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ELECTRIC POWER STATISTICS (Central Electric Stations)

May, 1957

This report is the fifth 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 are being compiled on the new basis back to 1949. The January report showed net generation statistics back to 1954 only, for utilities by province. Subsequent reports, however, will include earlier years for both utilities and industry where feasible and as compiled.

Total net generation in Canada in May, 1957 amounted to 7,617,749,000 kwh of which 5,940,271,000 kwh was produced by utilities and 1,677,478,000 kwh by industrial firms. This was an increase of 1.2 per cent from the April total net generation of 7,523,966,000 kwh. Utilities showed an increase of 1.3 per cent over the 5,864,352,000 kwh produced in April, while industries increased 1.1 per cent from 1,659,614,000 kwh. The amount produced by utilities was an increase of 132,300,000 kwh or 2.3 per cent over that produced in May of last year.

Of the total net generation for May, 1957, 93.1 per cent was generated by hydro while the balance was generated by thermal plants. Generation by hydro at 7,091,479,000 kwh was a 2.0 per cent increase over the April figures, while thermal generation at 526,270,000 kwh dropped by 8.1 per cent.

Of the provinces, Quebec was the largest producer of electric energy in May with a total of 3,130,443,000 kwh. Total net generation of the other provinces in order of production follows: Ontario - 2,641,082,000 kwh; British Columbia - 877,287,000; Manitoba - 286,636,000; Alberta - 185,635,000; Saskatchewan - 131,171,000; Newfoundland - 118,462,000; Nova Scotia - 116,175,000; New Brunswick - 115,640,000; Yukon and Northwest Territories - 10,867,000; and Prince Edward Island - 4,351,000 kwh.

Total imports of electric energy from the United States increased this month to 64,733,000 kwh from 27,701,000 kwh in April, while exports to the United States rose 1.9 per cent to 436,229,000 kwh. Total amount of electric energy available for disposal in Canada in May was 7,246,253,000 kwh or 1.7 per cent more than that available in April, and of this amount, 208,376,000 kwh was used in electric boilers, a 44.4 per cent increase over last month.

Prepared in the Transportation and Public Utilities Section.

8504-509-57

1. Revised

Electric Power Statistics
May, 1957

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
		(Thousand kwh)		
Generated by:				
Utilities - Hydro	5,557,863	86,636	-	49,026
- Thermal	382,408	148	4,351	54,320
- Total	5,940,271	86,784	4,351	103,346
Industry - Hydro	1,533,616	29,613	-	3,206
- Thermal	143,862	2,065	-	9,623
- Total	1,677,478	31,678	-	12,829
Total net generated	7,617,749	118,462	4,351	116,175
Energy imported:				
From other provinces	XXX	-	-	-
From United States	64,733	-	-	-
Total	64,733	-	-	-
Energy exported:				
To other provinces	XXX	3,911	-	654
To United States - primary	110,837	-	-	-
- secondary	325,392	-	-	-
Total	436,229	3,911	-	654
Total available for disposal in Canada	7,246,253	114,551	4,351	115,521
(includes interruptable and at will energy and energy used in electric boilers)				
Used in electric boilers	208,376	13,297	-	-

Cumulative totals, January - May

Generated by:				
Utilities - Hydro	27,471,625	425,127	-	246,411
- Thermal	2,468,151	1,352	22,935	317,948
- Total	29,939,776	426,479	22,935	564,359
Industry - Hydro	7,671,855	137,359	-	13,977
- Thermal	786,240 ¹	21,081	-	47,335
- Total	8,458,095 ¹	158,440	-	61,312
Total net generated	38,397,871 ¹	584,919	22,935	625,671
Energy imported:				
From other provinces	XXX	-	-	-
From United States	208,058	-	-	-
Total	208,058	-	-	-
Energy exported:				
To other provinces	XXX	21,000	-	3,696
To United States - primary	535,777 ¹	-	-	-
- secondary	1,417,982 ¹	-	-	-
Total	1,953,759 ¹	21,000	-	3,696
Total available for disposal in Canada	36,652,170 ¹	563,919	22,935	621,975
(includes interruptable and at will energy and energy used in electric boilers)				
Used in electric boilers	761,127	56,742	-	-

1. Includes revised April statistics.

Electric Power Statistics
May, 1957

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
(Thousand kwh)							
58,618	2,289,030	2,375,917	286,636	41,538	68,117	297,251	5,094
25,656	6	90,380	-	86,803	110,956	9,634	154
84,274	2,289,036	2,466,297	286,636	128,341	179,073	306,885	5,248
10,085	824,333	122,681	-	-	-	538,079	5,619
21,281	17,074	52,104	-	2,830	6,562	32,323	-
31,366	841,407	174,785	-	2,830	6,562	570,402	5,619
115,640	3,130,443	2,641,082	286,636	131,171	185,635	877,287	10,867
1,795	4,881	379,212	44,175	161	1,156	401	-
140	32	18,640	-	-	-	45,921	-
1,935	4,913	397,852	44,175	161	1,156	46,322	-
-	358,065	991	22,449	44,154	401	1,156	-
3,705	44,232	62,812	2	-	-	86	-
1,073	3,164	321,056	-	-	-	99	-
4,778	405,461	384,859	22,451	44,154	401	1,341	-
112,797	2,729,895	2,654,075	308,360	87,178	186,390	922,268	10,867
89	124,206	25,827	38,836	-	-	5,214	907

Cumulative totals, January - May

174,774	11,554,252	11,220,469	1,457,264	231,660	311,538	1,824,022	26,108
210,596	1,047	743,844	1,355	464,852	640,302	63,151	769
385,370	11,555,299	11,964,313	1,458,619	696,512	951,840	1,887,173	26,877
25,570	4,300,066	575,340	-	-	-	2,600,929	18,614
136,277	87,280 ¹	265,032	-	11,762	32,661	184,812	-
161,847	4,387,346 ¹	840,372	-	11,762	32,661	2,785,741	18,614
547,217	15,942,645 ¹	12,804,685	1,458,619	708,274	984,501	4,672,914	45,491
9,560	26,366	1,975,991 ¹	239,058	1,004	11,602	2,390	-
3,507	177	139,255 ¹	-	-	-	65,119	-
13,067	26,543	2,115,246 ¹	239,058	1,004	11,602	67,509	-
-	1,915,781 ¹	5,593	67,078	238,831	2,390	11,602	-
8,841	223,856 ¹	302,720	7	-	-	353	-
2,363	16,546 ¹	1,395,890	-	-	-	3,183	-
11,204	2,156,183 ¹	1,704,203	67,085	238,831	2,390	15,138	-
549,080	13,813,005	13,215,728 ¹	1,630,592	470,447	993,713	4,725,285	45,491
89	389,688	60,766	190,266	-	-	58,441	5,135

1. Includes revised April statistics.



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Electric Power Statistics

May, 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 ¹	252,503 ¹	8,113,273 ¹	64,939	350,610	7,827,602 ¹
February	261,378 ¹	250,002 ¹	7,318,572 ¹	31,221	349,741 ¹	7,000,052 ¹
March	252,397 ¹	240,743 ¹	7,824,311 ¹	19,464	389,110 ¹	7,454,665 ¹
April	250,799 ¹	237,453 ¹	7,523,966 ¹	27,701 ¹	428,069 ¹	7,123,598 ¹
May	245,734	233,750	7,617,749	64,733	436,229	7,246,253
June						
July						
August						
September						
October						
November						
December						
Total						

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 ¹	162,972 ¹	1,817,527 ⁱ	8,113,273 ¹
February	5,166,252	527,507	5,693,759	1,466,697 ¹	158,116 ¹	1,624,813 ¹	7,318,572 ¹
March	5,641,265	504,383	6,145,648	1,509,030 ¹	169,633 ¹	1,678,663 ¹	7,824,311 ¹
April	5,443,329	421,023	5,864,352	1,507,957 ¹	151,657 ¹	1,659,614 ¹	7,523,966 ¹
May	5,557,863	382,408	5,940,271	1,533,616	143,862	1,677,478	7,617,749
June							
July							
August							
September							
October							
November							
December							

Net generation, 1949-1956
CANADA

Year and month	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
(Thousand kwh)							
1949							
1950							
1951	2	2	2	2	2	2	2
1952							
1953							
1954	52,113,854 ¹	3,174,454	55,288,308 ¹				
1955	58,140,113 ¹	3,192,045	61,332,158 ¹				
1956 - Total	64,543,948 ¹	4,289,609	68,833,557 ¹				
January ,.....	5,247,829	380,562	5,628,391	n.a.	n.a.	n.a.	n.a.
February	4,994,013	367,204	5,361,217	"	"	"	"
March	5,226,788	378,686	5,605,474	"	"	"	"
April	5,163,158	292,440	5,455,598	"	"	"	"
May	5,544,701	263,270	5,807,971	"	"	"	"
June	5,329,027	239,164	5,568,191	"	"	"	"
July	5,259,887	274,847	5,534,734	"	"	"	"
August	5,363,505	313,487	5,676,992	"	"	"	"
September	5,381,964	346,895	5,728,859	"	"	"	"
October	5,752,508	426,817	6,179,325	"	"	"	"
November	5,537,637	488,369	6,026,006	"	"	"	"
December	5,683,941	518,026	6,201,967	"	"	"	"

1. Revised.
2. Historical data to be shown in subsequent monthly reports