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ELECTRIC POWER STATISTICS

(Central Electric Stations)

Price: \$1.00 per year

August, 1957

This report is the eighth 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 August, 1957, amounted to 6,919,176,000 kwh of which 5,615,756,000 kwh were produced by utilities and 1,303,420,000 kwh by industrial firms. Generation by utilities decreased 4 per cent from the July total of 5,852,370,000 kwh while the amount produced by industries rose .8 per cent from 1,292,997,000 kwh resulting in an overall decrease of 3.2 per cent from the July total of 7,145,367,000 kwh.

Hydro plants were responsible for 91.7 per cent of August generation, the balance being generated by thermal plants. At 6,342,275,000 kwh, hydro generation was down 4.8 per cent from the previous month. Thermal generation, on the other hand, increased 20 per cent to 576,901,000 kwh.

Quebec continued to lead the provinces in the production of electric energy with an August total of 2,764,000,000 kwh. Totals for other provinces and the territories in order of production are as follows: Ontario - 2,385,042,000 kwh; British Columbia - 845,606,000 kwh; Manitoba - 258,030,000 kwh; Alberta - 181,961,000 kwh; Saskatchewan - 131,838,000 kwh; Nova Scotia - 119,711,000 kwh; New Brunswick - 115,095,000 kwh; Newfoundland - 102,952,000 kwh; Yukon and Northwest Territories - 10,201,000 kwh and Prince Edward Island - 4,740,000 kwh.

Total imports of electric energy from the United States decreased to 98,317,000 kwh from 113,200,000 kwh in July, while exports to the United States fell 34.6 per cent to 346,829,000 kwh. Total amount of electric energy available for disposal in Canada in August was 6,670,664,000 kwh or .9 per cent less than that available in July; of this amount, 164,316,000 kwh were used in electric boilers, a decrease of 24.2 per cent from the revised figure of 216,887,000 kwh last month.

Prepared in the Transportation and Public Utilities Section.

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Electric Power Statistics

August, 1957

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
		(Thousand kwh.)		
Generated by:				
Utilities - Hydro	5,177,785	67,264	-	28,238
- Thermal	437,971	4,769	4,740	79,142
- Total	5,615,756	72,033	4,740	107,380
Industry - Hydro	1,164,490	27,996	-	2,483
- Thermal	138,930	2,923	-	9,848
- Total	1,303,420	30,919	-	12,331
Total net generated	6,919,176	102,952	4,740	119,711
Energy imported:				
From other provinces	xxx	-	-	-
From United States	98,317	-	-	-
Total	98,317	-	-	-
Energy exported:				
To other provinces	xxx	3,447	-	671
To United States - primary	105,864	-	-	-
- secondary	240,965	-	-	-
Total	346,829	3,447	-	671
Total available for disposal in Canada	6,670,664	99,505	4,740	119,040
(includes interruptable and at will energy and energy used in electric boilers)				
Used in electric boilers	164,316	2,285	-	-

Cumulative totals, January - August

Generated by:				
Utilities - Hydro	43,265,064	630,739	-	337,679
- Thermal	3,651,193	8,669	36,300	538,777
- Total	46,916,257	639,408	36,300	876,456
Industry - Hydro	11,155,922	223,138	-	21,633
- Thermal	1,188,330	28,138	-	75,515
- Total	12,344,252	251,276	-	97,148
Total net generated	59,260,509	890,684	36,300	973,604
Energy imported:				
From other provinces	xxx	-	-	-
From United States	514,685	-	-	-
Total	514,685	-	-	-
Energy exported:				
To other provinces	xxx	29,523	-	5,600
To United States - primary	855,041	-	-	-
- secondary	2,376,822	-	-	-
Total	3,231,863	29,523	-	5,600
Total available for disposal in Canada	56,543,331	861,161	36,300	968,004
(includes interruptable and at will energy and energy used in electric boilers)				
Used in electric boilers	1,342,169	63,736	-	-

Electric Power Statistics

August, 1957

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
(Thousand kwh.)							
43,535	2,236,707	2,132,121	257,992	40,717	58,728	307,882	4,601
38,348	35	96,109	38	88,751	116,234	9,656	149
81,883	2,236,742	2,228,230	258,030	129,468	174,962	317,538	4,750
5,460	510,542	111,270	-	-	-	501,288	5,451
27,752	16,716	45,542	-	2,370	6,999	26,780	-
33,212	527,258	156,812	-	2,370	6,999	528,068	5,451
115,095	2,764,000	2,385,042	258,030	131,838	181,961	845,606	10,201
1,747	4,379	446,619	40,746	147	643	83	-
481	26	23,394	-	-	-	74,416	-
2,228	4,405	470,013	40,746	147	643	74,499	-
-	428,395	961	19,447	40,717	83	643	-
1,536	447	103,723	2	-	-	156	-
136	4,287	236,508	-	-	-	34	-
1,672	433,129	341,192	19,449	40,717	83	833	-
115,651	2,335,286	2,513,853	279,327	91,268	182,521	919,272	10,201
-	109,201	17,501	33,526	-	-	1,057	746

Cumulative totals, January - August

323,868	18,244,121	17,930,473	2,208,327	356,989	533,986	2,658,581	40,301
306,064	1,103	1,005,222	1,453	723,090	938,717	90,601	1,197
629,932	18,245,224	18,935,695	2,209,780	1,080,079	1,472,703	2,749,182	41,498
47,595	5,790,335	921,743	-	-	-	4,117,134	34,344
213,789	128,632	402,511	-	18,372	53,404	267,969	-
261,384	5,918,967	1,324,254	-	18,372	53,404	4,385,103	34,344
891,316	24,164,191	20,259,949	2,209,780	1,098,451	1,526,107	7,134,285	75,842
14,746	45,438	3,471,899	366,358	1,478	13,708	2,976	-
4,082	264	193,917	-	-	-	316,422	-
18,828	45,702	3,665,816	366,358	1,478	13,708	319,398	-
-	3,370,776	16,407	111,747	365,876	2,976	13,708	-
16,707	3,357	834,213	13	-	-	751	-
4,318	28,433	2,340,735	-	-	-	3,336	-
21,025	3,402,566	3,191,355	111,760	365,876	2,976	17,795	-
889,119	20,807,337	20,734,410	2,464,378	734,053	1,536,839	7,435,888	75,842
117	807,762	134,462	264,698	-	-	63,894	7,500



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Electric Power Statistics

August, 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	252,397	240,743	7,824,311	19,464	389,110	7,454,665
April	250,799	237,453	7,523,966	27,701	428,069	7,123,598
May	245,734	233,750	7,617,749	64,733	436,229	7,246,253
June	226,596	216,416	6,797,884	95,110	400,519	6,492,475
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						
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	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							
October							
November							
December							

* Revised.

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	"	"	"	"