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DOMINION BUREAU OF STATISTICS

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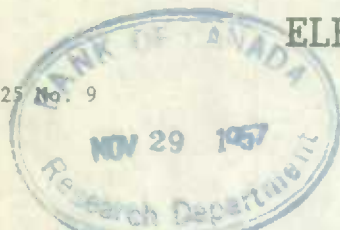
Memorandum

ELECTRIC POWER STATISTICS

(Central Electric Stations)

Vol. 25 No. 9

Price: \$1.00 per year



September, 1957

This report is the ninth of a revised monthly statistical series on electric power in Canada. It replaces "Central Electric Stations", which was a monthly compilation of the generation and distribution of electric power by firms which sold at least part of their electric power production. In the revised series certain firms which generate electricity solely for use in their own industry, mine, etc. with none for sale to the public have been included. These firms were excluded from the former Central Electric Stations series since none of their output was sold to the public, and in the revised series, their electric power generation has been classed as "generated by industry". To this "industrial" group has been added certain firms formerly included in the Central Electric Stations series. These firms include industrial producers with small amounts of electrical energy for sale. The remaining firms whose essential function is to sell electric energy have been classed as "Utilities" and their generation has been reported as "generated by utilities".

Statistics have been collected from only those firms which generate at least 10 million kilowatt hours per year. It is estimated, however, that the generation of these firms represents approximately 96 per cent of the total electricity production in Canada and consequently will reflect the growth of electric power generation more effectively than the previous series.

Total net generation as defined for the purpose of this series means total output less the amount used in station service; that is, the net amount available for domestic, commercial or industrial purposes. The amount of electric energy available for disposal in Canada is calculated by adding imports, and subtracting exports from the total net generation. These statistics on "Total available for disposal" in Canada and in the provinces were previously classed as "consumption". The classification "Used in electric boilers" replaces what was formerly termed "consumption secondary", although secondary consumption did contain a relatively small amount of energy used for purposes other than electric boilers.

In order to establish historical continuity, statistics have been compiled on the new basis back to 1949. These comprise net generation totals for utilities and industry, by province, and appear as a special supplement in the June 1957 report. Although presented for utilities, monthly 1956 net generation figures are not available for industry.

Total net generation in Canada in September, 1957, amounted to 6,964,083,000 kwh of which 5,646,123,000 kwh were produced by utilities and 1,317,960,000 kwh by industrial firms. Generation by utilities increased 0.5 per cent from the August total of 5,615,756,000 kwh while the amount produced by industries rose 1.1 per cent from 1,303,420,000 kwh resulting in an overall increase of 0.6 per cent from the August total of 6,919,176,000 kwh.

Hydro plants were responsible for 91.5 per cent of September generation, the balance being generated by thermal plants. At 6,368,703,000 kwh, hydro generation increased 0.4 per cent from the previous month while thermal generation increased 3.2 per cent to 595,380,000 kwh.

Quebec lead the provinces in the production of electric energy with a September total of 2,851,869,000 kwh. Totals for other provinces and the territories in order of production were as follows: Ontario - 2,382,583,000 kwh; British Columbia - 841,798,000 kwh; Manitoba - 243,310,000 kwh; Alberta - 183,742,000 kwh; Saskatchewan - 133,319,000 kwh; Nova Scotia - 116,843,000 kwh; New Brunswick - 105,693,000 kwh; Newfoundland - 90,574,000 kwh; Yukon and Northwest Territories - 9,810,000 kwh and Prince Edward Island - 4,542,000 kwh.

Total imports of electric energy from the United States increased to 112,298,000 kwh from 98,317,000 kwh in August, while exports to the United States increased 5.8 per cent to 366,937,000 kwh. Total amount of electric energy available for disposal in Canada in September was 6,709,444,000 kwh or 0.6 per cent more than that available in August; of this amount 206,608,000 kwh were used in electric boilers, an increase of 25.7 per cent over last month.

Prepared in the Transportation and Public Utilities Section.

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Electric Power Statistics

September, 1957

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
	(Thousand kwh )			
Generated by:				
Utilities - Hydro .....	5,178,563	59,819	-	31,170
- Thermal .....	467,560	1,622	4,542	74,866
- Total .....	5,646,123	61,441	4,542	106,036
Industry - Hydro .....	1,190,140	26,480	-	1,647
- Thermal .....	127,820	2,653	-	9,160
- Total .....	1,317,960	29,133	-	10,807
Total net generated .....	6,964,083	90,574	4,542	116,843
Energy imported:				
From other provinces .....	xxxx	-	-	-
From United States .....	112,298	-	-	-
Total .....	112,298	-	-	-
Energy exported:				
To other provinces .....	xxxx	3,421	-	685
To United States - primary .....	101,219	-	-	-
- secondary .....	265,718	-	-	-
Total .....	366,937	3,421	-	685
Total available for disposal in Canada .....	6,709,444	87,153	4,542	116,158
(includes interruptable and at will energy and energy used in electric boilers)				
Used in electric boilers .....	206,608	2,870	-	-

Cumulative totals, January - September

Generated by:				
Utilities - Hydro .....	48,443,627	690,558	-	368,849
- Thermal .....	4,118,753	10,291	40,842	613,643
- Total .....	52,562,380	700,849	40,842	982,492
Industry - Hydro .....	12,346,062	249,618	-	23,280
- Thermal .....	1,316,150	30,791	-	84,675
- Total .....	13,662,212	280,409	-	107,955
Total net generated .....	66,224,592	981,258	40,842	1,090,447
Energy imported:				
From other provinces .....	xxx	-	-	-
From United States .....	626,983	-	-	-
Total .....	626,983	-	-	-
Energy exported:				
To other provinces .....	xxx	32,944	-	6,285
To United States - primary .....	956,260	-	-	-
- secondary .....	2,642,540	-	-	-
Total .....	3,598,800	32,944	-	6,285
Total available for disposal in Canada .....	63,252,775	948,314	40,842	1,084,162
(includes interruptable and at will energy and energy used in electric boilers)				
Used in electric boilers .....	1,548,777	66,606	-	-

Electric Power Statistics

September, 1957

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
(Thousand kwh )							
32,384	2,282,688	2,102,712	243,270	43,573	63,568	314,373	5,006
46,158	60	128,017	40	87,494	112,868	11,719	174
78,542	2,282,748	2,230,729	243,310	131,067	176,436	326,092	5,180
3,481	555,538	106,591	-	-	-	491,773	4,630
23,670	13,583	45,263	-	2,252	7,306	23,933	-
27,151	569,121	151,854	-	2,252	7,306	515,706	4,630
105,693	2,851,869	2,382,583	243,310	133,319	183,742	841,798	9,810
1,823	4,472	487,423	45,915	193	2,016	55	-
854	33	23,152	-	-	-	88,259	-
2,677	4,505	510,575	45,915	193	2,016	88,314	-
-	479,030	1,141	9,724	45,825	55	2,016	-
199	420	100,506	2	-	-	92	-
3	3,278	262,365	-	-	-	72	-
202	482,728	364,012	9,726	45,825	55	2,180	-
108,168	2,373,646	2,529,146	279,499	87,687	185,703	927,932	9,810
-	175,871	10,066	15,647	-	-	1,192	962

Cumulative totals, January - September

356,252	20,526,809	20,033,185	2,451,597	400,562	597,554	2,972,954	45,307
352,222	1,163	1,133,239	1,493	810,584	1,051,585	102,320	1,371
708,474	20,527,972	21,166,424	2,453,090	1,211,146	1,649,139	3,075,274	46,678
51,076	6,345,873	1,028,334	-	-	-	4,608,907	38,974
237,459	142,215	447,774	-	20,624	60,710	291,902	-
288,535	6,488,088	1,476,108	-	20,624	60,710	4,900,809	38,974
997,009	27,016,060	22,642,532	2,453,090	1,231,770	1,709,849	7,976,083	85,652
16,569	49,910	3,959,322	416,483	1,671	15,724	3,031	-
4,936	297	217,069	-	-	-	404,681	-
21,505	50,207	4,176,391	416,483	1,671	15,724	407,712	-
-	3,849,806	17,538	121,471	415,911	3,031	15,724	-
16,906	3,777	934,719	15	-	-	843	-
4,321	31,711	2,603,100	-	-	-	3,408	-
21,227	3,885,294	3,555,357	121,486	415,911	3,031	19,975	-
997,287	23,180,973	23,263,566	2,748,087	817,530	1,722,542	8,363,820	85,652
117	983,633	144,528	280,345	-	-	65,086	8,462





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Electric Power Statistics

September, 1957

Month	Daily Average		Total net generation	Imports from United States	Exports to United States	Total available for disposal in Canada
	Total net generation	Total available for disposal				
	(Thousand kwh)					
January .....	261,718	252,503	8,113,273	64,939	350,610	7,827,602
February .....	261,378	250,002	7,318,572	31,221	349,741	7,000,052
March .....	* 252,400	* 240,476	* 7,824,401	19,464	389,110	* 7,454,755
April .....	250,799	237,453	* 7,523,956	27,701	428,069	* 7,123,588
May .....	245,734	233,750	* 7,617,758	64,733	436,229	* 7,246,262
June .....	* 226,600	* 216,420	* 6,798,006	95,110	400,519	* 6,492,597
July .....	230,496	217,039	7,145,367	113,200	530,357	6,728,210
August .....	223,199	215,183	6,919,176	98,317	346,829	6,670,664
September .....	232,136	223,581	6,964,083	112,298	366,937	6,709,444
October .....						
November .....						
December .....						
Total .....						

\* Revised

Month	Net generation - 1957						
	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
	(Thousand kwh )						
January .....	5,662,916	632,830	6,295,746	1,654,555	162,972	1,817,527	8,113,273
February .....	5,166,252	527,507	5,693,759	1,466,697	158,116	1,624,813	7,318,572
March .....	5,641,265	504,383	6,145,648	1,509,030	169,723	1,678,753	7,824,401
April .....	5,443,329	421,023	5,864,352	1,507,957	151,647	1,659,604	7,523,956
May .....	5,557,863	382,408	5,940,271	1,533,616	143,871	1,677,487	7,617,758
June .....	5,121,716	386,639	5,508,355	1,148,747	140,904	1,289,651	6,798,006
July .....	5,493,938	358,432	5,852,370	1,170,830	122,167	1,292,997	7,145,367
August .....	5,177,785	437,971	5,615,756	1,164,490	138,930	1,303,420	6,919,176
September .....	5,178,563	467,560	5,646,123	1,190,140	127,820	1,317,960	6,964,083
October .....							
November .....							
December .....							

Net generation, 1949-1956  
CANADA

Year and month	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
				(Thousand kwh )			
1949 .....	36,204,809	1,390,562	37,595,371	n.a.	n.a.	12,889,749	50,485,120
1950 .....	39,783,365	1,647,557	41,430,922	"	"	13,428,593	54,859,515
1951 .....	46,322,206	1,732,652	48,054,858	"	"	13,369,527	61,424,385
1952 .....	49,618,513	2,222,115	51,840,628	"	"	14,086,950	65,927,578
1953 .....	49,542,536	3,797,345	53,339,881	"	"	16,400,824	69,740,705
1954 .....	52,155,854	3,178,434	55,334,288	"	"	17,547,555	72,881,843
1955 .....	58,444,886	3,197,153	61,642,039	"	"	18,381,161	80,023,200
1956 - Total .....	64,551,948	4,292,898	68,844,846	"	"	19,119,968	87,964,814
January .....	5,253,744	380,823	5,634,567	"	"	n.a.	n.a.
February .....	4,999,928	367,465	5,367,393	"	"	"	"
March .....	5,232,703	378,947	5,611,650	"	"	"	"
April .....	5,168,073	292,701	5,460,774	"	"	"	"
May .....	5,549,616	263,531	5,813,147	"	"	"	"
June .....	5,334,952	239,425	5,574,377	"	"	"	"
July .....	5,265,802	275,108	5,540,910	"	"	"	"
August .....	5,368,420	313,748	5,682,168	"	"	"	"
September .....	5,387,879	347,156	5,735,035	"	"	"	"
October .....	5,758,423	427,078	6,185,501	"	"	"	"
November .....	5,543,552	488,630	6,032,182	"	"	"	"
December .....	5,688,856	518,286	6,207,142	"	"	"	"