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ELECTRIC POWER STATISTICS

July, 1960

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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.

Total net generation of electric energy in Canada by firms, which produce 10 million kilowatt hours or more per annum, amounted to 9,034,510 megawatt hours in July 1960, a rise of 11.7 per cent over the 8,084,899 mwh. generated one year ago. Generation by utilities rose 10.7 per cent to 7,025,291 mwh. while production by industrial establishments increased 15.4 per cent to 2,009,219 mwh.

The amount of electric energy made available for use in Canada in July rose 8.8 per cent to 8,398,838 mwh. from 7,721,951 in 1959. Net exports to the United States increased 75.1 per cent with imports down 30,332 mwh. to 6,353 and exports up 242,392 to 642,025.

Electric energy used in electric boilers showed an increase of 30.5 per cent to 535,228 mwh. with the result that the amount remaining for mostly non-secondary uses increased 7.5 per cent to 7,863,610 from 7,311,895.

Electric Energy Made Available

July, 1960

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
(Thousand kwh.)				
Net generation				
Utilities:				
Hydro	6,641,461	80,777	-	37,025
Thermal	383,830	414	6,181	82,277
Total	7,025,291	81,191	6,181	119,302
Industry:				
Hydro	1,835,921	33,803	-	3,215
Thermal	173,298	2,356	-	7,156
Total	2,009,219	36,159	-	10,371
Total net generation	9,034,510	117,350	6,181	129,673
Energy imported:				
From other provinces	xxx	-	-	-
From United States	6,353	-	-	-
Total	6,353	-	-	-
Energy exported:				
To other provinces	xxx	7,464	-	1,032
To United States - primary	116,283	-	-	-
secondary	525,742	-	-	-
Total	642,025	7,464	-	1,032
Energy made available in Canada¹	8,398,838	109,886	6,181	128,641
Amount used in electric boilers	535,228	5,418	-	-
Energy made available less amount used in boilers	7,863,610	104,468	6,181	128,641

Cumulative totals, January - July, 1960

(Thousand kwh.)				
Net generation				
Utilities:				
Hydro	48,837,606	626,516	-	415,646
Thermal	3,083,672	5,047	43,655	491,549
Total	51,921,278	631,563	43,655	907,195
Industry:				
Hydro	13,082,667	212,054	-	24,812
Thermal	1,345,976	16,617	-	59,605
Total	14,428,643	228,671	-	84,417
Total net generation	66,349,921	860,234	43,655	991,612
Energy imported:				
From other provinces	xxx	-	-	-
From United States	170,217	-	-	-
Total	170,217	-	-	-
Energy exported:				
To other provinces	xxx	44,838	-	8,540
To United States - primary	751,691	-	-	-
secondary	2,591,261	-	-	-
Total	3,342,952	44,838	-	8,540
Energy made available in Canada¹	63,177,186	815,396	43,655	983,072
Amount used in electric boilers	4,502,207	61,455	-	-
Energy made available less amount used in boilers	58,674,979	753,941	43,655	983,072

July, 1959

(Thousand kwh.)				
Total net generation	8,084,899	115,586	5,662	129,252
Total energy imported	36,685	-	-	-
Total energy exported	399,633	3,923	-	1,054
Total made available in Canada ¹	7,721,951	111,663	5,662	128,198
Amount used in electric boilers	410,056	10,431	-	-
Total made available less amount used in boilers	7,311,895	101,232	5,662	128,198
January - July, 1959				
Total net generation	59,409,522	795,337	39,233	935,482
Total energy imported	311,331	-	-	-
Total energy exported	2,752,016	29,647	-	7,676
Total made available in Canada ¹	56,968,837	765,690	39,233	927,806
Amount used in electric boilers	3,706,464	91,901	-	-
Total made available less amount used in boilers	53,262,373	673,729	39,233	927,806

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

Electric Energy Made Available

July, 1960

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
(Thousand kwh.)							
69,394	2,746,284	2,867,685	268,115	41,848	83,833	438,947	7,553
30,395	57	2,442	-39	116,612	129,454	15,175	861
99,789	2,746,341	2,870,127	268,076	158,460	213,287	454,123	8,414
5,801	1,103,198	123,253	3,376	2,931	-	555,037	5,257
31,605	19,629	47,393	-	5,763	22,333	37,060	-
37,406	1,122,824	170,646	3,376	8,744	22,333	592,103	5,257
137,195	3,869,165	3,040,773	271,452	167,204	235,620	1,046,226	13,671
2,402	8,985	347,355	47,687	451	3,705	17	-
157	38	4,133	-	-	-	2,025	-
2,559	9,023	351,488	47,687	451	3,705	2,042	-
-	348,725	3,680	256	45,528	212	3,705	-
3,721	41,875	63,475	-	-	-	212	-
8,235	6,278	509,196	3	-	-	2,030	-
11,956	403,378	576,351	259	45,528	212	5,947	-
127,798	3,474,310	2,815,910	318,880	122,127	239,113	1,042,321	13,671
112	455,669	42,164	20,280	-	-	9,601	1,984
127,686	3,018,641	2,773,746	298,600	122,127	239,113	1,032,720	11,687

Cumulative totals, January - July, 1960

364,585	20,780,609	19,916,833	2,145,928	333,308	555,908	3,440,565	57,708
187,158	22,814	83,685	29,147	893,773	1,202,731	117,007	7,106
751,743	20,303,423	20,000,518	2,175,075	1,227,081	1,758,639	3,557,572	64,814
38,625	8,062,739	373,176	25,208	20,638	-	3,797,958	27,457
251,174	139,550	360,019	-	34,568	169,329	315,114	-
289,799	8,202,209	1,233,195	25,208	55,206	169,329	4,113,072	27,457
1,041,542	29,005,712	21,233,713	2,200,283	1,282,287	1,927,968	7,670,644	92,271
16,165	55,455	3,260,807	432,454	3,940	17,645	2,072	-
661	346	107,854	-	-	-	61,356	-
16,826	55,801	3,368,661	432,454	3,940	17,645	63,428	-
-	3,268,431	91,298	2,161	351,773	3,852	17,645	-
25,561	301,234	423,937	-	-	-	959	-
76,246	31,877	2,473,734	20	-	-	9,384	-
101,307	3,601,542	2,988,969	2,181	351,773	3,852	27,988	-
956,561	25,459,971	21,613,405	2,630,556	934,454	1,941,761	7,706,084	92,271
1,364	3,675,987	370,993	285,700	-	-	92,513	14,195
955,197	21,783,984	21,242,412	2,344,856	934,454	1,941,761	7,613,571	78,076
130,366	3,467,638	2,669,718	263,072	159,333	224,948	905,624	13,700
2,431	5,393	427,300	49,680	564	1,694	1,043	-
10,580	444,459	338,435	230	49,139	413	2,825	-
122,217	3,028,577	2,750,583	312,522	110,758	226,229	903,842	13,700
85	352,031	25,939	17,581	-	-	1,290	2,699
122,132	2,676,546	2,732,644	294,941	110,758	226,229	902,552	11,001
934,035	25,311,408	19,260,304	2,083,325	1,191,973	1,736,676	7,033,018	88,731
14,924	55,388	3,351,878	359,170	4,668	15,767	9,622	-
82,454	3,371,690	2,385,172	1,734	345,789	4,649	23,291	-
966,505	21,995,106	20,227,010	2,440,761	850,852	1,747,794	7,019,349	88,731
1,173	3,022,139	307,585	218,247	-	-	50,381	14,978
865,332	18,972,967	19,919,425	2,222,514	850,852	1,747,794	6,968,968	73,753



Electric Energy Made Available

1010684007

January - July, 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							
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	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

* Revised