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ELECTRIC POWER STATISTICS (Central Electric Stations)

January, 1957

This report is the first of a revised monthly series on electric power statistics 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 with "utilities" 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". There is no change in concept involved in this classification, the revised terminology being considered more precise.

In order to establish historical continuity, statistics are being compiled on the new basis back to 1949. This report shows net generation statistics only back to 1954 for utilities by province. Subsequent reports, however, will include earlier years for both utilities and industry where feasible.

N.B. FOR COMPARATIVE PURPOSES JANUARY, 1957 STATISTICS HAVE BEEN PROVIDED AT THE END OF THIS REPORT ON THE PREVIOUS "CENTRAL ELECTRIC STATIONS" BASIS.

Total net generation in Canada in January of this year amounted to 8,106,951,000 kwh. of which 6,295,722,000 kwh. was produced by utilities and 1,811,209,000 kwh. by industrial firms. The amount produced by utilities compares with the 5,628,391,000 kwh. produced in January, 1956. (See table on net generation 1949-56). Quebec generated the greatest amount of electrical energy in January, producing 3,427,958,000 kwh. Total net generation of other provinces in order of importance follows: Ontario (2,605,735,000 kwh.); British Columbia (999,756,000); Manitoba (309,907,000); Alberta (221,726,000); Saskatchewan (157,247,000); Nova Scotia (137,913,000); Newfoundland (123,492,000); New Brunswick (108,936,000); Yukon and Northwest Territories (9,091,000); and Prince Edward Island (5,170,000).

Total imports of electric energy from the United States equalled 63,751,000 kwh. in January, while 350,610,000 kwh. was exported, leaving 7,820,072,000 kwh. as the total available for disposal in Canada. Of this, 120,507,000 kwh. was used in electric boilers.

Total net generation by utilities in Canada increased 12.2% to 68,774,567,000 kwh. in 1956 from 61,298,894,000 in 1955, as compared with a 10.9 per cent increase in 1955 over 1954. Of the total production in 1956 64,484,958,000 or 93.8 per cent was generated by hydro while the balance was generated thermally. This compares with 58,107,050,000 kwh. or 94.8 per cent generated by hydro in 1955 and 52,103,384,000 kwh. or 94.3 per cent in 1954.

Prepared in the Transportation and Public Utilities Section.

8504-509-17

Electric Power Statistics

Month of January, 1957

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
		(Thousand kwh.)		
Generated by:				
Utilities - Hydro	5,662,916	90,304	-	47,244
- Thermal	632,830	342	5,170	77,744
- Total	6,295,746	90,646	5,170	124,988
Industry - Hydro	1,656,478	28,020	-	2,866
- Thermal	154,731	4,826	-	10,059
- Total	1,811,209	32,846	-	12,925
Total net generated	8,106,955	123,492	5,170	137,913
Energy imported:				
From other provinces	xxx	-	-	-
From United States	63,751	-	-	-
Total	63,751	-	-	-
Energy exported:				
To other provinces	xxx	4,458	-	846
To United States - primary	106,302	-	-	-
- secondary	244,308	-	-	-
Total	350,610	4,458	-	846
Total available for disposal in Canada	7,820,096	119,034	5,170	137,067
(includes interruptable and at will energy)				
Used in electric boilers	120,507	12,310	-	-

Cumulative totals, January -

Generated by:				
Utilities - Hydro				
- Thermal				
- Total				
Industry - Hydro				
- Thermal				
- Total				
Total net generated				
Energy imported:				
From other provinces				
From United States				
Total				
Energy exported:				
To other provinces				
To United States - primary				
- secondary				
Total				
Total available for disposal in Canada				
(includes interruptable and at will energy)				
Used in electric boilers				

Cumulative totals, January -

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Electric Power Statistics

Month of January, 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	261,514	252,260	8,106,931	63,751	350,610	7,820,072
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
Total						

Month	Net generation						
	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
				(Thousand kwh.)			
January	5,662,916	632,806	6,295,722	1,655,728	155,481	1,811,209	8,106,931
February							
March							
April							
May							
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	1	1	1	1	1	1	1
1952							
1953							
1954	52,103,384	3,174,454	55,277,838				
1955	58,107,050	3,192,045	61,299,095				
1956 - Total	64,484,958	4,289,767	68,774,725				
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 Historical data to be shown in subsequent monthly reports.

Electric Power Statistics

Month of January, 1957

Net generation, 1949-1956

NEWFOUNDLAND

Year and month	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
				(Thousand kwh.)			
1949							
1950							
1951	1	1	1	1	1	1	1
1952							
1953							
1954	191,357	1,106	192,463				
1955	614,400	1,501	615,901				
1956 - Total	998,825	2,418	1,001,243				
January	82,940	164	83,104	n.a.	n.a.	n.a.	n.a.
February	85,788	145	85,933	"	"	"	"
March	80,247	144	80,391	"	"	"	"
April	89,691	132	89,823	"	"	"	"
May	88,680	129	88,809	"	"	"	"
June	82,605	119	82,724	"	"	"	"
July	79,868	209	80,077	"	"	"	"
August	87,090	159	87,249	"	"	"	"
September	83,625	433	84,058	"	"	"	"
October	81,544	232	81,776	"	"	"	"
November	77,114	290	77,404	"	"	"	"
December	79,633	262	79,895	"	"	"	"

PRINCE EDWARD ISLAND

1949							
1950							
1951	1	1	1	1	1	1	1
1952							
1953							
1954	152	41,868	42,020				
1955	43	45,849	45,892				
1956 - Total	-	49,869	49,869				
January	-	3,546	3,546	n.a.	n.a.	n.a.	n.a.
February	-	3,476	3,476	"	"	"	"
March	-	3,862	3,862	"	"	"	"
April	-	3,708	3,708	"	"	"	"
May	-	3,862	3,862	"	"	"	"
June	-	3,765	3,765	"	"	"	"
July	-	3,967	3,967	"	"	"	"
August	-	5,129	5,129	"	"	"	"
September	-	4,119	4,119	"	"	"	"
October	-	4,506	4,506	"	"	"	"
November	-	4,885	4,885	"	"	"	"
December	-	5,044	5,044	"	"	"	"

NOVA SCOTIA

1949							
1950							
1951	1	1	1	1	1	1	1
1952							
1953							
1954	538,236	535,735	1,073,971				
1955	481,571	700,529	1,182,100				
1956 - Total	546,214	760,409	1,306,623				
January	51,655	60,391	112,046	n.a.	n.a.	n.a.	n.a.
February	52,099	53,911	106,010	"	"	"	"
March	56,350	55,569	111,919	"	"	"	"
April	56,075	48,716	104,791	"	"	"	"
May	55,382	50,217	105,599	"	"	"	"
June	45,898	57,100	102,998	"	"	"	"
July	31,137	69,637	100,774	"	"	"	"
August	36,441	68,922	105,363	"	"	"	"
September	34,369	70,078	104,447	"	"	"	"
October	36,161	79,390	115,551	"	"	"	"
November	38,723	77,454	116,177	"	"	"	"
December	51,924	69,024	120,948	"	"	"	"

Electric Power Statistics

Month of January, 1957

Net generation, 1949-1956

NEW BRUNSWICK

Year and month	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
				(Thousand kwh.)			
1949							
1950							
1951	1	1	1	1	1	1	1
1952							
1953							
1954	647,865	195,417	843,282				
1955	517,128	302,667	819,795				
1956 - Total	458,180	395,507	853,687				
January	27,443	30,460	57,903	n.a.	n.a.	n.a.	n.a.
February	24,578	34,347	58,925	"	"	"	"
March	21,886	39,484	61,370	"	"	"	"
April	48,000	23,309	71,309	"	"	"	"
May	60,785	16,128	76,913	"	"	"	"
June	54,606	19,896	74,502	"	"	"	"
July	44,671	31,961	76,632	"	"	"	"
August	37,789	36,105	73,894	"	"	"	"
September	31,150	36,854	68,004	"	"	"	"
October	38,769	40,487	79,256	"	"	"	"
November	33,980	41,880	75,860	"	"	"	"
December	34,523	44,596	79,119	"	"	"	"

QUEBEC

1949							
1950							
1951	1	1	1	1	1	1	1
1952							
1953							
1954	24,285,121	11,789	24,296,910				
1955	24,370,991	13,176	24,384,167				
1956 - Total	27,139,438	4,329	27,143,767				
January	2,167,248	1,028	2,168,276	n.a.	n.a.	n.a.	n.a.
February	2,096,408	692	2,097,100	"	"	"	"
March	2,195,153	893	2,196,046	"	"	"	"
April	2,118,777	264	2,119,041	"	"	"	"
May	2,291,169	54	2,291,223	"	"	"	"
June	2,217,605	40	2,217,645	"	"	"	"
July	2,195,257	66	2,195,323	"	"	"	"
August	2,317,896	92	2,317,988	"	"	"	"
September	2,285,352	42	2,285,394	"	"	"	"
October	2,431,313	193	2,431,506	"	"	"	"
November	2,377,558	658	2,378,216	"	"	"	"
December	2,445,702	307	2,446,009	"	"	"	"

ONTARIO

1949							
1950							
1951	1	1	1	1	1	1	1
1952							
1953							
1954	18,785,096	962,903	19,747,999				
1955	23,722,368	416,200	24,138,568				
1956 - Total	26,393,916	956,922	27,350,838				
January	2,105,233	93,453	2,198,686	n.a.	n.a.	n.a.	n.a.
February	1,950,095	99,264	2,049,359	"	"	"	"
March	2,074,800	101,320	2,176,120	"	"	"	"
April	2,121,035	58,998	2,180,033	"	"	"	"
May	2,335,975	27,601	2,363,576	"	"	"	"
June	2,260,606	20,128	2,280,734	"	"	"	"
July	2,266,785	29,781	2,296,566	"	"	"	"
August	2,199,794	48,867	2,248,661	"	"	"	"
September	2,239,995	75,756	2,315,751	"	"	"	"
October	2,362,627	115,472	2,478,099	"	"	"	"
November	2,221,995	146,094	2,368,089	"	"	"	"
December	2,254,976	140,188	2,395,164	"	"	"	"

1 Historical data to be shown in subsequent monthly reports.

Electric Power Statistics

Month of January, 1957

Net generation, 1949-1956

MANITOBA

Year and month	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
				(Thousand kwh.)			
1949							
1950							
1951	1	1	1	1	1	1	1
1952							
1953							
1954	2,933,314	3,890	2,937,204				
1955	3,100,691	1,132	3,101,823				
1956 - Total	3,331,119	375	3,331,494				
January	312,654	13	312,667	n.a.	n.a.	n.a.	n.a.
February	299,946	173	300,119	"	"	"	"
March	314,070	-	314,070	"	"	"	"
April	285,778	-	285,778	"	"	"	"
May	283,220	-	283,220	"	"	"	"
June	231,477	2	231,479	"	"	"	"
July	216,147	-	216,147	"	"	"	"
August	241,111	-	241,111	"	"	"	"
September	261,886	-	261,886	"	"	"	"
October	285,782	118	285,900	"	"	"	"
November	290,962	-	290,962	"	"	"	"
December	308,086	69	308,155	"	"	"	"

SASKATCHEWAN

1949							
1950							
1951	1	1	1	1	1	1	1
1952							
1953							
1954	559,300	721,173	1,280,473				
1955	569,401	839,817	1,409,218				
1956 - Total	555,465	981,482	1,536,947				
January	48,949	89,203	138,152	n.a.	n.a.	n.a.	n.a.
February	46,817	81,069	127,886	"	"	"	"
March	48,540	81,977	130,517	"	"	"	"
April	46,606	74,796	121,402	"	"	"	"
May	46,179	75,649	121,828	"	"	"	"
June	41,562	72,886	114,448	"	"	"	"
July	43,255	72,581	115,836	"	"	"	"
August	45,283	77,321	122,604	"	"	"	"
September	43,978	77,674	121,652	"	"	"	"
October	47,002	85,607	132,609	"	"	"	"
November	47,954	90,185	138,139	"	"	"	"
December	49,340	102,534	151,874	"	"	"	"

ALBERTA

1949							
1950							
1951	1	1	1	1	1	1	1
1952							
1953							
1954	854,896	629,940	1,484,836				
1955	932,682	773,864	1,706,546				
1956 - Total	975,357	1,020,789	1,996,146				
January	96,774	90,050	186,824	n.a.	n.a.	n.a.	n.a.
February	88,739	81,576	170,315	"	"	"	"
March	88,139	80,640	168,779	"	"	"	"
April	74,059	75,870	149,929	"	"	"	"
May	66,082	83,214	149,296	"	"	"	"
June	90,490	57,737	148,227	"	"	"	"
July	90,226	59,974	150,200	"	"	"	"
August	89,631	69,742	159,373	"	"	"	"
September	85,851	73,054	158,905	"	"	"	"
October	81,609	90,320	171,929	"	"	"	"
November	63,524	115,297	178,821	"	"	"	"
December	60,233	143,315	203,548	"	"	"	"

Electric Power Statistics

Month of January, 1957

Net generation, 1949-1956

BRITISH COLUMBIA

Year and month	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
				(Thousand kwh.)			
1949							
1950							
1951	1	1	1	1	1	1	1
1952							
1953							
1954	3,308,047	70,633	3,378,680				
1955	3,740,210	96,340	3,836,550				
1956 - Total	4,029,231	116,441	4,145,672				
January	349,413	12,148	361,561	n.a.	n.a.	n.a.	n.a.
February	344,387	12,456	356,843	"	"	"	"
March	342,315	14,705	357,020	"	"	"	"
April	318,274	6,565	324,839	"	"	"	"
May	312,527	6,335	318,862	"	"	"	"
June	300,254	7,408	307,662	"	"	"	"
July	288,685	6,587	295,272	"	"	"	"
August	303,990	7,061	311,051	"	"	"	"
September	311,644	8,789	320,433	"	"	"	"
October	383,146	10,386	393,532	"	"	"	"
November	380,616	11,488	392,104	"	"	"	"
December	393,980	12,513	406,493	"	"	"	"

YUKON AND NORTHWEST TERRITORIES

1949							
1950							
1951	1	1	1	1	1	1	1
1952							
1953							
1954	-	-	-				
1955	57,565	970	58,535				
1956 - Total	57,213	1,226	58,439				
January	5,520	106	5,626	n.a.	n.a.	n.a.	n.a.
February	5,156	95	5,251	"	"	"	"
March	5,288	92	5,380	"	"	"	"
April	4,863	82	4,945	"	"	"	"
May	4,702	81	4,783	"	"	"	"
June	3,924	83	4,007	"	"	"	"
July	3,856	84	3,940	"	"	"	"
August	4,480	89	4,569	"	"	"	"
September	4,114	96	4,210	"	"	"	"
October	4,555	106	4,661	"	"	"	"
November	5,211	138	5,349	"	"	"	"
December	5,544	174	5,718	"	"	"	"

1 Historical data to be shown in subsequent monthly reports.

Central Electric Stations

Month of January, 1957

(Data Compiled on Old Basis for Comparative Purposes Only)

(Thousand kwh.)	CANADA	New- foundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
A. Production - Hydraulic	6,844,811	91,567	-	47,244	23,882	3,338,813
B. Thermal	611,955	342	5,170	76,985	53,574	480
C. Total	7,456,766	91,909	5,170	124,229	77,456	3,339,293
D. Primary .	7,124,189	81,106	5,170	124,229	77,456	3,287,195
E. Secondary	332,577	10,803	-	-	-	52,098
F. Receipts - from other provinces ..	-	-	-	-	2,106	450
G. Deliveries - to other provinces	-	-	-	846	-	285,344
H. Imports - from U.S.A. Total	63,751	-	-	-	141	37
I. Primary .	63,751	-	-	-	141	37
J. Secondary	-	-	-	-	-	-
K. Exports - to U.S.A. Total	350,610	-	-	-	2	49,148
L. Primary .	106,861	-	-	-	2	44,676
M. Secondary	243,749	-	-	-	-	4,472
N. Consumption (C+F+H-G-K) Total	7,169,907	91,909	5,170	123,383	79,701	3,005,288
O. Primary .	7,081,079	81,106	5,170	123,383	79,701	2,957,662
P. Secondary	88,828	10,803	-	-	-	47,626
	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon and N.W.T.
A. Production - Hydraulic	2,285,666	306,609	75,347	65,172	602,130	8,381
B. Thermal	229,227	1,278	81,900	147,347	15,478	174
C. Total	2,514,893	307,887	157,247	212,519	617,608	8,555
D. Primary .	2,273,774	280,538	157,247	212,519	617,608	7,347
E. Secondary	241,119	27,349	-	-	-	1,208
F. Receipts - from other provinces ..	291,176	49,788	227	1,623	1,140	-
G. Deliveries - to other provinces	519	7,319	49,719	1,140	1,623	-
H. Imports - from U.S.A. Total	59,775	-	-	-	3,798	-
I. Primary .	59,775	-	-	-	3,798	-
J. Secondary	-	-	-	-	-	-
K. Exports - to U.S.A. Total	300,821	2	-	-	637	-
L. Primary .	61,544	2	-	-	637	-
M. Secondary	239,277	-	-	-	-	-
N. Consumption (C+F+H-G-K) Total	2,564,504	350,354	107,755	213,002	620,286	8,555
O. Primary .	2,562,662	323,005	107,755	213,002	620,286	7,347
P. Secondary	1,842	27,349	-	-	-	1,208

Daily average of total production 240,541
Daily average of primary consumption 228,422

Seasonally adjusted index number for total production 330.2
Seasonally adjusted index number for primary consumption 458.5

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