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# DOMINION BUREAU OF STATISTICS

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## ELECTRIC POWER STATISTICS

September, 1960

Total net generation of electric energy in Canada, by firms which produce 10 million kilowatt hours or more per annum, amounted to 9,249,184 megawatt hours in September 1960, a rise of 12.5 per cent over the 8,220,040 mwh. generated one year ago. Generation by utilities rose 9.9 per cent to 7,161,710 mwh. while production by industrial establishments increased 22.5 per cent to 2,087,474 mwh.

The amount of electric energy made available for use in Canada in September rose 10.4 per cent to 8,816,661 mwh. from 7,983,794 in 1959. Net exports to the United States increased 83.1 per cent with imports down 38,737 mwh. to 16,277 and exports up 148,540 to 448,800.

Electric energy used in electric boilers showed an increase of 32.2 per cent to 521,916 mwh. with the result that the amount remaining for mostly non-secondary uses increased 9.3 per cent to 8,294,745 from 7,588,949.

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 generated 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.

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Prepared in the Public Utilities Section

Electric Energy Made Available  
September, 1960

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
(Thousand kwh.)				
<b>Net generation</b>				
Utilities:				
Hydro .....	6,625,090	74,535	-	28,679
Thermal .....	536,620	6,726	6,241	116,397
Total .....	7,161,710	81,261	6,241	145,076
Industry:				
Hydro .....	1,895,861	32,598	-	2,939
Thermal .....	191,613	2,010	-	7,105
Total .....	2,087,474	34,608	-	10,044
<b>Total net generation</b> .....	9,249,184	115,869	6,241	155,120
<b>Energy imported:</b>				
From other provinces .....	xxx	-	-	-
From United States .....	16,277	-	-	-
Total .....	16,277	-	-	-
<b>Energy exported:</b>				
To other provinces .....	xxx	6,687	-	1,164
To United States - primary .....	101,687	-	-	-
secondary .....	347,113	-	-	-
Total .....	448,800	6,687	-	1,164
<b>Energy made available in Canada<sup>1</sup></b> .....	8,816,661	109,182	6,241	153,956
Amount used in electric boilers .....	521,916	2,238	-	-
<b>Energy made available less amount used in boilers</b> .....	8,294,745	106,944	6,241	153,956

Cumulative totals, January - September, 1960

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
(Thousand kwh.)				
<b>Net generation</b>				
Utilities:				
Hydro .....	62,180,063	784,928	-	483,663
Thermal .....	4,111,905	12,257	56,384	702,734
Total .....	66,291,968	797,185	56,384	1,186,394
Industry:				
Hydro .....	16,904,536	278,521	-	29,663
Thermal .....	1,725,778	21,334	-	74,139
Total .....	18,630,314	299,855	-	103,804
<b>Total net generation</b> .....	84,922,282	1,097,040	56,384	1,290,203
<b>Energy imported:</b>				
From other provinces .....	xxx	-	-	-
From United States .....	195,774	-	-	-
Total .....	195,774	-	-	-
<b>Energy exported:</b>				
To other provinces .....	xxx	59,326	-	10,856
To United States - primary .....	967,397	-	-	-
secondary .....	3,452,363	-	-	-
Total .....	4,419,760	59,326	-	10,856
<b>Energy made available in Canada<sup>1</sup></b> .....	80,698,296	1,037,714	56,384	1,279,347
Amount used in electric boilers .....	5,555,400	65,979	-	-
<b>Energy made available less amount used in boilers</b> .....	75,142,896	971,735	56,384	1,279,347

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
(Thousand kwh.)				
<b>September, 1959</b>				
<b>Total net generation</b> .....	8,220,040*	109,728	5,696	132,459
<b>Total energy imported</b> .....	55,014	-	-	-
<b>Total energy exported</b> .....	291,260	4,172	-	1,128
<b>Total made available in Canada<sup>1</sup></b> .....	7,983,794*	105,556	5,696	131,331
Amount used in electric boilers .....	394,845	153	-	-
<b>Total made available less amount used in boilers</b> .....	7,588,949*	105,403	5,696	131,331

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
(Thousand kwh.)				
<b>January - September, 1959</b>				
<b>Total net generation</b> .....	75,745,198*	1,015,019	50,796	1,195,461
<b>Total energy imported</b> .....	418,992	-	-	-
<b>Total energy exported</b> .....	3,376,582	37,647	-	9,884
<b>Total made available in Canada<sup>1</sup></b> .....	72,787,608*	977,372	50,796	1,185,577
Amount used in electric boilers .....	4,510,946	95,986	-	-
<b>Total made available less amount used in boilers</b> .....	68,276,662*	881,386	50,796	1,185,577

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

\* Revised

Electric Energy Made Available

September, 1960

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
(Thousand kwh.)							
30,906	2,938,807	2,614,754	352,912	48,415	53,844	473,690	8,548
44,828	49	18,603	4,520	126,977	193,407	17,687	1,185
75,734	2,938,856	2,633,357	357,432	175,392	247,251	491,377	9,733
1,662	1,181,455	120,572	3,553	2,536	-	546,016	4,530
37,427	20,123	47,496	-	5,971	27,921	43,560	-
39,089	1,201,578	168,068	3,553	8,507	27,921	589,576	4,530
114,823	4,140,434	2,801,425	360,985	183,899	275,172	1,080,953	14,263
2,559	8,110	521,679	56,796	502	3,432	46	-
277	37	14,319	-	-	-	1,644	-
2,836	8,147	535,998	56,796	502	3,432	1,670	-
-	523,074	6,334	284	51,885	244	3,432	-
1,437	40,150	59,978	-	-	-	122	-
7,245	5,334	332,942	3	-	-	1,589	-
8,682	568,558	399,254	287	51,885	244	5,143	-
108,977	3,580,023	2,938,169	417,494	132,516	278,360	1,077,480	14,263
-	454,688	40,139	13,595	-	-	8,587	2,669
108,977	3,125,335	2,898,030	403,899	132,516	278,360	1,068,893	11,594

Cumulative totals, January - September, 1960

631,124	26,606,164	25,357,738	2,771,580	426,518	673,829	4,370,584	73,933
285,750	22,893	113,162	35,201	1,147,696	1,573,810	152,776	9,242
910,874	26,629,057	25,470,900	2,806,781	1,574,214	2,247,639	4,523,360	83,175
42,906	10,447,779	1,117,677	32,316	25,589	-	4,892,704	37,379
327,714	181,388	454,616	-	47,139	222,117	397,331	-
370,620	10,629,167	1,572,293	32,316	72,728	222,117	5,290,035	37,379
1,287,494	37,258,224	27,043,193	2,839,097	1,646,942	2,469,756	9,813,395	120,554
21,174	72,682	4,243,216	545,944	4,951	24,876	2,114	-
3,764	407	127,124	-	-	-	64,479	-
24,938	73,089	4,370,340	545,944	4,951	24,876	66,593	-
-	4,253,533	107,073	2,739	452,227	4,327	24,876	-
29,185	391,081	545,820	-	-	-	1,311	-
90,628	43,235	3,306,070	26	-	-	12,404	-
119,813	4,687,849	3,958,963	2,765	452,227	4,327	38,591	-
1,192,619	32,643,464	27,454,570	3,382,276	1,199,666	2,490,305	9,841,397	120,554
1,364	4,600,396	445,701	314,473	-	-	108,617	18,870
1,191,255	28,043,068	27,008,869	3,067,803	1,199,666	2,490,305	9,732,780	101,684
136,700	3,611,722	2,545,300	279,715	168,141	245,728	970,759	14,092*
2,434	5,427	534,141	54,783	619	4,086	1,182	-
12,086	529,568	238,367	257	47,625	366	5,349	-
127,048	3,087,581	2,841,074	334,241	121,135	249,448	966,592	14,092*
-	337,013	26,007	25,183	-	-	3,823	2,666
127,048	2,750,568	2,815,067	309,058	121,135	249,448	962,769	11,426*
1,206,956	32,488,295	24,349,754	2,625,613	1,525,973	2,217,068	8,946,107	124,156*
19,812	65,908	4,390,644	465,634	5,854	22,930	12,017	-
106,685	4,403,796	2,898,294	2,202	443,464	5,398	33,019	-
1,120,083	28,150,407	25,842,104	3,089,045	1,088,363	2,234,600	8,925,105	124,156*
1,173	3,719,018	359,961	259,154	-	-	55,464	20,190
1,118,910	24,431,389	25,482,143	2,829,891	1,088,363	2,234,600	8,869,641	103,966*



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Electric Energy Made Available

January - September, 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	404,270*	9,511,836*	8,828,257*	319,150	306,833*
February .....	9,440,925	13,895	348,719*	9,106,101*	8,416,011*	325,548	314,004*
March .....	10,068,585	61,292	408,548*	9,721,329*	8,965,823*	324,793	313,591*
April .....	9,411,820	23,442	448,365*	8,986,897*	8,293,934*	313,727	299,563*
May .....	9,367,828	25,504	536,474	8,856,858	8,278,477	302,188	285,705
June .....	9,132,588	17,290	554,552	8,595,326	8,028,866	304,420	286,511
July .....	9,034,510	6,353	642,025	8,398,838	7,863,610	291,436	270,930
August .....	9,323,177	9,280	628,008	8,704,449	8,173,172	300,748	280,789
September .....	9,249,184	16,277	448,800	8,816,661	8,294,745	308,306	293,889
October .....							
November .....							
December .....							
<b>Total .....</b>							

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	1,714,697*	18,870,605*	90,260,643*
1958 .....	70,838,966	4,690,734	75,529,700	19,409,459	1,816,609*	21,226,068*	96,755,768*
1959 Total .....	77,251,848	5,286,363*	82,538,211*	19,265,330*	2,052,553*	21,317,883*	103,856,094*
January .....	6,411,494	612,033	7,023,527	1,573,003	180,623*	1,753,626*	8,777,153*
February .....	5,916,609	543,236	6,459,845	1,462,624	175,124*	1,637,748*	8,097,593*
March .....	6,511,897	486,023	6,997,920	1,634,633	181,840*	1,816,473*	8,814,393*
April .....	6,503,041	378,847	6,881,888	1,565,435	163,985*	1,729,420*	8,611,308*
May .....	6,610,516	378,153	6,988,669	1,586,097	164,564*	1,750,661*	8,739,330*
June .....	6,196,139	335,475	6,531,614	1,594,357	164,875*	1,759,232*	8,290,846*
July .....	6,003,112	340,624	6,343,736	1,594,731	147,432*	1,742,163*	8,085,899*
August .....	5,969,303	394,870	6,364,173	1,583,122	161,341*	1,744,463*	8,108,636*
September .....	6,083,521	432,257	6,515,778	1,535,130*	169,132*	1,704,262*	8,220,040*
October .....	6,676,139	481,073	7,157,212	1,685,384*	190,833*	1,876,217*	9,033,429*
November .....	7,032,810	450,436	7,483,246	1,666,439*	177,444*	1,843,883*	9,327,129*
December .....	7,337,267	453,336*	7,790,603*	1,784,375*	175,360*	1,959,735*	9,750,338*
1960							
January .....	7,321,713	505,605	7,827,318	1,875,005	191,342	2,066,347	4,893,665
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 .....	6,987,146	403,964	7,391,110	1,778,286	198,432	1,976,718	9,367,828
June .....	6,778,899	383,823	7,162,722	1,778,272	191,594	1,969,866	9,132,588
July .....	6,641,461	383,830	7,025,291	1,835,921	173,298	2,009,219	9,034,510
August .....	6,717,367	491,613	7,208,980	1,926,008	188,189	2,114,197	9,323,177
September .....	6,625,090	536,620	7,161,710	1,895,861	191,613	2,087,474	9,323,184
October .....							
November .....							
December .....							

\* Revised