40	20·38	47·38
For transmission	9,147	–	134	241	2,239	4,686
For distribution	17,507	85	809	666	3,194	7,943
Total Pole Line Mileage—Commercial Stations	**12,102**	**72**	**616**	**484**	**4,901**	**1,954**
Non-generating	2,838	9	265	144	709	183
Generating	9,264	63	351	340	4,192	1,771
Hydraulic	8,439	38	117	109	4,179	1,764
Fuel	825	25	234	231	13	7
Total Pole Line Mileage—Municipal Stations	**14,552**	**13**	**327**	**423**	**532**	**10,675**
Non-generating	6,476	–	117	115	228	5,548
Generating	8,076	13	210	308	304	5,127
Hydraulic	6,470	–	115	263	254	5,099
Fuel	1,606	13	95	45	50	28
Total Pole Line Mileage—Non-Generating Stations	**9,314**	**9**	**382**	**259**	**937**	**5,731**
Total Pole Line Mileage—Generating Stations	**17,340**	**76**	**561**	**648**	**4,496**	**6,898**
Hydraulic stations	14,909	38	232	372	4,433	6,863
Fuel stations	2,431	38	329	276	63	35

Tableau 8—Abonnés, 1924

Manitoba	Saskatchewan	Alberta	British Columbia — Colombie Britannique	Yukon	—
92,511	**41,807**	**55,488**	**110,341**	**489**	**Nombre d'abonnés**
7·70	3·48	4·62	9·19	·04	Pourcentage du total pour le Canada
76,260	32,219	44,904	90,209	354	Eclairage, particuliers
12,678	7,962	8,575	16,791	114	Eclairage, commerçants
3,573	1,626	2,009	3,341	12	Force motrice
30,084	**5,408**	**7,639**	**89,302**	**480**	**Nombre total des abonnés des usines commerciales**
23,338	3,811	5,729	72,777	354	Eclairage, particuliers
5,147	1,567	1,694	13,951	114	Eclairage, commerçants
1,599	30	216	2,574	12	Force motrice
4,824	–	1,412	66,411	342	Non productrices
25,260	5,408	6,227	22,891	138	Productrices
24,985	–	2,087	22,312	6	Hydrauliques
275	5,408	4,140	579	132	A combustible
62,427	**36,399**	**47,849**	**21,039**	–	**Nombre total des abonnés des usines municipales**
52,922	28,408	39,175	17,432	–	Eclairage, particuliers
7,531	6,395	6,881	2,840	–	Eclairage, commerçants
1,974	1,596	1,793	767	–	Force motrice
3,814	462	925	9,899	–	Non productrices
58,613	35,937	46,924	11,140	–	Productrices
54,962	–	558	7,112	–	Hydrauliques
3,651	35,937	46,366	4,028	–	A combustible
8,638	**462**	**2,337**	**76,310**	**342**	**Nombre total des abonnés des usines non productrices**
7,428	373	1,964	60,588	245	Eclairage, particuliers
985	79	345	13,414	88	Eclairage, commerçants
225	10	28	2,308	9	Force motrice
83,873	**41,345**	**53,151**	**34,031**	**138**	**Nombre total des abonnés des usines productrices**
79,947	–	2,645	29,424	6	Hydrauliques
65,875	–	1,588	25,733	2	Eclairage, particuliers
10,833	–	932	2,731	1	Eclairage, commerçants
3,239	–	125	960	3	Force motrice
3,926	41,345	50,506	4,607	132	A combustible
2,957	31,846	41,352	3,888	107	Eclairage, particuliers
860	7,883	7,298	646	25	Eclairage, commerçants
109	1,616	1,856	73	–	Force motrice
11·79	**3·95**	**7·05**	**16·31**	**9·97**	**Moyenne des consommateurs d'éclairage électrique par 100 habitants**

Tableau 9—Longueur (en milles) des lignes sur poteaux, 1924

1,523	**700**	**1,052**	**3,313**	**69**	**Longueur totale n milles des lignes sur poteaux**
5·71	2·63	3·95	12·43	·26	Pourcentage dans chaque province
434	10	229	1,115	59	Pour la transmission
1,089	690	823	2,198	10	Pour la distribution
725	**167**	**344**	**2,770**	**69**	**Pour le service des usines commerciales**
143	–	32	1,347	6	Non productrices
582	167	312	1,423	63	Productrices
567	–	199	1,405	61	Hydrauliques
15	167	113	18	2	A combustible
798	**533**	**708**	**543**	–	**Pour le service des usines municipales**
217	14	20	217	–	Non productrices
581	519	688	326	–	Productrices
510	–	15	214	–	Hydrauliques
71	519	673	112	–	A combustible
360	**14**	**52**	**1,564**	**6**	**Pour le service des usines non productrices**
1,163	**686**	**1,000**	**1,749**	**63**	**Pour le service des usines productrices**
1,077	–	214	1,619	61	Hydrauliques
86	686	786	130	2	A combustible

Table 10—Equipment, 1924

TOTAL EQUIPMENT INCLUDING AUXILIARY PLANT EQUIPMENT

—		Canada	Prince Edward Is. — Ile du Prince Edouard	Nova Scotia — Nouvelle-Ecosse	New Brunswick — Nouveau-Brunswick	Quebec	Ontario
Total Primary Power	**H.P.**	**3,017,552**	**1,877**	**37,922**	**36,058**	**986,543**	**1,352,864**
Per cent of total for Canada		100·00	0·06	1·26	1·20	32·69	44·83
Water wheels and turbines	No.	667	8	27	19	222	297
Total capacity	H.P.	2,707,957	279	16,944	23,485	953,987	1,284,847
Steam engines	No.	196	3	32	18	17	20
Total capacity	H.P.	56,787	560	8,973	6,045	6,785	7,230
Steam turbines	No.	74	-	10	5	6	9
Total capacity	H.P.	234,567	-	11,545	5,075	25,500	60,250
Gas and oil engines	No.	282	7	6	10	8	11
Total capacity	H.P.	18,241	1,038	460	1,453	271	537
Total Dynamo Capacity	**K.V.A.**	**2,418,801**	**1,517**	**31,756**	**27,142**	**824,682**	**1,069,538**
Per cent of total for Canada		100·00	0·06	1·31	1·12	34·10	44·22
Dynamos, A.C.	No.	959	14	69	44	225	299
Capacity	K.V.A.	2,408,291	1,509	30,401	26,359	823,368	1,067,497
Dynamos, D.C.	No.	212	1	11	5	12	21
Capacity	K.W.	10,510	8	1,355	783	1,314	2,041
Commercial Stations							
Total Primary Power	**H.P.**	**1,818,450**	**1,527**	**19,795**	**22,633**	**964,763**	**410,414**
Water wheels and turbines	No.	482	8	11	13	198	183
Total capacity	H.P.	1,673,298	279	2,595	11,575	935,257	373,457
Steam engines	No.	96	2	21	15	9	8
Total capacity	H.P.	27,149	410	6,210	5,630	3,945	1,360
Steam turbines	No.	36	-	7	5	6	4
Total capacity	H.P.	112,710	-	10,800	5,075	25,500	35,500
Gas and oil engines	No.	100	5	3	4	4	4
Total capacity	H.P.	5,284	838	190	353	61	97
Total Dynamo Capacity	**K.V.A.**	**1,498,316**	**1,177**	**16,805**	**16,662**	**808,463**	**362,596**
Dynamos, A.C.	No.	570	11	36	29	191	172
Capacity	K.V.A.	1,492,900	1,169	15,975	15,935	807,161	361,827
Dynamos, D.C.	No.	162	1	8	4	10	15
Capacity	K.W.	5,416	8	830	727	1,302	769
Municipal Stations							
Total Primary Power	**H.P.**	**1,199,102**	**350**	**18,127**	**13,425**	**21,780**	**942,450**
Water wheels and turbines	No.	185	-	16	6	24	114
Total capacity	H.P.	1,034,659	-	14,349	11,910	18,730	911,390
Steam engines	No.	100	1	11	3	8	12
Total capacity	H.P.	29,638	150	2,763	415	2,840	5,870
Steam turbines	No.	38	-	3	-	-	5
Total capacity	H.P.	121,848	-	745	-	-	24,750
Gas and oil engines	No.	122	2	3	6	4	7
Total capcity	H.P.	12,957	200	270	1,100	210	440
Total Dynamo Capacity	**K.V.A.**	**920,485**	**340**	**14,951**	**10,480**	**16,219**	**706,942**
Dynamos, A.C.	No.	389	3	33	15	34	127
Capacity	K.V.A.	915,391	340	14,426	10,424	16,207	705,670
Dynamos, D.C.	No.	50	-	3	1	2	6
Capacity	K.W.	5,094	-	525	56	12	1,272

Table 11—Auxiliary Plant Equipment, 1924

Total Primary Power	**H.P.**	**168,102**	**66**	**10,590**	**2,525**	**29,960**	**66,390**
Per cent of total for Canada		100·00	0·04	6·30	1·50	17·82	39·49
Steam reciprocating engines	No.	49	1	11	7	8	12
Total capcity	H.P.	22,911	60	3,810	2,225	4,295	6,140
Steam turbines	No.	34	-	2	-	6	9
Total capacity	H.P.	143,950	-	6,700	-	25,500	60,250
Gas and oil engines	No.	11	1	1	2	2	-
Total capacity	H.P.	1,241	6	80	300	165	-
Total Secondary Power	**K.V.A.**	**136,755**	-	**9,600**	**1,647**	**24,240**	**52,578**
Commercial Stations							
Total Primary Power	**H.P.**	**116,657**	**66**	**9,105**	**2,150**	**29,180**	**36,390**
Steam reciprocating engines	No.	29	1	6	5	6	5
Total capacity	H.P.	13,686	60	2,325	1,850	3,655	890
Steam turbines	No.	24	-	2	-	6	4
Total capacity	H.P.	102,460	-	6,700	-	25,500	35,500
Gas and oil engines	No.	6	1	1	2	1	-
Total capacity	H.P.	511	6	80	300	25	-
Total Secondary Power	**K.V.A.**	**96,845**	-	**8,162**	**1,425**	**24,165**	**31,328**
Municipal Stations							
Total Primary Power	**H.P.**	**51,445**	-	**1,485**	**375**	**780**	**30,000**
Steam reciprocating engines	No.	20	-	5	2	2	7
Total capacity	H.P.	9,225	-	1,485	375	640	5,250
Steam turbines	No.	10	-	-	-	-	5
Total capacity	H.P.	41,490	-	-	-	-	24,750
Gas and oil engines	No.	5	-	-	-	1	-
Total capcity	H.P.	730	-	-	-	140	-
Total Secondary Power	**K.V.A.**	**39,910**	-	**1,438**	**222**	**75**	**21,250**

Tableau 10—Machinerie, 1924

TOTAL DE LA MACHINERIE, Y COMPRIS CELLE DES USINES AUXILIAIRES

Manitoba	Saskatchewan	Alberta	British Columbia — Colombie Britannique	Yukon	—	
177,483	**53,978**	**91,718**	**268,889**	**10,220**	**Total, force motrice primaire**	**H.P.**
5·88	1·79	3·04	8·91	0·34	Pourcentage dans chaque province	
21	–	16	55	2	Turbines et roues hydrauliques	Nomb.
145,625	–	33,520	239,270	10,000	Capacité totale	H.P.
20	19	52	14	1	Machines à vapeur	Nomb.
5,831	4,736	14,348	2,219	60	Capacité totale	H.P.
6	14	14	9	1	Turbines à vapeur	Nomb.
24,840	40,047	41,650	25,500	160	Capacité totale	H.P.
19	162	47	12	–	Moteurs à gaz et pétrole	Nomb.
1,187	9,195	2,200	1,900	–	Capacité totale	H.P.
143,375	**46,062**	**71,568**	**196,981**	**6,180**	**Machinerie développant la force motrice secondaire**	
5·93	1·90	2·96	8·14	0·26	Pourcentage dans chaque province	
50	85	83	87	3	Dynamos, C.A	Nomb.
143,091	44,726	68,549	196,641	6,150	Capacité totale	K.V.A.
14	101	40	5	2	Dynamos, C.D	Nomb.
284	1,336	3,019	340	30	Capacité totale	K.W.
					Usines commerciales	
92,064	**3,655**	**39,520**	**253,859**	**10,220**	**Total force motrice primaire**	**H.P.**
9	–	14	44	2	Turbines et roues hydrauliques	Nomb.
78,400	–	32,560	229,175	10,000	Capacité totale	H.P.
8	7	17	8	1	Machines à vapeur	Nomb.
3,501	759	4,180	1,094	60	Capacité totale	H.P.
3	1	2	7	1	Turbines à vapeur	Nomb.
10,100	84	2,000	23,500	160	Capacité totale	H.P.
4	99	34	3	–	Moteurs à gaz et pétrole	Nomb.
63	2,812	780	90	–	Capacité totale	H.P.
69,813	**2,272**	**27,747**	**186,601**	**6,180**	**Machinerie développant la force motrice secondaire**	
16	21	33	58	3	Dynamos, C.A	Nomb.
69,075	1,199	27,548	186,261	6,150	Capacité totale	K.V.A.
8	80	29	5	2	Dynamos, C.D	Nomb.
138	1,073	199	340	30	Capacité totale	K.W.
					Usines municipales	
85,419	**50,323**	**52,198**	**15,030**	**–**	**Total force motrice primaire**	**H.P.**
12	–	2	11	–	Turbines et roues hydrauliques	Nomb.
67,225	–	960	10,095	–	Capacité totale	H.P.
12	12	35	6	–	Machines à vapeur	Nomb.
2,330	3,977	10,168	1,125	–	Capacité totale	H.P.
3	13	12	2	–	Turbines à vapeur	Nomb.
14,740	39,963	39,650	2,000	–	Capacité totale	H.P.
15	63	13	9	–	Moteurs à gaz et à pétrole	Nomb.
1,124	6,383	1,420	1,810	–	Capacité totale	H.P.
73,562	**43,790**	**43,821**	**10,380**	**–**	**Machinerie développant la for e motrice secondaire**	
34	64	50	29	–	Dynamos, C.A	Nomb.
73,416	43,527	41,001	10,380	–	Capacité totale	K.V.A.
6	21	11	–	–	Dynamos, C.D	Nomb.
146	263	2,820	–	–	Capacité totale	K.W.

Tableau 11—Machines des usines auxiliaires, 1924

29,186	–	**2,350**	**26,875**	**160**	**Total, force morrice primaire**	**H.P.**
17·36	–	1·40	15·99	0·10	Pourcentage dans chaque province	
5	–	2	3	–	Machines à vapeur	Nomb.
4,106	–	1,250	1,025	–	Capacité totale	H.P.
6	–	1	9	1	Turbines à vapeur	Nomb.
24,840	–	1,000	25,500	160	Capacité totale	H.P.
2	–	1	2	–	Moteurs à gaz et à pétrole	Nomb.
240	–	100	350	–	Capacité totale	H.P.
25,775	–	**2,100**	**20,665**	**150**	**Machinerie développant la force motrice secondaire**	
					Uisnes commerciales	
13,306	–	**2,350**	**23,950**	**160**	**Total force motrice primaire**	**H.P.**
3	–	2	1	–	Machines à vapeur	Nob
3,206	–	1,250	450	–	capacité totale	H.P.
3	–	1	7	1	Turbines à vapeur	Nomb.
10,100	–	1,000	23,500	160	Capacité totale	H.P.
–	–	1	–	–	Moteurs à gaz et pétrole	Nomb.
–	–	100	–	–	Capacité totale	H.P.
11,250	–	**2,100**	**18,265**	**150**	**Machinerie développant la force motrice sedondaire**	
					Usines municipales	
15,880	–	–	**2,925**	**–**	**Total force motrice primaire**	**H.P.**
2	–	–	2	–	Machines à vapeur	Nomb.
900	–	–	575	–	Capacité totale	H.P.
3	–	–	2	–	Trubines à vapeur	Nomb.
14,740	–	–	2,000	–	Capacité totale	H.P.
2	–	–	2	–	Moterus à gaz et à pétrole	Nomb.
240	–	–	350	–	Capacité totale	H.P.
14,525	–	–	**2,400**	–	**Machinerie développant la force motrice secondaire**	

Table 12—Main Plant Equipment, 1924

—	Canada	Prince Edward Is. — Ile du Prince Edouard	Nova Scotia — Nouvelle-Ecosse	New Brunswick — Nouveau-Brunswick	Quebec	Ontario
Total Primary Power ..... **H.P.**	**2,849,450**	**1,811**	**27,332**	**33,533**	**956,583**	**1,286,474**
Per cent of total for Canada	100·00	0·06	·96	1·18	33·57	45·14
Water wheels and turbines ..... No.	667	8	27	19	222	297
Total Capacity ..... H.P.	2,707,957	279	16,944	23,485	953,987	1,284,847
Steam reciprocating engines ..... No.	147	2	21	11	9	8
Total Capacity ..... H.P.	33,876	500	5,163	3,820	2,490	1,090
Steam turbines ..... No.	40	–	8	5	–	–
Total Capacity ..... H.P.	90,617	–	4,845	5,075	–	–
Gas and oil engines ..... No.	271	6	5	8	6	11
Total Capacity ..... H.P.	17,000	1,032	380	1,153	106	537
Total Dynamo Capacity ..... **K.V.A.**	**2,282,046**	**1,517**	**22,156**	**25,495**	**800,442**	**1,016,960**
Per cent of total for Canada	100·00	0·07	·97	1·12	35·08	44·56
Dynamos, A.C. ..... No.	881	14	56	36	214	286
Total Capacity ..... K.V.A.	2,273,461	1,509	21,326	24,712	799,128	1,016,319
Dynamos, D.C. ..... No.	206	1	8	5	12	18
Total Capacity ..... K.W.	8,585	8	830	783	1,314	641
Commercial Stations						
Total Primary Power ..... **H.P.**	**1,701,793**	**1,461**	**10,690**	**20,483**	**935,583**	**374,024**
Per cent of total for Canada	100·00	0·09	0·63	1·20	54·98	21·98
Water wheels and Turbines ..... No.	482	8	11	13	198	183
Total Capacity ..... H.P.	1,673,298	279	2,595	11,575	935,257	373,457
Steam reciprocating engines ..... No.	67	1	15	10	3	3
Total Capacity ..... H.P.	13,463	350	3,885	3,780	290	470
Steam turbines ..... No.	12	–	5	5	–	–
Total Capacity ..... H.P.	10,259	–	4,100	5,075	–	–
Gas and oil engines ..... No.	154	4	2	2	3	4
Total Capacity ..... H.P.	4,773	832	110	53	36	97
Total Dynamo Capacity ..... **K.V.A.**	**1,401,471**	**1,177**	**8,643**	**15,237**	**784,298**	**331,268**
Per cent of total for Canada	100·00	0·08	0·62	1·09	55·96	23·64
Dynamos, A. C. ..... No.	520	11	27	23	181	166
Total Capacity ..... K.V.A.	1,396,205	1,169	7,813	14,510	782,996	330,649
Dynamos, D.C. ..... No.	161	1	8	4	10	14
Total Capacity ..... K.W.	5,266	8	830	727	1,302	619
Municipal Stations						
Total Primary Power ..... **H.P.**	**1,147,657**	**350**	**16,642**	**13,050**	**21,000**	**912,450**
Per cent of total for Canada	100·00	0·03	1·45	1·14	1·83	79·51
Water wheels and turbines ..... No.	185	–	16	6	24	114
Total Capacity ..... H.P.	1,034,659	–	14,349	11,910	18,730	911,390
Steam reciprocating engines ..... No.	80	1	6	1	6	5
Total Capacity ..... H.P.	20,413	150	1,278	40	2,200	620
Steam turbines ..... No.	28	–	3	–	–	–
Total Capacity ..... H.P.	80,358	–	745	–	–	–
Gas and oil engines ..... No.	117	2	3	6	3	7
Total Capacity ..... H.P.	12,227	200	270	1,100	70	440
Total Dynamo Capacity ..... **K.V.A.**	**880,575**	**340**	**13,513**	**10,258**	**16,144**	**685,692**
Per cent of total for Canada	100·00	0·04	1·53	1·17	1·83	77·87
Dynamos, A.C. ..... No.	361	3	29	13	33	120
Total Capacity ..... K.V.A.	877,256	340	13,513	10,202	16,132	685,670
Dynamos, D.C. ..... No.	45	–	–	1	2	4
Total Capacity ..... K.W.	3,319	–	–	56	12	22
Hydraulic Stations						
Total Dynamo Capacity ..... **K.V.A.**	**2,166,701**	**332**	**14,385**	**18,513**	**798,615**	**1,015,982**
Per cent of total for Canada	100·00	0·02	0·66	0·85	36·86	46·89
Dynamos, A.C. ..... No.	623	6	29	17	204	277
Total Capacity ..... K.V.A.	2,164,890	324	14,385	18,513	797,330	1,015,534
Dynamos, D.C. ..... No.	18	1	–	–	7	8
Total Capacity ..... K.W.	1,811	8	–	–	1,285	448
Fuel Stations						
Total Dynamo Capacity ..... **K.V.A.**	**115,345**	**1,185**	**7,771**	**6,982**	**1,827**	**978**
Per cent of Total for Canada	100·00	1·03	6·74	6·05	1·58	0·85
Dynamos, A.C. ..... No.	258	8	27	19	10	9
Total Capacity ..... K.V.A.	108,571	1,185	6,941	6,199	1,798	785
Dymanos, D.C. ..... No.	188	–	8	5	5	10
Total Capacity ..... K.W.	6,774	–	830	783	29	193

Tableau 12—Machines des usines principales, 1924

Manitoba	Saskatchewan	Alberta	British Columbia — Colombie Britannique	Yukon	—	
148,297	**53,978**	**89,368**	**242,014**	**10,060**	**Machinerie fournissant la force motrice primaire**	**H.P.**
5·21	1·90	3·14	8·49	·35	Pourcentage dans chaque province	
21	–	16	55	2	Turbines et roues hydrauliques	Nomb.
145,625	–	33,520	239,270	10,000	Capacité totale	H.P.
15	19	50	11	1	Machines à vapeur	Nomb.
1,725	4,736	13,098	1,194	60	Capacité totale	H.P.
–	14	13	–	–	Turbines à vapeur	Nomb.
–	40,047	40,650	–	–	Capacité totale	H.P.
17	162	46	10	–	Moteurs à gaz et à pétrole	Nomb.
947	9,195	2,100	1,550	–	Capacité totale	H.P.
117,600	**46,062**	**69,468**	**176,316**	**6,030**	**Capacité totale de l'ensemble des dynamos**	**K.V.A.**
5·15	2·02	3·04	7·73	0·26	Pourcentage dans chaque province	
37	85	79	72	2	Dynamos, C.A.	Nomb.
117,316	44,726	66,449	175,976	6,000	Capacité totale	K.V.A.
14	101	40	5	2	Dynamos, C.D.	Nomb.
284	1,336	3,019	340	30	Capacité totale	K.W.
					Usines commerciales	
78,758	**3,655**	**37,170**	**229,909**	**10,060**	**Machinerie fournissant la force motrice primaire**	**H.P.**
4·63	·21	2·18	13·51	·59	Pourcentage dans chaque province	
9	–	14	44	2	Turbines et roues hydrauliques	Nomb.
78,400	–	32,560	229,175	10,000	Capacité totale	H.P.
5	7	15	7	1	Machines à vapeur	Nomb.
295	759	2,930	644	60	Capacité totale	H.P.
–	1	1	–	–	Turbines à vapeur	Nomb.
–	84	1,000	–	–	Capacité totale	H.P.
4	99	33	3	–	Moteurs à gaz et à pétrole	Nomb.
63	2,812	680	90	–	Capacité totale	H.P.
58,563	**2,272**	**25,647**	**168,336**	**6,030**	**Capacité totale de l'ensemble des dynamos**	**K.V.A.**
4·18	0·16	1·83	12·01	0·43	Pourcentage dans chaque province	
10	21	29	50	2	Dynamos, C.A.	Nomb.
58,425	1,199	25,448	167,996	6,000	Capacité totale	K.V.A.
8	80	29	5	2	Dynamos, C.D.	Nomb.
138	1,073	199	340	30	Capacité totale	K.W.
					Usines municipales	
69,539	**50,323**	**52,198**	**12,105**	–	**Machinerie fournissant la force motrice primaire**	**H.P.**
6·06	4·38	4·55	1·05	–	Pourcentage dans chaque province	
12	–	2	11	–	Turbines et roues hydrauliques	Nomb.
67,225	–	960	10,095	–	Capacité totale	H.P.
10	12	35	4	–	Machines à vapeur	Nomb.
1,430	3,977	10,168	550	–	Capacité totale	H.P.
–	13	12	–	–	Turbines à vapeur	Nomb.
–	39,963	39,650	–	–	Capacité totale	H.P.
13	63	13	7	–	Moteurs à gaz et à pétrole	Nomb.
884	6,383	1,420	1,460	–	Capacité totale	H.P.
59,037	**43,790**	**43,821**	**7,980**	–	**Capacité totale de l'ensemble des dynamos**	**K.V.A.**
6·70	4·97	4·98	·91	–	Pourcentage dans chaque province	
27	64	50	22	–	Dynamos, C.A.	Nomb.
58,891	43,527	41,001	7,980	–	Capacité totale	K.V.A.
6	21	11	–	–	Dynamos, C.D.	Nomb.
146	263	2,820	–	–	Capacité totale	K.W.
					Les usines hydrauliques	
115,662	–	**23,200**	**174,012**	**6,000**	**Capacité totale de l'ensemble des dynamos**	**K.V.A.**
5·34	–	1·07	8·03	·28	Pourcentage dans chaque province	
21	–	12	55	2	Dynamos, C.A.	Nomb.
115,662	–	23,200	173,942	6,000	Capacité totale	K.V.A.
–	–	–	2	–	Dynamos, C.D.	Nomb.
–	–	–	70	–	Capacité totale	K.W.
					Les usines à combustible	
1,938	**46,062**	**46,268**	**2,304**	**30**	**Capacité totale de l'ensemble des dynamos**	**K.V.A.**
1·68	39·93	40·11	2·00	·03	Pourcentage dans chaque province	
16	85	67	17	–	Dynamos, C.A.	Nomb.
1,654	44,726	43,249	2,034	–	Capacité totale	K.V.A.
14	101	40	3	2	Dynamos, C.D.	Nomb.
284	1,336	3,019	270	30	Capacité totale	K.W.

Table 13—Main Plant Equipment Classified, 1924

—		Canada	Prince Edward Island — Ile du Prince-Edouard	Nova Scotia — Nouvelle-Ecosse	New Brunswick — Nouveau-Brunswick
Primary Power—Force motrice primaire		**2,849,450**	**1,811**	**27,332**	**33,533**
Water wheels and turbines—Roues hydrauliques et turbines—					
	Total No.	667	8	27	19
	Total H.P.	2,707,957	279	16,944	23,485
Under—Au-dessous de 500 H.P.	No.	222	8	20	10
	Total H.P.	39,557	279	3,674	2,085
500- 2,000 H.P.	No.	193	-	5	2
	Total H.P.	209,515	-	6,370	1,500
2,000- 5,000 H.P.	No.	90	-	2	7
	Total H.P.	259,085	-	6,900	19,900
5,000-10,000 H.P.	No.	59	-	-	-
	Total H.P.	381,200	-	-	-
10,000-15,000 H.P.	No.	61	-	-	-
	Total H.P.	707,100	-	-	-
15,000-55,000 H.P.	No.	42	-	-	-
	Total H.P.	1,111,500	-	-	-
Steam Reciprocating Engines—Machines à vapeur—					
	Total No.	147	2	21	11
	Total H.P.	33,876	500	5,163	3,820
Under—Au-dessous de 500 H.P.	No.	132	2	20	8
	Total H.P.	21,256	500	4,563	920
500 up	No.	15	-	1	3
	Total H.P.	12,620	-	600	2,900
Steam Turbines—Turbines à vapeur—					
	Total No.	40	-	8	5
	Total H.P.	90,617	-	4,845	5,075
Under—Au-dessous de 500 H.P.	No.	6	-	4	1
	Total H.P.	1,109	-	775	250
500- 2,000 H.P.	No.	14	-	4	3
	Total H.P.	13,748	-	4,070	1,825
2,000- 5,000 H.P.	No.	15	-	-	1
	Total H.P.	43,160	-	-	3,000
5,000-10,000 H.P.	No.	5	-	-	-
	Total H.P.	32,600	-	-	-
Gas and Oil Engines—Moteurs à gaz et à pétrole—					
	Total No.	271	6	5	8
	Total H.P.	17,000	1,032	380	1,153
Secondary Power—Force motrice secondaire					
Dynamos A.C. and D.C.—C.A. et C.D.—					
	Total No.	**1,087**	**15**	**64**	**41**
	Total K.V.A.	**2,282,046**	**1,517**	**22,156**	**25,495**
Dynamos A.C.—C.A.	Total No.	881	14	56	36
	Total K.V.A.	2,273,461	1,509	21,326	24,712
Under—Au-dessous de 200 K.V.A.	No.	298	12	32	16
	Total K.V.A.	27,722	1,009	3,234	1,912
200- 500 K.V.A.	No.	129	2	13	8
	Total K.V.A.	39,761	500	3,767	2,525
500- 1,000 K.V.A.	No.	131	-	5	4
	Total K.V.A.	95,304	-	3,325	2,450
1,000- 5,000 K.V.A.	No.	188	-	6	8
	Total K.V.A.	417,372	-	11,000	17,825
5,000-10,000 K.V.A.	No.	66	-	-	-
	Total K.V.A.	476,362	-	-	-
10,000-55,000 K.V.A.	No.	69	-	-	-
	Total K.V.A.	1,216,940	-	-	-
Dynamos D.C.—C.D.	Total No.	206	1	8	5
	Total K.W.	8,585	8	830	783
Under—Au-dessous de 200 K.W.	No.	194	1	6	4
	Total K.W.	3,335	8	280	133
200-500 K.W.	No.	7	-	2	-
	Total K.W.	2,150	-	550	-
500-1,000 K.W.	No.	5	-	-	1
	Total K.W.	3,100	-	-	650

Tableau 13—Machines des usines principales classifiées, 1924

Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia — Colombie Britannique	Yukon	Commercial — Commerciales	Municipal — Municipales
956,583	**1,286,474**	**148,297**	**53,978**	**89,368**	**242,014**	**10,060**	**1,701,793**	**1,147,657**
222	297	21	–	16	55	2	482	185
953,987	1,284,847	145,625	–	33,520	239,270	10,000	1,673,298	1,034,659
80	80	1	–	10	13	–	172	50
14,857	14,267	125	–	1,920	2,350	–	28,453	11,104
57	111	2	–	–	16	–	126	67
64,955	118,370	1,000	–	–	17,320	–	135,320	74,195
27	43	2	–	2	7	–	75	15
76,325	119,960	6,400	–	8,000	21,600	–	217,325	41,760
17	14	14	–	4	8	2	43	16
119,950	84,550	82,100	–	23,600	61,000	10,000	287,300	93,900
23	27	–	–	–	11	–	46	15
248,900	321,200	–	–	–	137,000	–	519,900	187,200
18	21	2	–	–	–	–	20	20
429,000	606,500	56,000	–	–	–	–	485,000	606,500
9	8	15	19	50	11	1	67	80
2,490	1,090	1,725	4,736	13,098	1,194	60	13,463	20,413
8	8	15	17	42	11	1	62	70
1,790	1,090	1,725	2,886	6,528	1,194	60	9,413	11,843
1	–	–	2	8	–	–	5	10
700	–	–	1,850	6,570	–	–	4,050	8,570
–	–	–	14	13	–	–	12	28
–	–	–	40,047	40,650	–	–	10,259	80,358
–	–	–	1	–	–	–	3	3
–	–	–	84	–	–	–	364	745
–	–	–	4	3	–	–	8	6
–	–	–	4,853	3,000	–	–	6,895	6,853
–	–	–	7	7	–	–	1	14
–	–	–	21,710	18,450	–	–	3,000	40,160
–	–	–	2	3	–	–	–	5
–	–	–	13,400	19,200	–	–	–	32,600
6	11	17	162	46	10	–	154	117
106	537	947	9,195	2,100	1,550	–	4,773	12,227
226	**304**	**51**	**186**	**119**	**77**	**4**	**681**	**406**
800,442	**1,016,960**	**117,600**	**46,062**	**69,468**	**176,316**	**6,030**	**1,401,471**	**880,575**
214	286	37	85	79	72	2	520	361
799,128	1,016,319	117,316	44,726	66,449	175,976	6,000	1,396,205	877,256
47	43	14	63	46	25	–	142	156
5,085	4,445	1,229	4,321	3,930	2,557	–	12,661	15,061
30	42	5	6	12	11	–	73	56
8,851	12,881	1,487	1,888	3,806	4,056	–	21,849	17,912
39	67	–	4	4	8	–	87	44
28,772	48,989	–	2,392	2,838	6,538	–	63,000	32,304
50	77	10	10	14	11	2	131	57
111,520	152,302	34,350	23,625	38,375	22,375	6,000	287,655	129,717
10	32	6	2	3	13	–	37	29
61,900	258,262	38,250	12,500	17,500	87,950	–	257,100	219,262
38	25	2	–	–	4	–	50	19
583,000	539,440	42,000	–	–	52,500	–	753,940	463,000
12	18	14	101	40	5	2	161	45
1,314	641	284	1,336	3,019	340	30	5,266	3,319
9	18	14	101	35	4	2	154	40
114	641	284	1,336	369	140	30	2,666	669
2	–	–	–	2	1	–	5	2
600	–	–	–	800	200	–	1,350	800
1	–	–	–	3	–	–	2	3
600	–	–	–	1,850	–	–	1,250	1,850

Table 14—Electric Energy Generated, 1924

—	Canada	Prince Edward Is. — Ile du Prince Edouard	Nova Scotia — Nouvelle-Ecosse	New Brunswick — Nouveau-Brunswick	Quebec	Ontario
ALL STATIONS						
Total K.W. Hours Generated (thousands)	**9,315,277**	**1,555**	**39,106**	**39,967**	**3,714,805**	**4,289,029**
Per cent of total for Canada	100·00	0·02	0·42	0·43	39·88	46·04
K.W. Hours generated by non-generating stations (thousands)	6,911	–	603	28	–	6,256
K.W. Hours generated by generating stations (thousands)	9,308,366	1,555	38,503	39,939	3,714,805	4,282,773
K.V.A. Capacity of generating stations	2,400,499	1,517	22,563	25,870	821,557	1,066,288
Ratio of output to maximum capacity (per cent)	48·5	11·7	19·4	17·6	57·7	51·2
Average K.W. hrs. per K.V.A	3,878	1,025	1,706	1,544	4,522	4,017
Commercial Stations						
Total						
K.W. hours generated (thousands)	6,024,232	1,279	14,664	25,736	3,685,970	1,394,913
K.V.A. capacity	1,486,161	1,177	9,050	15,612	805,338	362,596
Ratio of output to maximum capacity (p.c.)	49·5	12·4	18·4	18·8	58·4	44·7
Average K.W. hours per K.V.A	4,054	1,087	1,620	1,648	4,578	3,847
Hydraulic						
K.W. hours generated (tbousands)	5,994,217	88	3,379	13,278	3,685,711	1,394,550
K.V.A. capacity	1,466,265	332	3,123	9,525	805,128	362,300
Ratio of output to maximum capacity (p.c.)	49·8	3·0	12·3	15·9	58·4	44·7
Average K.W. hours per K.V.A	4,088	265	1,082	1,394	4,578	3,849
Fuel						
K.W. hours generated (thousands)	30,015	1,191	11,285	12,458	259	363
K.V.A. capacity	19,896	845	5,927	6,087	210	296
Ratio of output to maximum capacity (p.c.)	17·2	16·0	21·7	23·3	14·0	14·0
Average K.W. hours per K.V.A	1,509	1,409	1,904	2,047	1,233	1,226
Municipal Stations						
Total						
K.W. hours generated (thousands)	3,284,134	276	23,839	14,203	28,835	2,887,860
K.V.A. capacity	914,338	340	13,513	10,258	16,219	703,692
Ratio of output to maximum capacity (p.c.)	47·0	9·2	20·1	15·8	21·2	55·0
Average K.W. hours per K.V.A	3,592	812	1,764	1,385	1,778	4,104
Hydraulic						
K.W. hours generated (thousands)	3,164,821	–	21,752	12,500	27,993	2,886,903
K.V.A. capacity	818,889	–	11,669	9,363	14,852	703,010
Ratio of output to maximum capacity (p.c.)	51·5	–	21·2	15·2	22·7	55·0
Average K.W. hours per K.V.A	3,865	–	1,864	1,335	1,885	4,106
Fuel						
K.W. hours generated (thousands)	119,313	276	2,087	1,703	842	957
K.V.A. capacity	95,449	340	1,844	895	1,617	682
Ratio of output to maximum capacity (p.c.)	14·2	9·2	12·9	21·7	5·9	16·0
Average K.W. hours per K.V.A	1,250	812	1,132	1,903	5,207	1,403
Total Hydraulic						
K.W. hours generated (thousands)	9,159,038	88	25,131	25,778	3,713,704	4,281,453
K.V.A. generated	2,285,154	332	14,792	18,888	819,730	1,065,310
Ratio of output to maximum capacity (p.c.)	48·1	3·0	19·3	15·5	57·8	51·3
Average K.W. hours per K.V.A	4,008	265	1,699	1,365	4,530	4,019
Total Fuel						
K.W. hours generated (thousands)	149,328	1,467	13,372	14,161	1,101	1,320
K.V.A. capacity	115,345	1,185	7,771	6,982	1,827	978
Ration of output to maximum capacity (p.c.)	14·7	14·1	19·6	23·1	6·9	15·4
Average K.W. hours per K.V.A	1,295	1,238	1,721	2,028	603	1,350

Tableau 14—Energie électrique produite, 1924

Manitoba	Saskatchewan	Alberta	British Columbia — Colombie Britannique	Yukon	—
					TOUTES USINES
433,517	**59,200**	**121,291**	**608,089**	**8,718**	**Total K.W. heures produits** (milliers)
4·65	0·64	1·30	6·53	0·09	Pourcentage du total pour le Canada
–	–	20	–	4	K.W. heures produits par les usines non génératrices (milliers)
433,517	59,200	121,271	608,089	8,714	K.W. heures produits par les usines génératrices (milliers)
142,763	46,062	71,493	196,356	6,030	Capacité des usines génératrices en K.V.A.
37·9	14·6	19·3	35·7	16·5	Proportion de la production à la capacité (p.c.)
3,037	1,285	1,696	3,097	1,445	Moyenne des k.w. heures par K.V.A.
					Usines commerciales
					Total
231,114	1,598	68,622	591,622	8,714	K.W. heures produits (milliers)
69,813	2,272	27,672	186,601	6,030	Capacité en K.V.A.
3·83	8·0	28·2	36·5	16·5	Prnportion de la production à la capacité (p.c.)
3,310	703	2,480	3,171	1,445	Moyenne des k.w. heures par K.V.A.
					Hydrauliques
230,972	–	66,429	591,135	8,675	K.W. heures produits (milliers)
69,600	–	24,375	185,882	6,000	Capacité en K.V.A.
38·4	–	31·0	36·8	16·5	Proportion de la production à la capacité (p.c.)
3,319	–	2,725	3,180	1,446	Moyenne des K.W. heures par K.V.A.
					A combustible
142	1,598	2,193	487	39	K.W. heures produits (milliers)
213	2,272	3,297	719	30	Capacité en K.V.A.
7·6	8·0	7·6	7·7	14·8	Proportion de la production à la capacité (p.c.)
667	703	665	677	1,300	Moyenne des K.W. heures par K.V.A.
					Usines municipales
					Total
202,403	57,602	52,649	16,467	–	K.W. heures produits (milliers)
72,950	43,790	43,821	9,755	–	Capacité en K.V.A.
37·5	15	13·7	19·2	–	Proportion de la production à la capacité (p.c.)
2,775	1,315	1,201	1,688	–	Moyenne des K.W. heures par K.V.A.
					Hydrauliques
200,740	–	871	14,062	–	K.W. heures produits (milliers)
71,225	–	850	8,170	–	Capacité en K.V.A.
38·3	–	13·3	19·6	–	Proportion de la production à la capacité (p.c.)
2,818	–	1,025	1,721	–	Moyenne des K.W. heures par K.V.A.
					A combustible
1,663	57,602	51,778	2,405	–	K.W. heures produits (milliers)
1,725	43,790	42,971	1,585	–	Capacité en K.V.A.
11·0	15·0	13·7	17·3	–	Proportion de la production à la capacité (p.c.)
964	1,315	1,205	1,517	–	Moyenne des K.W. heures par K.V.A.
					Total hydrauliques
431,712	–	67,300	605,197	8,675	K.W. heures produits (milliers)
140,825	–	25,225	194,052	6,000	Capacité en K.V.A.
38·3	–	30·5	35·9	16·5	Proportion de la production à la capactié (p.c.)
3,066	–	2,668	3,119	1,446	Moyenne des K.W. heures par K.V.A.
					Total à combustible
1,805	59,200	53,971	2,892	39	K.W. heures produits (milliers)
,1938	46,062	46,268	2,304	30	Capacité en K.V.A.
10·6	14·6	13·3	14·3	15·0	Proportion de la production à la capacité (p.c.)
931	1,285	1,166	1,255	1,300	Moyenne des K.W. heures par K.V.A.

Tableau 15—Fuel, 1924
Tableau 15—Combustible, 1924

Province	Coal — Charbon		Coke — Coke		Gasoline and Coal Oil — Gazoline et huile de charbon		Fuel Oil — Pétrole	
	Quantity — Quantité	Value — Valeur	Quantity — Quantité	Value — Valeur	Quantity — Quantité	Value — Valeur	Quantity — Quantité	Value — Valeur
	ton — tonnes	$ — $	ton — tonnes	$ — $	gal. — gal.	$ — $	gal. — gal.	$ — $
Canada	**429,408**	**1,918,470**	**1,731**	**6,976**	**277,541**	**72,719**	**1,539,156**	**192,307**
Prince Edward Island	2,992	30,559	-	-	-	-	11,000	1,229
Nova Scotia	39,409	197,085	-	-	220	77	48,387	8,442
New Brunswick	25,164	163,392	-	-	3,392	813	86,500	11,311
Quebec	3,733	39,554	-	-	5,857	1,989	14,085	2,029
Ontario	27,142	184,299	1,728	6,946	6,600	1,885	2,075	305
Manitoba	33,869	202,749	3	30	17,258	4,733	110,413	18,164
Saskatchewan	123,722	623,293	-	-	160,973	47,335	434,046	80,280
Alberta	165,230	430,847	-	-	48,776	11,983	41,365	6,805
British Columbia	8,147	46,692	-	-	34,465	3,904	791,285	63,742
Yukon	-	-	-	-	-	-	-	-

—	Wood — Bois		Gas — Gaz		Other Fuel — Autre combustible	Total
	Quantity — Quantité	Value — Value	Quantity — Quantité	Value — Valeur	Quantity — Quantité	Value — Valeur
	cord — corde	$	1,000 cu. ft. — 1,000 pd cu.	$	$	$
Canada	**16,650**	**87,382**	**952,979**	**32,515**	**77,921**	**2,388,290**
Prince Edward Island	100	400	-	-	-	32,188
Nova Scotia	841	4,202	-	-	2,809	212,705
New Brunswick	20	80	125,000	50	-	175,646
Quebec	20	75	-	-	71,657	115,304
Ontario	2,367	12,327	-	-	-	205,762
Manitoba	4,211	23,949	-	-	-	249,625
Saskatchewan	7,928	40,049	-	-	3,264	794,221
Alberta	-	-	837,979	32,465	24	482,124
British Columbia	634	1,799	-	-	77	116,214
Yukon	529	4,501	-	-	-	4,501

Cost of steam purchased by the Windsor, Ont., station to operate its engines is not included.
Sans inclure le cout de la vapeur achetec pour les engines de la station de Windsor, Ont.

CANADA

BUREAU FÉDÉRAL DE LA STATISTIQUE

RECENSEMENT INDUSTRIEL, 1924

Usines Électriques Centrales du Canada

(Préparé en collaboration avec le Service des forces Hydrauliques du Drainage et de l'Irrigation du Dominion du ministère de l'Intérieur, et avec le concours de la Commission Hydro-électrique d'Ontario, la Commission des Eaux Courantes de Québec, la Commission de l'Énergie Électrique du Nouveau-Brunswick, la Commission de la Force Motrice de la Nouvelle-Écosse et la Commission de la Force Motrice du Manitoba)

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OTTAWA
F. A. ACLAND
IMPRIMEUR DE SA TRÈS EXCELLENTE MAJESTÉ LE ROI
1926

Prix, 25 cents