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ELECTRIC POWER STATISTICS

January, 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 9,879,825 megowatt hours in January 1960, a rise of 12.6 per cent over the 8,776,153 mwh. generated one year ago. Generation by utilities rose 11.4 per cent to 7,826,353 mwh. while production by industrial establishments increased 17.2 per cent to 2,053,472 mwh.

The amount of electric energy made available for use in Canada in January rose 11.2 per cent to 9,499,132 mwh. from 8,539,783 in 1959. Net exports to the United States increased some 62 per cent with imports down 16,812 mwh. to 22,441 and exports up 127,511 mwh. to 403,134.

Electric energy used in electric boilers showed a rise of 41.2 per cent to 704,482 kwh. with the result that the amount remaining for largely non-secondary uses rose only 9.4 per cent to 8,794,650 mwh. from 8,040,862.

Prepared in the Transportation and Public Utilities Section

8504-509-10

The Queen's Printer and Controller of Stationery, Ottawa, 1960

Electric Energy Made Available

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
	(Thousand kwh.)			
Net generation				
Utilities:				
Hydro	7,321,713	95,511	-	68,236
Thermal	504,640	2,110	6,968	72,322
Total	7,826,353	97,621	6,968	140,558
Industry:				
Hydro	1,867,724	27,100	-	3,566
Thermal	185,748	2,936	-	9,164
Total	2,053,472	30,036	-	12,730
Total net generation	9,879,825	127,657	6,968	153,288
Energy imported:				
From other provinces	XXX	-	-	-
From United States	22,441	-	-	-
Total	22,441	-	-	-
Energy exported:				
To other provinces	XXX	5,117	-	1,392
To United States - primary	110,411	-	-	-
secondary	292,723	-	-	-
Total	403,134	5,117	-	1,392
Energy made available in Canada[1]	9,499,132	122,540	6,968	151,896
Amount used in electric boilers	704,482	14,212	-	-
Energy made available less amount used in boilers	8,794,650	108,328	6,968	151,896

Cumulative totals, January -

Net generation				
Utilities:				
Hydro				
Thermal				
Total				
Industry:				
Hydro				
Thermal				
Total				
Total net generation				
Energy imported:				
From other provinces	XXX			
From United States				
Total				
Energy exported:				
To other provinces	XXX			
To United States - primary				
secondary				
Total				
Energy made available in Canada[1]				
Amount used in electric boilers				
Energy made available less amount used in boilers				
January 1959				
Total net generation	8,776,153	123,097	6,275	148,348
Total energy imported	39,253	-	-	-
Total energy exported	275,623	4,967	-	1,017
Total made available in Canada[1]	8,539,783	118,130	6,275	147,331
Amount used in electric boilers	498,921	20,110	-	-
Total made available less amount used in boilers	8,040,862	98,020	6,275	147,331
January -				
Total net generation				
Total energy imported				
Total energy exported				
Total made available in Canada[1]				
Amount used in electric boilers				
Total made available less amount used in boilers				

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

Net generation of electric energy
By firms generating 10 million kwh or more per annum[1]

1949 - 1959
(000 kwh)

Year	Utilities			Industry			Total Net Generation
	Hydro	Thermal	Total	Hydro	Thermal	Total	
			CANADA				
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	70,840,574	4,690,850	75,531,424	19,409,459	1.804,558	21,214,017	96,745,441
1959	77,251,848	5,286,315	82,538,163	19,264,444	2,040,422	21,304,866	103,843,029
			NEWFOUNDLAND				
1949	6,225	-	6,225	n.a.	n.a.	933,271	939,496
1950	79,000	-	79,000	"	"	975,492	1,054,492
1951	106,185	71	106,256	"	"	925,598	1,031,854
1952	126,278	42	126,320	"	"	1,036,274	1,162,594
1953	152,400	85	152,485	"	"	1,033,038	1,185,523
1954	191,357	1,106	192,463	"	"	1,029,566	1,222,029
1955	919,173	1,501	920,674	"	"	383,534	1,304,208
1956	1,006,825	2,418	1,009,243	"	"	345,562	1,354,805
1957	965,713	12,052	977,765	339,443	38,170	377,613	1,355,378
1958	978,185	8,337	986,522	351,972	31,482	383,454	1,369,976
1959	968,526	36,007	1,004,533	350,969	18,378	369,347	1,373,880
			PRINCE EDWARD ISLAND				
1949	116	25,621	25,737	n.a.	n.a.	-	25,737
1950	84	30,916	31,000	"	"	-	31,000
1951	132	33,868	34,000	"	"	-	34,000
1952	118	36,882	37,000	"	"	-	37,000
1953	18	40,982	41,000	"	"	-	41,000
1954	152	45,848	46,000	"	"	-	46,000
1955	43	50,957	51,000	"	"	-	51,000
1956	-	53,000	53,000	"	"	-	53,000
1957	-	56,755	56,755	-	-	-	56,755
1958	-	62,536	62,536	-	-	-	62,536
1959	-	70,768	70,768	-	-	-	70,768
			NOVA SCOTIA				
1949	353,035	221,999	575,034	n.a.	n.a.	280,922	855,956
1950	365,784	257,967	623,751	"	"	288,627	912,378
1951	457,679	315,932	773,611	"	"	254,399	1,028,010
1952	448,180	439,964	888,144	"	"	212,406	1,100,550
1953	473,496	501,013	974,509	"	"	223,828	1,198,337
1954	538,236	535,735	1,073,971	"	"	190,761	1,264,732
1955	481,571	700,529	1,182,100	"	"	173,227	1,355,327
1956	546,214	760,409	1,306,623	"	"	157,942	1,464,565
1957	486,050	849,442	1,335,492	27,980	116,255	144,235	1,479,727
1958	612,538	794,039	1,406,577	38,805	116,512	155,317	1,561,894
1959	634,813	852,682	1,487,495	38,526	112,864	151.390	1,638,885
			NEW BRUNSWICK				
1949	437,176	226,964	664,140	n.a.	n.a.	276,905	941,045
1950	470,211	249,266	719,477	"	"	298,405	1,017,882
1951	507,581	270,610	778,191	"	"	291,891	1,070,082
1952	446,039	310,715	756,754	"	"	305,548	1,062,302
1953	467,051	273,237	740,288	"	"	310,757	1,051,045
1954	647,865	195,417	843,282	"	"	330,357	1,173,639
1955	517,128	302,667	819,795	"	"	408,954	1,228,749
1956	458,180	395,507	853,687	"	"	397,256	1,250,943
1957	540,121	447,330	987,451	65,714	308,263	373,977	1,361,428
1958	1,003,624	160,909	1,164,533	63,072	317,078	380,150	1,544,683
1959	920,736	282,495	1,203,231	53,788	409,955	463,743	1,666,974
			QUEBEC				
1949	18,816,677	1,324	18,818,001	n.a.	n.a.	7,501,643	26,319,644
1950	20,486,568	730	20,487,298	"	"	7,744,482	28,231,780
1951	22,882,415	2,136	22,884,551	"	"	7,664,484	30,549,035
1952	24,645,306	1,800	24,647,106	"	"	8,207,580	32,854,686
1953	24,396,949	7,093	24,404,042	"	"	10,266,935	34,670,977
1954	24,295,591	11,789	24,307,380	"	"	10,701,132	35,008,512
1955	24,404,054	13,176	24,417,230	"	"	10,902,662	35,319,892
1956	27,198,428	4,329	27,202,757	"	"	10,457,514	37,660,271
1957	28,494,732	1,647	28,496,379	9,306,848	183,577	9,490,425	37,986,804
1958	31,855,136	598	31,855,734	11,484,850	188,338	11,673,188	43,528,922
1959	33,025,336	19,093	33,044,429	11,392,264	189,465	11,581,729	44,626,158

1. These firms accounted for 99.3 p.c. of total net generation in Canada in 1958, 99.1 p.c. in 1957 and 98.8 p.c. in 1956. Figures on total production of electric energy are not available for earlier years.

Net generation of electric energy
By firms generating 10 million kwh or more per annum[1]
1949 - 1959
(000 kwh)

Year	Utilities			Industry			Total Net Generation
	Hydro	Thermal	Total	Hydro	Thermal	Total	
			ONTARIO[2]				
1949	11,229,854	21,352	11,251,206	n.a.	n.a.	1,653,315	12,904,521
1950	12,295,359	107,500	12,402,859	"	"	1,738,181	14,141,040
1951	15,708,252	90,483	15,798,735	"	"	1,781,822	17,580,557
1952	16,685,756	416,012	17,101,768	"	"	1,811,613	18,913,381
1953	16,290,201	1,767,181	18,057,382	"	"	1,814,732	19,872,114
1954	18,343,146	962,903	19,306,049	"	"	1,833,174	21,139,223
1955	23,273,775	416,200	23,689,975	"	"	1,909,621	25,599,596
1956	25,855,934	956,922	26,812,856	"	"	1,969,783	28,782,639
1957	26,486,070	1,484,428	27,970,498	1,407,860	604,496	2,012,356	29,982,854
1958	26,522,411	627,436	27,149,847	1,419,426	570,168	1,989,594	29,139,441
1959	30,903,636	373,381	31,277,017	1,397,860	572,251	1,970,111	33,247,128
			MANITOBA				
1949	2,163,615	35	2,163,650	n.a.	n.a.	-	2,163,650
1950	2,452,596	126	2,452,722	"	"	-	2,452,722
1951	2,561,549	26	2,561,575	"	"	-	2,561,575
1952	2,695,706	23	2,695,729	"	"	-	2,695,729
1953	2,790,158	1,311	2,791,469	"	"	-	2,791,469
1954	2,933,314	3,890	2,937,204	"	"	-	2,937,204
1955	3,100,691	1,132	3,101,823	"	"	-	3,101,823
1956	3,331,119	375	3,331,494	"	"	-	3,331,494
1957	3,332,693	5,477	3,338,170	-	-	-	3,338,170
1958	3,048,777	130,439	3,179,216	32,930	1,125	34,055	3,213,271
1959	3,542,588	51,422	3,594,010	39,084	18	39,102	3,633,112
			SASKATCHEWAN				
1949	491,570	349,003	840,573	n.a.	n.a.	1,354	841,927
1950	500,721	387,142	887,863	"	"	1,580	889,443
1951	516,142	452,223	968,365	"	"	16,018	984,383
1952	543,411	524,386	1,067,797	"	"	33,177	1,100,974
1953	551,505	609,914	1,161,419	"	"	34,917	1,196,336
1954	559,300	721,173	1,280,473	"	"	34,109	1,314,582
1955	569,401	839,817	1,409,218	"	"	36,483	1,445,701
1956	555,465	981,482	1,536,947	"	"	32,284	1,569,231
1957	546,148	1,118,765	1,664,913	-	27,937	27,937	1,692,850
1958	548,365	1,249,304	1,797,669	20,420	83,830	104,250	1,901,919
1959	562,075	1,425,113	1.987,188	24,098	72,932	97,030	2,084,218
			ALBERTA				
1949	362,227	430,282	792,509	n.a.	n.a.	-	792,509
1950	339,291	518,091	857,382	"	"	-	857,382
1951	499,034	484,998	984,032	"	"	-	984,032
1952	757,863	387,658	1,145,521	"	"	-	1,145,521
1953	795,368	502,920	1,298,288	"	"	12,856	1,311,144
1954	854,896	629,940	1,484,836	"	"	65,151	1,549,987
1955	932,682	773,864	1,706,546	"	"	81,134	1,787,680
1956	975,357	1,020,789	1,996,146	"	"	80,307	2,076,453
1957	807,308	1,452,395	2,259,703	-	80,278	80,278	2,339,981
1958	990,543	1,491,535	2,482,078	-	124,928	124,928	2,607,006
1959	842,267	1,983,186	2,825,453	-	245,062	245,062	3,070,515
			BRITISH COLUMBIA				
1949	1,923,242	113,982	2,037,224	n.a.	n.a.	2,190,820	4,228,044
1950	2,336,663	95,819	2,432,482	"	"	2,326,971	4,759,453
1951	2,562,258	82,305	2,644,563	"	"	2,382,685	5,027,248
1952	2,788,938	104,633	2,893,571	"	"	2,427,400	5,320,971
1953	3,208,215	93,609	3,301,824	"	"	2,650,727	5,952,551
1954	3,308,047	70,633	3,378,680	"	"	3,310,920	6,689,600
1955	3,740,210	96,340	3,836,550	"	"	4,432,146	8,268,696
1956	4,029,231	116,441	4,145,672	"	"	5,628,084	9,773,756
1957	4,096,154	142,688	4,238,842	5,958,085	343,889	6,301,974	10,540,816
1958	5,200,514	162,852	5,363,366	5,947,671	371,097	6,318,768	11,682,134
1959	5,752,719	183,667	5,936,386	5,920,796	419,497	6,340,293	12,276,679
			YUKON AND NORTHWEST TERRITORIES				
1949	n.a.	n.a.	n.a.	n.a.	n.a.	51,519	51,519
1950	16,000	-	16,000	"	"	54,855	70,855
1951	18,000	-	18,000	"	"	52,630	70,630
1952	19,300	-	19,300	"	"	52,952	72,252
1953	35,000	-	35,000	"	"	53,034	88,034
1954	42,000	-	42,000	"	"	52,385	94,385
1955	57,565	970	58,535	"	"	53,400	111,935
1956	57,213	1,226	58,439	"	"	51,236	109,675
1957	62,054	2,016	64,070	49,978	-	49,978	114,048
1958	80,481	2,865	83,346	50,313	-	50,313	133,659
1959	99,152	8,501	107,653	47,059	-	47,059	154,712

1. These firms accounted for 99.3 p.c. of total net generation in Canada in 1958, 99.1 p.c. in 1957 and 98.8 p.c. in 1956. Figures on total production of electric energy are not available for earlier years.

2. Figures previously published in June, 1957 supplement have been revised.

Electric Energy Made Available

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
			(Thousand kwh.)				
84,743	3,183,651	2,835,135	341,368	51,892	101,533	550,628	9,016
28,440	451	30,817	10,635	145,310	186,893	19,535	1,159
113,183	3,184,102	2,865,952	352,003	197,202	288,426	570,163	10,175
4,692	1,151,579	129,012	3,755	2,890	-	541,821	3,309
35,295	15,770	50,413	-	4,853	20,988	46,329	-
39,987	1,167,349	179,425	3,755	7,743	20,988	588,150	3,309
153,170	4,351,451	3,045,377	355,758	204,945	309,414	1,158,313	13,484
2,926	6,847	578,591	73,426	819	1,824	559	-
113	65	14,810	-	-	-	7,453	-
3,039	6,912	593,401	73,426	819	1,824	8,012	-
-	580,125	21,060	369	54,096	1,009	1,824	-
3,720	42,263	64,312	3	-	-	113	-
9,417	6,051	275,909	-	-	-	1,346	-
13,137	628,439	361,281	372	54,096	1,009	3,283	-
143,072	3,729,924	3,277,497	428,812	151,668	310,229	1,163,042	13,484
-	547,099	57,426	69,227	-	-	14,753	1,765
143,072	3,182,825	3,220,071	359,585	151,668	310,229	1,148,289	11,719
			Cumulative totals, January -				
135,948	3,724,631	2,722,665	317,846	197,882	291,588	1,094,718	13,155
1,831	6,562	543,052	54,726	820	2,371	1,651	-
9,610	547,923	226,988	324	52,293	1,169	3,092	-
128,169	3,183,270	3,038,729	372,248	146,409	292,790	1,093,277	13,155
-	416,496	40,147	8,323	-	-	11,715	2,130
128,169	2,766,774	2,998,582	363,925	146,409	292,790	1,081,562	11,025

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Electric Energy Made Available

January - 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	9,879,825	22,441	403,134	9,499,132	8,794,650	318,704	306,423
February							
March							
April							
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	504,640	7,826,353	1,867,724	185,748	2,053,472	9,879,825
February							
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							

* Revised