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ELECTRIC POWER STATISTICS

March, 1959

Monthly electric power statistics have been published on the present basis since January 1957. The "Central Electric Stations" series discontinued at that time dealt exclusively with power produced for sale, whether by utilities or by industrial establishments servicing adjoining communities or selling small amounts of power to regular customers. Specifically excluded from the "Central Electric Stations" report was power produced by industry for own use. The revised series which includes this production is therefore a much more reliable economic indicator.

Although the revised series embraces both power produced for own use and power produced for sale it does not reflect the entire production of electric energy in Canada. In order to expedite collection and compilation of returns only firms which generate at least 10 million kilowatt hours per annum are asked to report monthly statistics. These firms, however, were found to have accounted for 99.1 per cent of total production in 1957.

Net generation as defined for the purpose of this series means total output less the amount used in station service. The amount made available in Canada is arrived at by deducting exports to the United States from the sum total of net generation and imports. Energy produced for use in electric boilers, which is the only form of secondary consumption that can be isolated for all provinces, is deducted from energy made available in order to produce a figure more closely approximating primary consumption.

Total net generation of electric energy in Canada by firms which produce 10 million kilowatt hours or more per annum amounted to 8,812,997 megawatt hours in March 1959, an increase of 3.8 per cent over the 8,486,697 mwh generated a year ago. Generation by utilities rose 5.9 per cent to 6,997,524 mwh while the industrial total declined 3.5 per cent to 1,815,473 mwh.

The amount of electric energy made available for use in Canada in March increased 5.7 per cent to 8,514,415 mwh from 8,057,495 mwh in 1958. Imports from the United States rose 228.6 per cent to 41,070 mwh while exports fell 23.1 per cent to 339,652 mwh. Production of electric energy for use in electric boilers was reported at 606,966 mwh compared with 606,825 in March 1958 with the result that the amount shown as available after deduction for use in electric boilers recorded an increase of 6.1 per cent to 7,907,449 mwh from 7,450,670.

Net generation in the first three months of the year totalled 25,685,621 mwh compared with 24,846,913 mwh in the comparable period of 1958, a gain of 838,708 mwh or 3.4 per cent. Energy made available less the amount used in electric boilers rose 5.5 per cent to 23,345,027 mwh from 22,130,242.

Prepared in the Transportation and Public Utilities Section

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Electric Energy Made Available

March, 1959

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
	(Thousand kwh.)			
Net generation				
Utilities:				
Hydro	6,511,897	85,732	-	51,323
Thermal	485,627	2,615	5,838	74,865
Total	6,997,524	88,347	5,838	126,188
Industry:				
Hydro	1,634,633	24,718	-	3,178
Thermal	180,840	3,660	-	9,858
Total	1,815,473	28,378	-	13,036
Total net generation	8,812,997	116,725	5,838	139,224
Energy imported:				
From other provinces	xxx	-	-	-
From United States	41,070	-	-	-
Total	41,070	-	-	-
Energy exported:				
To other provinces	xxx	4,702	-	1,214
To United States - primary	106,675	-	-	-
secondary	232,977	-	-	-
Total	339,652	4,702	-	1,214
Energy made available in Canada ¹	8,514,415	112,023	5,838	138,010
Amount produced for use in electric boilers	606,966	15,718	-	-
Energy made available less amount produced for boilers ...	7,907,449	96,305	5,838	138,010

Cumulative totals, January - March, 1959

Net generation				
Utilities:				
Hydro	18,840,000	247,371	-	150,358
Thermal	1,640,774	10,150	17,755	227,874
Total	20,480,774	257,521	17,755	378,230
Industry:				
Hydro	4,670,260	76,786	-	9,311
Thermal	534,587	8,433	-	29,466
Total	5,204,847	85,219	-	38,777
Total net generation	25,685,621	342,740	17,755	417,007
Energy imported:				
From other provinces	xxx	-	-	-
From United States	120,577	-	-	-
Total	120,577	-	-	-
Energy exported:				
To other provinces	xxx	13,419	-	3,392
To United States - primary	301,996	-	-	-
secondary	560,731	-	-	-
Total	862,727	13,419	-	3,392
Energy made available in Canada ¹	24,943,471	329,321	17,755	413,615
Amount produced for use in electric boilers	1,598,444	47,561	-	-
Energy made available less amount produced for boilers ...	23,345,027	281,760	17,755	413,615

March, 1958

Total net generation	8,486,697	121,959	5,155	131,657
Total energy imported	12,500	1,104	-	-
Total energy exported	441,702	3,915	-	869
Total made available in Canada ¹	8,057,495	119,148	5,155	130,788
Produced for use in electric boilers	606,825	17,570	-	-
Total made available less amount produced for boilers	7,450,670	101,578	5,155	130,788

January - March, 1958

Total net generation	24,846,913	359,147	15,485	395,925
Total energy imported	56,946	3,050	-	-
Total energy exported	1,070,084	11,869	-	2,602
Total made available in Canada ¹	23,833,775	350,328	15,485	393,323
Produced for use in electric boilers	1,703,533	47,512	-	-
Total made available less amount produced for boilers	22,130,242	302,816	15,485	393,323

1. Includes interruptable and at will energy and energy used in electric boilers.

Electric Energy Made Available
March, 1959

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
(Thousand kwh.)							
37,708	2,868,703	2,537,097	316,818	49,682	52,683	503,526	8,625
50,415	5,129	32,619	1,778	117,189	179,795	15,112	272
88,123	2,873,832	2,569,716	318,596	166,871	232,478	518,638	8,897
2,023	958,719	119,561	3,331	1,828	-	517,853	3,422
38,736	15,753	50,028	10	6,090	20,156	36,549	-
40,759	974,472	169,589	3,341	7,918	20,156	554,402	3,422
128,882	3,848,304	2,739,305	321,937	174,789	252,634	1,073,040	12,319
1,885	6,222	526,237	58,047	652	1,491	141	-
112	50	39,312	-	-	-	1,596	-
1,997	6,272	565,549	58,047	652	1,491	1,737	-
-	526,908	7,598	230	51,969	563	1,491	-
1,290	42,642	62,636	3	-	-	104	-
5,296	4,373	222,050	-	-	-	1,258	-
6,586	573,923	292,284	233	51,969	563	2,853	-
124,293	3,280,653	3,012,570	379,751	123,472	253,562	1,071,924	12,319
-	486,806	40,267	52,519	-	-	9,300	2,356
124,293	2,793,847	2,972,303	327,232	123,472	253,562	1,062,624	9,963

Cumulative totals, January - March, 1959

132,558	8,292,800	7,208,222	925,126	143,979	211,093	1,502,973	25,522
136,231	16,302	246,796	24,329	377,950	533,715	48,824	848
268,789	8,309,102	7,455,018	949,455	521,929	744,808	1,551,797	26,370
6,745	2,698,640	340,325	9,894	5,327	-	1,513,106	10,126
112,929	46,982	153,874	11	18,432	58,017	106,443	-
119,674	2,745,622	494,199	9,905	23,759	58,017	1,619,549	10,126
388,463	11,054,724	7,949,217	959,360	545,688	802,825	3,171,346	36,496
5,058	17,835	1,514,261	160,262	2,291	4,530	1,570	-
357	156	116,472	-	-	-	3,592	-
5,415	17,991	1,630,733	160,262	2,291	4,530	5,162	-
-	1,515,926	13,390	830	151,288	3,032	4,530	-
5,879	116,856	178,955	9	-	-	297	-
16,767	13,756	527,476	-	-	-	2,732	-
22,646	1,646,538	719,821	839	151,288	3,032	7,559	-
371,232	9,426,177	8,860,129	1,118,783	396,691	804,323	3,168,949	36,496
-	1,287,765	117,992	102,870	-	-	36,027	6,229
371,232	8,138,412	8,742,137	1,015,913	396,691	804,323	3,132,922	30,267
124,016	3,747,494	2,619,695	309,191	163,742	222,761	1,030,880	10,147
2,194	5,075	552,783	52,692	215	558	1,262	-
9,717	570,092	393,052	13,167	52,388	12	1,873	-
116,493	3,182,477	2,779,426	348,716	111,569	223,307	1,030,269	10,147
9	477,766	33,415	64,086	-	-	12,026	1,953
116,484	2,704,711	2,746,011	284,630	111,569	223,307	1,018,243	8,194
359,883	11,046,759	7,685,243	947,117	493,516	671,177	2,833,285	29,376
6,608	15,611	1,519,483	157,549	724	2,034	7,774	-
30,114	1,562,752	913,649	41,361	157,111	1,421	5,092	-
346,377	9,499,618	8,291,077	1,063,305	337,129	671,790	2,835,967	29,376
470	1,376,932	73,682	166,233	-	-	33,253	5,451
345,907	8,122,686	8,217,395	897,072	337,129	671,790	2,802,714	23,925



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Electric Energy Made Available

January - March, 1959

Month	Total net generation	Imports from United States	Exports to United States	Total made available in Canada	Total made available less amount produced for use in boilers	Daily Average	
						Total net generation	Total made available
(Thousand kwh.)							
January	* 8,776,277	39,253	275,623	*8,539,907	*8,040,986	* 283,106	* 275,481
February	* 8,096,347	40,254	247,452	*7,889,149	*7,396,592	* 289,155	* 281,755
March	8,812,997	41,070	339,652	8,514,415	7,907,449	284,290	274,658
April							
May							
June							
July							
August							
September							
October							
November							
December							
Total							

Net generation, 1949-1959
CANADA

Year and month	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
(Thousand kwh.)							
1949	35,783,737	1,390,562	37,174,299	n.a.	n.a.	12,889,749	50,064,048
1950	39,342,277	1,647,557	40,989,834	"	"	13,428,593	54,418,427
1951	45,819,227	1,732,652	47,551,879	"	"	13,369,527	60,921,406
1952	49,156,895	2,222,115	51,379,010	"	"	14,086,950	65,465,960
1953	49,160,361	3,797,345	52,957,706	"	"	16,400,824	69,358,530
1954	51,713,904	3,178,434	54,892,338	"	"	17,547,555	72,439,893
1955	57,996,293	3,197,153	61,193,446	"	"	18,381,161	79,574,607
1956	64,014,072	4,292,898	68,306,970	"	"	19,119,968	87,426,938
1957	65,817,043	5,572,995	71,390,038	17,155,908	1,702,865	18,858,773	90,248,811
1958 - Total	70,838,966	4,690,734	75,529,700	19,409,459	1,804,558	21,214,017	96,743,717
January	6,294,539	437,663	6,732,202	1,699,573	132,663	1,832,236	8,564,438
February	5,688,336	427,520	6,115,856	1,541,393	138,529	1,679,922	7,795,778
March	6,217,035	388,804	6,605,839	1,725,354	155,504	1,880,858	8,486,697
April	5,811,395	328,608	6,140,003	1,661,061	149,376	1,810,437	7,950,440
May	5,832,160	335,807	6,167,967	1,644,054	156,414	1,800,468	7,968,435
June	5,473,119	304,447	5,777,566	1,541,104	147,571	1,688,675	7,466,241
July	5,633,549	314,498	5,948,047	1,576,529	141,527	1,718,056	7,666,103
August	5,524,523	370,450	5,894,973	1,533,121	150,440	1,683,561	7,578,534
September	5,437,419	456,152	5,893,571	1,571,962	151,425	1,723,387	7,616,958
October	6,112,363	413,432	6,525,795	1,659,406	159,154	1,818,560	8,344,355
November	6,289,767	399,863	6,689,630	1,614,899	159,266	1,774,165	8,463,795
December	6,524,761	513,490	7,038,251	1,641,003	162,689	1,803,692	8,841,943
1959							
January	* 6,411,494	*612,157	*7,023,651	1,573,003	179,623	1,752,626	*8,776,277
February	* 5,916,609	*542,990	*6,459,599	1,462,624	174,124	1,636,748	*8,096,347
March	6,511,897	485,627	6,997,524	1,634,633	180,840	1,815,473	8,812,997
April							
May							
June							
July							
August							
September							
October							
November							
December							