

DOMINION BUREAU OF STATISTICS

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Memorandum

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ELECTRIC POWER STATISTICS
(Central Electric Stations)

Price: \$1.00 per year

January, 1958

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 98.8 per cent of total production in 1956. With the addition of new firms to the large power class and with the growth of those now included it is expected that this proportion will continue to increase from year to year.

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 made available includes power produced for use in electric boilers, the amounts of which are reported separately for each province.

An historical series on the new basis has been compiled back to the year 1949. Canada totals appear on page 4 of this report while those for the provinces were published in a special supplement to the June 1957 report.

Net generation of electric energy in Canada by firms producing 10 million kilowatt hours or more per annum amounted to 8,551,399 megawatt hours in January 1958 as compared with 8,070,624 mwh one year ago, an increase of 6.0 per cent. Firms reporting for the first time this year accounted for only 0.4 of the rise. Imports from the United States at 23,391 mwh were down 64.0 per cent and exports at 335,350 mwh were off 4.4 per cent from the corresponding totals for January 1957. The total amount of electric energy made available for use in Canada in January rose 5.8 per cent to 8,239,440 mwh from the 7,784,953 mwh reported one year ago. However, of the amount made available, 434,608 mwh, as compared with 138,512 mwh in January 1957, were for use in electric boilers.

Generation by utilities was up 7.6 per cent over the previous January while that by industry increased only 0.2 per cent.

Provincial totals of production of electric energy during January are as follows (1957 data in brackets): Quebec, 3,854,160 mwh (3,426,167); Ontario, 2,656,558 mwh (2,571,195); British Columbia, 900,179 mwh (999,756); Manitoba, 336,541 mwh (307,887); Alberta, 230,275 mwh (221,750); Saskatchewan, 164,022 mwh (159,267); Nova Scotia, 138,750 mwh (137,913); New Brunswick, 128,527 mwh (108,936); Newfoundland, 126,975 mwh (123,492); Yukon and Northwest Territories, 9,889 mwh (9,091); and Prince Edward Island, 5,523 mwh (5,170).

Prepared in the Transportation and Public Utilities Section.

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Electric Energy Made Available
January, 1958

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
Net generation		(Thousand kwh.)		
Utilities - Hydro	6,293,418	94,044	-	52,331
- Thermal	437,638	236	5,523	73,458
- Total	6,731,056	94,280	5,523	125,789
Industry - Hydro	1,696,780	29,101	-	3,072
- Thermal	123,563	3,594	-	9,889
- Total	1,820,343	32,695	-	12,961
Total net generation	8,551,399	126,975	5,523	138,750
Energy imported:				
From other provinces	xxx	-	-	-
From United States	23,391	-	-	-
Total	23,391	-	-	-
Energy exported:				
To other provinces	xxx	4,086	-	906
To United States - primary	111,344	-	-	-
- secondary	224,006	-	-	-
Total	335,350	4,086	-	906
Energy made available in Canada ^{1/}	8,239,440	122,889	5,523	137,844
Amount used in electric boilers	434,608	15,328	-	-

Cumulative totals, January -

Net generation				
Utilities - Hydro				
- Thermal				
- Total				
Industry - Hydro				
- Thermal				
- Total				
Total net generation				
Energy imported:				
From other provinces				
From United States				
Total				
Energy exported:				
To other provinces				
To United States - primary				
- secondary				
Total				
Energy made available in Canada ^{1/}				
Amount used in electric boilers				
January, 1957				
Total net generation	8,070,624	123,492	5,170	137,913
Total energy imported	64,939	-	-	-
Total energy exported	350,610	-	-	-
Total made available in Canada ^{1/}	7,784,953	123,492	5,170	137,913
Used in electric boilers	138,512	10,803	-	-

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

Electric Energy Made Available
January, 1958

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
(Thousand kwh.)							
84,521	2,799,442	2,383,088	332,282	51,052	89,637	401,047	5,974
14,882	68	81,072	4,259	110,530	132,348	15,005	257
99,403	2,799,510	2,464,160	336,541	161,582	221,985	416,052	6,231
6,987	1,042,350	136,681	-	-	-	474,931	3,658
22,137	12,300	55,717	-	2,440	8,290	9,196	-
29,124	1,054,650	192,398	-	2,440	8,290	484,127	3,658
128,527	3,854,160	2,656,558	336,541	164,022	230,275	900,179	9,889
2,332	5,391	532,453	53,561	259	922	720	-
36	46	19,137	-	-	-	4,172	-
2,368	5,437	551,590	53,561	259	922	4,892	-
-	517,107	1,374	17,031	53,492	720	922	-
6,025	446	104,801	2	-	-	70	-
5,131	2,986	215,142	-	-	-	747	-
11,156	520,539	321,317	17,033	53,492	720	1,739	-
119,739	3,339,058	2,886,831	373,069	110,789	230,477	903,332	9,889
461	328,021	19,208	58,484	-	-	11,350	1,756

Cumulative totals,

108,936	3,426,167	2,571,195	307,887	159,267	221,750	999,756	9,091
1,329	37	59,775	-	-	-	3,798	-
2	4,942	345,027	2	-	-	637	-
110,263	3,421,262	2,285,943	307,885	159,267	221,750	1,002,917	9,091
-	78,770	2,437	27,349	-	-	17,945	1,208



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Electric Energy Made Available
January, 1958

- 4 -

Month	Total net generation	Imports from United States	Exports to United States	Total made available in Canada	Daily Average	
					Total net generation	Total made available
			(Thousand kwh.)			
January	8,551,399	23,391	335,350	8,239,440	275,851	265,788
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
Total						

Net generation, 1949-1958
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 - Total	65,817,043	5,572,995	71,390,038	17,155,908	1,702,865	18,858,773	90,248,811
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	158,114	1,624,811	7,279,226
March	5,592,897	504,383	6,097,280	1,509,030	169,723	1,678,753	7,776,033
April	5,391,873	421,023	5,812,896	1,513,957	151,647	1,665,604	7,478,500
May	5,503,548	382,423	5,885,971	1,533,616	143,871	1,677,487	7,563,458
June	5,075,715	386,639	5,462,354	1,148,747	140,904	1,289,651	6,752,005
July	5,447,645	358,432	5,806,077	1,170,830	122,167	1,292,997	7,099,074
August	5,139,204	438,010	5,577,214	1,162,471	138,910	1,301,381	6,878,595
September	5,135,923	467,560	5,603,483	1,190,140	127,820	1,317,960	6,921,443
October	5,705,947	531,296	6,237,243	1,648,093	144,833	1,792,926	8,030,169
November	5,922,344	474,348	6,396,692	1,649,641	128,573	1,778,214	8,174,906
December	6,154,772	448,544	6,603,316	1,508,131	113,331	1,621,462	8,224,778
1958							
January	6,293,418	437,638	6,731,056	1,696,780	123,563	1,820,343	8,551,399
February							
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							