



DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Monthly

Published by Authority of the Hon. George Hees, Minister of Trade and Commerce

Vol. 28 No. 10

Price: \$1.00 per year

ELECTRIC POWER STATISTICS

October, 1960

PROPERTY OF THE
LIBRARY

Hydro generation in Canada, by firms which produce 10 million kilowatt hours or more per annum, amounted to 8,785,222 megawatt hours in October 1960 while thermal generation was 783,597 mwh. Total net generation amounted to 9,568,819 mwh. which is an increase of 6.9 per cent over the 9,033,429 mwh. produced one year ago. Of this total, utilities accounted for 77.5 per cent.

The amount of electric energy made available for use in Canada in October rose 5.0 per cent to 9,196,366 mwh. from 8,756,843 in 1959. Net exports to the United States increased 34.6 per cent. Imports were down 592 mwh. to 39,148 and exports were up 95,275 mwh. to 411,601.

Electric energy used in electric boilers showed an increase of 19.0 per cent to 571,943 mwh. while the energy made available for other uses increased 4.2 per cent to 8,624,423 mwh. from 8,276,473.

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.

Prepared in the Public Utilities Section

8506-506-100

Electric Energy Made Available

October, 1960

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
	(Thousand kwh.)			
Net generation				
Utilities:				
Hydro	6,821,417	74,450	-	29,323
Thermal	598,189	9,948	6,925	129,228
Total	7,419,606	84,398	6,925	158,551
Industry:				
Hydro	1,963,805	37,807	-	2,502
Thermal	185,408	2,176	-	7,625
Total	2,149,213	39,983	-	10,127
Total net generation	9,568,819	124,381	6,925	168,678
Energy imported:				
From other provinces	xxx	-	-	-
From United States	39,148	-	-	-
Total	39,148	-	-	-
Energy exported:				
To other provinces	xxx	7,773	-	25,551
To United States - primary	105,904	-	-	-
secondary	305,697	-	-	-
Total	411,601	7,773	-	25,551
Energy made available in Canada ¹	9,196,366	116,608	6,925	143,127
Amount used in electric boilers	571,943	4,565	-	-
Energy made available less amount used in boilers	8,624,423	112,043	6,925	143,127

Cumulative totals, January - October, 1960

Net generation				
Utilities:				
Hydro	69,001,480	859,378	-	512,988
Thermal	4,710,094	22,205	63,309	831,962
Total	73,711,574	881,583	63,309	1,344,950
Industry:				
Hydro	18,868,341	316,328	-	32,167
Thermal	1,911,186	23,510	-	81,764
Total	20,779,527	339,838	-	113,931
Total net generation	94,491,101	1,221,421	63,309	1,458,881
Energy imported:				
From other provinces	xxx	-	-	-
From United States	234,922	-	-	-
Total	234,922	-	-	-
Energy exported:				
To other provinces	xxx	67,099	-	52,924
To United States - primary	1,073,301	-	-	-
secondary	3,758,060	-	-	-
Total	4,831,361	67,099	-	52,924
Energy made available in Canada ¹	89,894,662	1,154,322	63,309	1,405,957
Amount used in electric boilers	6,188,460	70,544	-	-
Energy made available less amount used in boilers	83,706,202	1,083,778	63,309	1,405,957

October, 1959				
Total net generation	9,033,429*	118,741	6,245	144,379
Total energy imported	39,740	-	-	-
Total energy exported	316,326	-	-	-
Total made available in Canada ¹	8,756,843*	118,741	6,245	144,379
Amount used in electric boilers	480,370*	39	-	-
Total made available less amount used in boilers	8,276,473*	118,702	6,245	144,379
January - October, 1959				
Total net generation	84,778,627*	1,133,760	57,041	1,339,840
Total energy imported	458,732	-	-	-
Total energy exported	3,692,908	-	-	-
Total made available in Canada ¹	81,544,451*	1,133,760	57,041	1,339,840
Amount used in electric boilers	5,045,503*	96,025	-	-
Total made available less amount used in boilers	76,498,948*	1,037,735	57,041	1,339,840

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

* Revised.

Electric Energy Made Available

October, 1960

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
(Thousand kwh.)							
38,607	3,120,160	2,620,796	290,927	52,195	62,674	522,628	9,657
41,754	1,913	44,083	5,778	134,718	203,920	18,598	1,324
80,361	3,122,073	2,664,879	296,705	186,913	266,594	541,226	10,981
2,336	1,217,776	127,959	3,684	2,462	-	565,633	3,646
39,230	18,175	49,705	-	5,734	21,023	41,740	-
41,566	1,235,951	177,664	3,684	8,196	21,023	607,373	3,646
121,927	4,358,024	2,842,543	300,389	195,109	287,617	1,148,599	14,627
27,152	9,205	556,336	60,343	509	2,573	86	-
104	57	37,500	-	-	-	1,487	-
27,256	9,262	593,836	60,343	509	2,573	1,573	-
-	557,937	6,649	299	55,126	296	2,573	-
2,620	40,625	62,549	-	-	-	110	-
10,157	5,326	288,856	3	-	-	1,355	-
12,777	603,888	358,054	302	55,126	296	4,038	-
136,406	3,763,398	3,078,325	360,430	140,492	289,894	1,146,134	14,627
-	491,004	46,467	11,484	-	-	15,616	2,807
136,406	3,272,394	3,031,858	348,946	140,492	289,894	1,130,518	11,820

Cumulative totals, January - October, 1960

669,731	29,726,324	27,978,534	3,062,507	478,713	736,503	4,893,212	83,590
327,504	24,806	157,245	40,979	1,282,414	1,777,730	171,374	10,566
997,235	29,751,130	28,135,779	3,103,486	1,761,127	2,514,233	5,064,586	94,156
45,242	11,665,555	1,245,636	36,000	28,051	-	5,458,337	41,025
368,944	199,563	504,321	-	52,873	243,140	439,071	-
412,186	11,865,118	1,749,957	36,000	80,924	243,140	5,897,408	41,025
1,409,421	41,616,248	29,885,736	3,139,486	1,842,051	2,757,373	10,961,994	135,181
64,843	81,887	4,799,552	606,287	5,450	27,449	2,200	-
3,868	464	164,624	-	-	-	65,966	-
68,711	82,351	4,964,176	606,287	5,450	27,449	68,166	-
-	4,811,470	113,722	3,028	507,353	4,623	27,449	-
31,805	431,706	608,369	-	-	-	1,421	-
100,785	48,561	3,594,926	29	-	-	13,759	-
132,590	5,291,737	4,317,017	3,057	507,353	4,623	42,629	-
1,345,542	36,406,862	30,532,895	3,742,716	1,340,148	2,780,199	10,987,531	135,181
1,364	5,091,400	492,168	325,957	-	-	185,350	21,677
1,344,178	31,315,462	30,040,727	3,416,759	1,340,148	2,780,199	10,802,181	113,504
147,897	3,909,103	2,826,567	324,164	179,600	271,394	1,090,983	14,356*
52	40	37,997	-	-	-	1,651	-
14,760	45,567	254,552	3	-	-	1,444	-
133,189	3,863,576	2,610,012	324,161	179,600	271,394	1,091,190	14,356*
40	388,702	31,280	44,838	-	-	13,491*	1,980
133,149	3,474,874	2,578,732	279,323	179,600	271,394	1,077,699*	12,376*
1,354,853	36,397,398	27,176,321	2,949,777	1,705,573	2,488,462	10,037,090	138,512*
635	430	445,718	-	-	-	11,949	-
121,445	457,096	3,102,805	29	-	-	11,533	-
1,234,043	35,940,732	24,519,234	2,949,748	1,705,573	2,488,462	10,037,506	138,512*
1,213	4,107,720	391,241	303,992	-	-	123,142*	22,170
1,232,830	31,833,012	24,127,993	2,645,756	1,705,573	2,488,462	9,914,364*	116,342*



1010684010

Electric Energy Made Available

January - October, 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*	8,823,460*	319,150	306,833*
February	9,440,925	13,895	348,719*	9,106,101*	8,408,341*	325,548	314,004*
March	10,068,585	61,292	408,548*	9,721,329*	8,957,396*	324,793	313,591*
April	9,411,820	23,442	448,365*	8,986,897*	8,286,958*	313,727	299,563*
May	9,367,828	25,504	536,474	8,856,858	8,272,260*	302,188	285,705
June	9,132,588	17,290	554,552	8,595,326	8,024,219*	304,420	286,511
July	9,034,510	6,353	642,025	8,398,838	7,858,809*	291,436	270,930
August	9,323,177	9,280	628,008	8,704,449	8,168,064*	300,748	280,789
September	9,249,184	16,277	448,800	8,816,661	8,289,201*	308,306	293,889
October	9,568,819	39,148	411,601	9,196,366	8,624,423	308,672	296,657
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	1,714,697*	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	9,349,184
October	6,821,417	598,189	7,419,606	1,963,805	185,408	2,149,213	9,568,819
November							
December							

* Revised