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# DOMINION BUREAU OF STATISTICS OTTAWA - CANADA

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## ELECTRIC POWER STATISTICS

April, 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 9,411,820 megawatt hours in April, 1960, a rise of 9.3 per cent over the 8,610,308 mwh. generated one year ago. Generation by utilities rose 6.0 per cent to 7,296,664 mwh. while production by industrial establishments increased 22.4 per cent to 2,115,156 mwh.

The amount of electric energy made available for use in Canada in April rose 8.8 per cent to 8,987,815 mwh. from 8,263,087 in 1959. Net exports to the United States increased 22.1 per cent with imports down 34,146 mwh. to 23,442 and exports up 42,638 to 447,447.

Electric energy used in electric boilers showed a rise of 8.2 per cent to 692,963 mwh. with the result that the amount remaining for largely non-secondary uses increased 8.8 per cent to 8,294,852 from 7,622,588.

Prepared in the Public Utilities Section

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## Electric Energy Made Available

April, 1960

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	Canada	Newfoundland	Prince Edward Island	Nova Scotia
<b>Net generation</b>	(Thousand kwh.)			
Utilities:				
Hydro .....	6,884,069	87,678	-	67,558
Thermal .....	412,595	339	5,952	61,458
Total .....	7,296,664	88,017	5,952	129,016
Industry:				
Hydro .....	1,929,442	30,468	-	3,691
Thermal .....	185,714	1,540	-	8,597
Total .....	2,115,156	32,008	-	12,288
Total net generation .....	9,411,820	120,025	5,952	141,304
<b>Energy imported:</b>				
From other provinces .....	XXX	-	-	-
From United States .....	23,442	-	-	-
Total .....	23,442	-	-	-
<b>Energy exported:</b>				
To other provinces .....	XXX	7,139	-	1,244
To United States - primary .....	99,638	-	-	-
secondary .....	347,809	-	-	-
Total .....	447,447	7,139	-	1,244
<b>Energy made available in Canada<sup>1</sup></b> .....	8,987,815	112,886	5,952	140,060
Amount used in electric boilers .....	692,963	4,458	-	-
<b>Energy made available less amount used in boilers</b> .....	8,294,852	108,428	5,952	140,060

Cumulative totals, January - April, 1960

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
<b>Net generation</b>	(Thousand kwh.)			
Utilities:				
Hydro .....	28,430,100	377,956	-	272,026
Thermal .....	1,912,055	3,991	25,839	269,537
Total .....	30,342,155	381,947	25,839	541,563
Industry:				
Hydro .....	7,690,188	112,573	-	14,577
Thermal .....	782,652	9,983	-	35,940
Total .....	8,472,840	122,556	-	50,517
Total net generation .....	38,814,995	504,503	25,839	592,080
<b>Energy imported:</b>				
From other provinces .....	XXX	-	-	-
From United States .....	121,070	-	-	-
Total .....	121,070	-	-	-
<b>Energy exported:</b>				
To other provinces .....	XXX	23,963	-	5,372
To United States - primary .....	418,883	-	-	-
secondary .....	1,186,976	-	-	-
Total .....	1,605,859	23,963	-	5,372
<b>Energy made available in Canada<sup>1</sup></b> .....	37,330,206	480,540	25,839	586,708
Amount used in electric boilers .....	2,822,138	45,057	-	-
<b>Energy made available less amount used in boilers</b> .....	34,508,068	435,483	25,839	586,708

April, 1959

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
Total net generation .....	8,610,308	117,069	5,278	135,739
Total energy imported .....	57,588	-	-	-
Total energy exported .....	404,809	4,354	-	1,150
Total made available in Canada <sup>1</sup> .....	8,263,087	112,715	5,278	134,589
Amount used in electric boilers .....	640,499	15,652	-	-
Total made available less amount used in boilers .....	7,622,588	97,063	5,278	134,589

January - April, 1959

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
Total net generation .....	34,296,447	459,809	23,033	552,746
Total energy imported .....	178,165	-	-	-
Total energy exported .....	1,267,536	17,773	-	4,542
Total made available in Canada <sup>1</sup> .....	33,207,076	442,036	23,033	548,204
Amount used in electric boilers .....	2,238,943	63,213	-	-
Total made available less amount used in boilers .....	30,968,133	378,823	23,033	548,204

<sup>1</sup>. Includes interruptible and at-will energy and energy used in electric boilers.

Electric Energy Made Available  
April, 1960

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
(Thousand kwh.)							
96,496	2,920,881	2,805,531	308,690	48,657	59,377	480,877	8,324
14,482	7,324	4,410	77	121,356	181,090	15,053	1,054
110,978	2,928,205	2,809,941	308,767	170,013	240,467	495,930	9,378
7,150	1,212,888	120,287	3,533	3,000	-	545,117	3,308
32,442	20,470	50,805	-	4,814	24,788	42,258	-
39,592	1,233,358	171,092	3,533	7,814	24,788	587,375	3,308
150,570	4,161,563	2,981,033	312,300	177,827	265,255	1,083,305	12,686
1,693	8,650	444,703	64,252	580	2,628	204	-
11	52	21,670	-	-	-	1,709	-
1,704	8,702	466,373	64,252	580	2,628	1,913	-
-	445,152	14,602	305	51,161	479	2,628	-
3,600	41,672	54,247	-	-	-	119	-
13,455	1,420	331,640	3	-	-	1,291	-
17,055	488,244	400,489	308	51,161	479	4,038	-
135,219	3,682,021	3,046,917	376,244	127,246	267,404	1,081,180	12,686
429	572,512	51,939	51,245	-	-	9,909	2,471
134,790	3,109,509	2,994,978	324,999	127,246	267,404	1,071,271	10,215

Cumulative totals, January - April, 1960

312,703	12,376,208	11,188,299	1,306,868	202,251	313,835	2,045,861	34,093
121,984	18,946	71,294	26,723	539,905	758,392	71,056	4,388
434,687	12,395,154	11,259,593	1,333,591	742,156	1,072,227	2,116,917	38,481
17,764	4,826,707	512,026	14,754	11,603	-	2,167,319	12,865
148,739	77,925	208,791	-	18,910	95,229	187,135	-
166,503	4,904,632	720,817	14,754	30,513	95,229	2,354,454	12,865
601,190	17,299,786	11,980,410	1,348,345	772,669	1,167,456	4,471,371	51,346
9,027	30,280	2,191,937	277,466	2,476	7,311	1,900	-
399	221	64,542	-	-	-	55,908	-
9,426	30,501	2,256,479	277,466	2,476	7,311	57,808	-
-	2,195,591	72,662	1,327	211,121	3,050	7,311	-
14,520	165,333	238,559	-	-	-	471	-
40,013	18,879	1,123,516	13	-	-	4,555	-
54,533	2,379,803	1,434,737	1,340	211,121	3,050	12,337	-
556,083	14,950,484	12,802,152	1,624,471	564,024	1,171,717	4,516,842	51,346
429	2,279,566	230,094	203,323	-	-	56,077	7,592
555,654	12,670,918	12,572,058	1,421,148	564,024	1,171,717	4,460,775	43,754
140,340	3,671,949	2,815,136	299,888	167,171	239,576	1,006,407	11,755
2,414	6,012	473,048	53,419	626	4,187	1,183	-
17,797	458,460	349,431	228	50,979	413	5,298	-
124,957	3,219,501	2,938,753	353,079	116,818	243,350	1,002,292	11,755
356	511,394	64,686	41,920	-	-	4,809	1,682
124,601	2,708,107	2,874,067	311,159	116,818	243,350	997,483	10,073
528,803	14,726,673	10,764,353	1,259,248	712,859	1,042,221	4,177,753	48,949
7,829	24,003	2,103,781	213,681	2,917	8,717	6,345	-
40,443	2,104,998	1,069,252	1,067	202,267	3,445	12,857	-
496,189	12,645,678	11,798,882	1,471,862	513,509	1,047,493	4,171,241	48,949
356	1,799,159	182,678	144,790	-	-	40,836	7,911
495,833	10,846,519	11,616,204	1,327,072	513,509	1,047,493	4,130,405	41,038



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Electric Energy Made Available

January - April, 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 .....	9,893,665	22,441	403,135	9,512,971	8,829,329*	319,150	306,870
February .....	9,440,925	13,895	347,740	9,107,080	8,416,990	325,548	314,037
March .....	10,068,585	61,292	407,537	9,722,340	8,966,834	324,793	313,624
April .....	9,411,820	23,442	447,447	8,987,815	8,294,852	313,727	299,594
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	1,875,005	191,342	2,066,347	9,893,665
February .....	6,933,208	466,596	7,399,804	1,856,992	184,129	2,041,121	9,440,925
March .....	7,291,110	527,259	7,818,369	2,028,749	221,467	2,250,216	10,068,585
April .....	6,884,069	412,595	7,296,664	1,929,442	185,714	2,115,156	9,411,820
May .....							
June .....							
July .....							
August .....							
September .....							
October .....							
November .....							
December .....							

\* Revised.