



DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Hon. Gordon Churchill, Minister of Trade and Commerce

Vol. 28 No. 2

Price: \$1.00 per year

ELECTRIC POWER STATISTICS

February, 1960

Monthly electric power statistics are designed to provide current information on the production and consumption of electric energy in Canada. In order to expedite the collection and compilation of returns, the series is confined to firms which generate a minimum of 10 million kilowatt hours per annum. These firms, however, accounted for 99.3 per cent of total production in 1958.

Prior to 1957, statistics in the monthly series related only to power produced for sale. This included all of the energy produced by electric utilities but only a comparatively small amount of the generation of industrial establishments which are defined as concerns which generate electricity primarily for use in own plant. Since January 1957 when industrial establishments commenced reporting their entire production, the industrial group has accounted for approximately 21 per cent of the total production of electric energy in Canada.

Early in 1957, industrial establishments were asked to provide generation figures on the revised basis for the period 1949-1956. In some instances estimates had to be made. The results for Canada and the provinces were published as a supplement to the June 1957 report. The Supplement issued with the January 1960 report brings the provincial historical tables up to date and in line with Canada totals which are shown regularly in the monthly report.

In the electric power series, net generation is defined as total generation less the amount used in station service. Net exports to the United States are deducted from total net generation in order to arrive at the amount of electric energy made available for use in Canada. Some of the amount made available is sold as surplus or secondary power and used, for the most part, in electric boilers. As this is the only form of secondary consumption that can readily be ascertained for all provinces, energy used in electric boilers is deducted from the amount made available in order to provide a figure more closely approximating primary consumption which is recognized as the more sensitive economic indicator.

Total net generation of electric energy in Canada by firms which produce 10 million kilowatt hours or more per annum amounted to 9,429,830 megawatt hours in February 1960, a rise of 16.5 per cent over the 8,096,593 mwh. generated one year ago. Generation by utilities rose 14.5 per cent to 7,398,543 mwh. while production by industrial establishments increased 24.1 per cent to 2,031,287 mwh.

The amount of electric energy made available for use in Canada in February rose 15.3 per cent to 9,095,985 mwh. from 7,889,395 in 1959. Net exports to the United States increased 61.1 per cent with imports down 26,359 mwh. to 13,895 and exports up 100,288 mwh. to 347,740.

Electric energy used in electric boilers showed a rise of 39.9 per cent to 689,163 mwh. with the result that the amount remaining for largely non-secondary uses rose 13.7 per cent to 8,406,822 mwh. from 7,396,838.

Prepared in the Transportation and Public Utilities Section

8504-509-20

Electric Energy Made Available

February, 1960

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
(Thousand kwh.)				
Net generation				
Utilities:				
Hydro	6,933,208	93,897	-	64,809
Thermal	465,335	988	6,286	66,407
Total	7,398,543	94,885	6,286	131,216
Industry:				
Hydro	1,850,431	26,202	-	3,448
Thermal	180,856	2,413	-	8,930
Total	2,031,287	28,615	-	12,378
Total net generation	9,429,830	123,500	6,286	143,594
Energy imported:				
From other provinces	xxx	-	-	-
From United States	13,895	-	-	-
Total	13,895	-	-	-
Energy exported:				
To other provinces	xxx	3,900	-	1,364
To United States - primary	101,145	-	-	-
secondary	246,595	-	-	-
Total	347,740	3,900	-	1,364
Energy made available in Canada ¹	9,095,985	119,600	6,286	142,230
Amount used in electric boilers	689,163	13,829	-	-
Energy made available less amount used in boilers	8,406,822	105,771	6,286	142,230

Cumulative totals, January - February, 1960

Net generation				
Utilities:				
Hydro	14,254,921	189,408	-	133,048
Thermal	970,940	3,098	13,254	138,729
Total	15,225,861	192,506	13,254	271,777
Industry:				
Hydro	3,719,886	53,302	-	7,014
Thermal	368,369	5,349	-	18,094
Total	4,088,255	58,651	-	25,108
Total net generation	19,314,116	251,157	13,254	296,882
Energy imported:				
From other provinces	xxx	-	-	-
From United States	36,336	-	-	-
Total	36,336	-	-	-
Energy exported:				
To other provinces	xxx	9,017	-	2,756
To United States - primary	211,553	-	-	-
secondary	539,322	-	-	-
Total	750,875	9,017	-	2,756
Energy made available in Canada ¹	18,599,577	242,140	13,254	294,126
Amount used in electric boilers	1,393,645	28,041	-	-
Energy made available less amount used in boilers	17,205,932	214,099	13,254	294,126

February, 1959

Total net generation	8,096,593	102,918	5,642	129,435
Total energy imported	40,254	-	-	-
Total energy exported	247,452	3,750	-	1,161
Total made available in Canada ¹	7,889,395	99,168	5,642	128,274
Amount used in electric boilers	492,557	11,733	-	-
Total made available less amount used in boilers	7,396,838	87,435	5,642	128,274

January - February, 1959

Total net generation	16,872,746	226,015	11,917	277,783
Total energy imported	79,507	-	-	-
Total energy exported	523,075	8,717	-	2,178
Total made available in Canada ¹	16,429,178	217,298	11,917	275,601
Amount used in electric boilers	991,478	31,843	-	-
Total made available less amount used in boilers	15,437,700	185,455	11,917	275,601

1. Includes interruptible and at-will energy and energy used in electric boilers.

Electric Energy Made Available
February, 1960

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
(Thousand kwh.)							
68,363	3,050,243	2,682,129	318,849	49,197	84,064	513,520	8,137
33,342	1,882	14,870	7,988	133,690	181,129	17,677	1,076
101,705	3,052,125	2,696,999	326,837	182,887	265,193	531,197	9,213
3,184	1,167,536	118,391	3,731	2,721	-	522,198	3,020
38,722	14,937	50,293	-	4,530	21,142	39,889	-
41,906	1,182,473	168,684	3,731	7,251	21,142	562,087	3,020
143,611	4,234,598	2,865,683	330,568	190,138	286,335	1,093,284	12,233
2,677	5,352	559,219	68,772	732	1,446	651	-
120	52	11,732	-	-	-	1,991	-
2,797	5,404	570,951	68,772	732	1,446	2,642	-
-	560,532	18,981	332	51,243	1,051	1,446	-
3,480	39,105	58,455	-	-	-	105	-
8,294	4,734	232,100	3	-	-	1,464	-
11,774	604,371	309,536	335	51,243	1,051	3,015	-
134,634	3,635,631	3,127,098	399,005	139,627	286,730	1,092,911	12,233
-	552,077	57,195	48,346	-	-	16,086	1,630
134,634	3,083,554	3,069,903	350,659	139,627	286,730	1,076,825	10,603

Cumulative totals, January - February, 1960

153,106	6,233,894	5,517,264	660,217	101,089	185,597	1,064,148	17,153
61,782	2,333	45,687	18,623	279,000	368,936	37,263	2,235
214,888	6,236,227	5,562,951	678,840	380,089	554,533	1,101,411	19,388
7,876	2,319,642	248,555	7,486	5,611	-	1,064,071	6,329
74,017	30,707	102,471	-	9,383	42,130	86,218	-
81,893	2,350,349	351,026	7,486	14,994	42,130	1,150,289	6,329
296,781	8,586,576	5,913,977	686,326	395,083	596,663	2,251,700	25,717
5,603	12,199	1,137,810	141,412	1,426	3,270	1,210	-
233	117	26,542	-	-	-	9,444	-
5,836	12,316	1,164,352	141,412	1,426	3,270	10,654	-
-	1,140,657	39,255	701	105,339	1,935	3,270	-
7,200	81,368	122,767	-	-	-	218	-
17,711	10,785	508,009	7	-	-	2,810	-
24,911	1,232,810	670,031	708	105,339	1,935	6,298	-
277,706	7,366,082	6,408,298	827,030	291,170	597,998	2,256,056	25,717
277,706	1,099,176	114,621	117,573	-	-	30,839	3,395
277,706	6,266,906	6,293,677	709,457	291,170	597,998	2,225,217	22,322
123,633	3,481,789	2,487,247	319,577	173,017	258,423	1,003,588	11,324
1,587	5,157	522,132	47,489	819	668	1,774	-
6,450	524,692	200,549	282	47,026	1,300	1,614	-
118,770	2,962,254	2,808,830	366,784	126,810	257,791	1,003,748	11,324
-	384,463	37,578	42,028	-	-	15,012	1,743
118,770	2,577,791	2,771,252	324,756	126,810	257,791	988,736	9,581
259,581	7,206,420	5,209,912	637,423	370,899	550,011	2,098,306	24,479
3,418	11,719	1,065,184	102,215	1,639	3,039	3,425	-
16,060	1,072,615	427,537	606	99,319	2,469	4,706	-
244,939	6,145,524	5,847,559	739,032	273,219	550,581	2,097,025	24,479
-	800,959	77,725	50,351	-	-	26,727	3,873
244,939	5,344,565	5,769,834	688,681	273,219	550,581	2,070,298	20,606

Electric Energy Made Available

January - February, 1960

Month	Total net generation	Imports from United States	Exports to United States	Total made available in Canada	Total made available less amount used in boilers	Daily Average	
						Total net generation	Total made available
(Thousand kwh.)							
January	* 9,884,286	22,441	* 403,135	* 9,503,592	* 8,799,110	* 318,848	* 306,567
February	9,429,830	13,895	347,740	9,095,985	8,406,822	325,166	313,655
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							
Total							

Net generation, 1949-1960
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	64,013,966	4,292,898	68,306,864	"	"	19,119,968	87,426,832
1957	65,817,043	5,572,995	71,390,038	17,155,908	1,702,865	18,858,773	90,248,811
1958	70,838,966	4,690,734	75,529,700	19,409,459	1,804,558	21,214,017	96,743,717
1959 Total	77,251,848	5,286,315	82,538,163	19,264,444	2,040,422	21,304,866	103,843,029
January	6,411,494	612,033	7,023,527	1,573,003	179,623	1,752,626	8,776,153
February	5,916,609	543,236	6,459,845	1,462,624	174,124	1,636,748	8,096,593
March	6,511,897	486,023	6,997,920	1,634,633	180,840	1,815,473	8,813,393
April	6,503,041	378,847	6,881,888	1,565,435	162,985	1,728,420	8,610,308
May	6,610,516	378,153	6,988,669	1,586,097	163,564	1,749,661	8,738,330
June	6,196,139	335,475	6,531,614	1,594,357	163,875	1,758,232	8,289,846
July	6,003,112	340,624	6,343,736	1,594,731	146,432	1,741,163	8,084,899
August	5,969,303	394,870	6,364,173	1,583,122	160,341	1,743,463	8,107,636
September	6,083,521	432,257	6,515,778	1,535,278	168,096	1,703,374	8,219,152
October	6,676,139	481,073	7,157,212	1,685,120	189,833	1,874,953	9,032,165
November	7,032,810	450,436	7,483,246	1,666,188	176,444	1,842,632	9,325,878
December	7,337,267	453,288	7,790,555	1,783,856	174,265	1,958,121	9,748,676
1960							
January	7,321,713	* 505,605	* 7,827,318	* 1,869,455	* 187,513	* 2,056,968	* 9,884,286
February	6,933,208	465,335	7,398,543	1,850,431	180,856	2,031,287	9,429,830
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							

* Revised.