

DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA



Memorandum

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

ELECTRIC POWER STATISTICS
(Central Electric Stations)

Vol. 25 No. 11

Price: \$1.00 per year

November, 1957

This report is the eleventh 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 made available" 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 of electric energy in Canada amounted to 8,179,635,000 kwh in November, an increase of 0.1 per cent over the 8,078,679,000 kwh produced in October. Imports from the United States decreased 44.7 per cent to 56,525,000 kwh while exports rose 10.5 per cent to 424,932,000 kwh. The total amount available for use in Canada nevertheless rose 0.2 per cent to 7,811,228,000 kwh from the 7,796,353,000 kwh reported one month earlier. Of the total amount made available 386,599,000 kwh in November and 343,467,000 kwh in October represent electric energy produced for use in electric boilers.

Generation by utilities increased 1.8 per cent to 6,396,692,000 kwh while the amount produced by industries declined 0.6 per cent to 1,782,943,000 kwh. Hydro plants were responsible for 92.6 per cent of November generation, the balance being generated by thermal plants.

Provincial totals of production of electric energy during November are as follows: Quebec - 3,641,806,000 kwh; Ontario - 2,588,607,000 kwh; British Columbia - 908,489,000 kwh; Manitoba - 294,099,000 kwh; Alberta - 206,464,000 kwh; Saskatchewan - 151,112,000 kwh; Nova Scotia - 127,605,000 kwh; New Brunswick - 124,308,000 kwh; Newfoundland - 122,734,000 kwh; Yukon and Northwest Territories - 9,191,000 kwh and Prince Edward Island - 5,220,000 kwh.

Prepared in the Transportation and Public Utilities Section.

8504-509-117

Electric Power Statistics

November, 1957

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
	(Thousand kwh.)			
Generated by:				
Utilities - Hydro	5,922,344	90,099	-	36,518
- Thermal	474,348	405	5,220	78,578
- Total	6,396,692	90,504	5,220	115,096
Industry - Hydro	1,649,690	29,922	-	1,185
- Thermal	133,253	2,308	-	11,324
- Total	1,782,943	32,230	-	12,509
Total net generated	8,179,635	122,734	5,220	127,605
Energy imported:				
From other provinces	xxx	-	-	-
From United States	56,525	-	-	-
Total	56,525	-	-	-
Energy exported:				
To other provinces	xxx	3,988	-	867
To United States - primary	108,148	-	-	-
- secondary	316,784	-	-	-
Total	424,932	3,988	-	867
Total made available in Canada	7,811,228	118,746	5,220	126,738
(includes interruptable and at will energy and energy used in electric boilers)				
Used in electric boilers	386,599	19,445	-	-

Cumulative totals, January - November

Generated by:				
Utilities - Hydro	59,662,284	871,320	-	436,729
- Thermal	5,124,397	10,889	51,051	777,404
- Total	64,786,681	882,209	51,051	1,214,133
Industry - Hydro	15,641,826	309,243	-	25,578
- Thermal	1,594,216	35,428	-	105,845
- Total	17,236,042	344,671	-	131,423
Total net generated	82,022,723	1,226,880	51,051	1,345,556
Energy imported:				
From other provinces	xxx	-	-	-
From United States	785,763	-	-	-
Total	785,763	-	-	-
Energy exported:				
To other provinces	xxx	40,618	-	7,951
To United States - primary	1,166,702	-	-	-
- secondary	3,241,611	-	-	-
Total	4,408,313	40,618	-	7,951
Total made available in Canada	78,400,173	1,186,262	51,051	1,337,605
(includes interruptable and at will energy and energy used in electric boilers)				
Used in electric boilers	2,278,843	99,056	-	-

Electric Power Statistics

November, 1957

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
(Thousand kwh.)							
71,108	2,634,736	2,304,226	293,679	48,074	57,670	380,743	5,491
24,165	189	108,558	420	100,729	142,598	13,279	207
95,273	2,634,925	2,412,784	294,099	148,803	200,268	394,022	5,698
5,509	992,103	122,836	-	-	-	494,642	3,493
23,526	14,778	52,987	-	2,309	6,196	19,825	-
29,035	1,006,881	175,823	-	2,309	6,196	514,467	3,493
124,308	3,641,806	2,588,607	294,099	151,112	206,464	908,489	9,191
2,195	5,129	531,794	50,633	233	2,173	166	-
188	41	23,290	-	-	-	33,006	-
2,383	5,170	555,084	50,633	233	2,173	33,172	-
-	523,936	1,391	9,419	50,383	166	2,173	-
7,365	422	100,287	2	-	-	72	-
1,007	2,069	309,883	-	-	-	3,825	-
8,372	526,427	411,561	9,421	50,383	166	6,070	-
118,319	3,120,549	2,732,130	335,311	100,962	208,471	935,591	9,191
181	283,699	23,810	49,238	-	-	9,065	1,161

Cumulative totals, January - November

463,818	25,763,428	24,100,126	3,015,517	496,327	727,824	3,730,993	56,202
427,141	1,433	1,399,816	1,951	1,007,466	1,316,608	128,856	1,782
890,959	25,764,861	25,499,942	3,017,468	1,503,793	2,044,432	3,859,849	57,984
59,406	8,315,582	1,273,785	-	-	-	5,611,632	46,600
287,483	171,936	553,573	-	25,737	72,894	341,320	-
346,889	8,487,518	1,827,358	-	25,737	72,894	5,952,952	46,600
1,237,848	34,252,379	27,327,300	3,017,468	1,529,530	2,117,326	9,812,801	104,584
20,773	59,751	5,036,643	519,003	2,081	21,256	3,250	-
5,273	373	264,813	-	-	-	515,304	-
26,046	60,124	5,301,456	519,003	2,081	21,256	518,554	-
-	4,908,415	20,347	143,131	517,789	3,250	21,256	-
25,163	4,645	1,135,869	19	-	-	1,006	-
5,331	38,746	3,189,440	-	-	-	8,094	-
30,494	4,951,806	4,345,656	143,150	517,789	3,250	30,356	-
1,233,400	29,360,697	28,283,100	3,393,321	1,013,822	2,135,332	10,300,999	104,584
298	1,554,301	179,430	355,467	-	-	79,369	10,922

Electric Power Statistics

January - November, 1957

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Month	Daily Average		Total net generation	Imports from United States	Exports to United States	Total made available in Canada
	Total net generation	Total made available				
			(Thousand kwh.)			
January	* 260,343	* 251,128	* 8,070,624	64,939	350,610	* 7,784,953
February	* 259,972	* 248,597	* 7,279,228	31,221	349,741	* 6,960,708
March	* 250,840	* 236,980	* 7,776,035	19,464	389,110	* 7,406,389
April	* 249,084	* 235,738	* 7,472,505	27,701	428,069	* 7,072,137
May	* 243,982	* 231,998	* 7,563,441	64,733	436,229	* 7,191,945
June	* 225,067	* 214,887	* 6,752,005	95,110	400,519	* 6,446,596
July	* 229,002	* 215,546	* 7,099,075	113,200	530,357	* 6,681,918
August	* 221,889	* 213,872	* 6,878,557	98,317	346,829	* 6,630,045
September	* 230,715	* 222,227	* 6,921,443	112,298	366,937	* 6,666,804
October	* 259,038	* 249,931	* 8,030,175	102,255	384,581	* 7,747,849
November	272,681	260,374	8,179,635	56,525	424,932	7,811,228
December						
Total						

	Net generation - 1957						
Month	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
	(Thousand kwh.)						
January	* 5,620,267	632,830	* 6,253,097	1,654,555	162,972	1,817,527	* 8,070,624
February	* 5,126,908	527,507	* 5,654,415	1,466,697	158,116	1,624,813	* 7,279,228
March	* 5,592,899	504,383	* 6,097,282	1,509,030	169,723	1,678,753	* 7,776,035
April	* 5,391,878	421,023	* 5,812,901	1,507,957	151,647	1,659,604	* 7,472,505
May	* 5,503,546	382,408	* 5,885,954	1,533,616	143,871	1,677,487	* 7,563,441
June	* 5,075,715	386,639	* 5,462,354	1,148,747	140,904	1,289,651	* 6,752,005
July	* 5,447,646	358,432	* 5,806,078	1,170,830	122,167	1,292,997	* 7,099,075
August	* 5,139,205	437,971	* 5,577,176	1,164,490	138,930	1,303,420	* 6,878,557
September	* 5,135,923	467,560	* 5,603,483	1,190,140	127,820	1,317,960	* 6,921,443
October	* 5,705,953	531,296	* 6,237,249	1,648,093	* 144,833	* 1,792,926	* 8,030,175
November	5,922,344	474,348	6,396,692	1,649,690	133,253	1,782,943	8,179,635
December							

Net generation, 1949-1956
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 - Total	* 64,014,072	4,292,898	* 68,306,970	"	"	19,119,968	* 87,426,938
January	* 5,212,385	380,823	* 5,593,208	"	"	n.a.	n.a.
February	* 4,964,742	367,465	* 5,332,207	"	"	"	"
March	* 5,195,004	378,947	* 5,573,951	"	"	"	"
April	* 5,121,018	292,701	* 5,413,719	"	"	"	"
May	* 5,507,845	263,531	* 5,771,376	"	"	"	"
June	* 5,292,976	239,425	* 5,532,401	"	"	"	"
July	* 5,220,087	275,108	* 5,495,195	"	"	"	"
August	* 5,324,392	313,748	* 5,638,140	"	"	"	"
September	* 5,333,341	347,156	* 5,680,497	"	"	"	"
October	* 5,704,358	427,078	* 6,131,436	"	"	"	"
November	* 5,496,255	488,630	* 5,984,885	"	"	"	"
December	* 5,641,669	518,286	* 6,159,955	"	"	"	"

* revised.