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# DOMINION BUREAU OF STATISTICS

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Memorandum

## ELECTRIC POWER STATISTICS

(Central Electric Stations)

Vol. 25 No. 10

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October, 1957

This report is the tenth of a revised monthly statistical series on electric power in Canada. It replaces "Central Electric Stations", which was a monthly compilation of the generation and distribution of electric power by firms which sold at least part of their electric power production. In the revised series certain firms which generate electricity solely for use in their own industry, mine, etc. with none for sale to the public have been included. These firms were excluded from the former Central Electric Stations series since none of their output was sold to the public, and in the revised series, their electric power generation has been classed as "generated by industry". To this "industrial" group has been added certain firms formerly included in the Central Electric Stations series. These firms include industrial producers with small amounts of electrical energy for sale. The remaining firms whose essential function is to sell electric energy have been classed as "Utilities" and their generation has been reported as "generated by utilities".

Statistics have been collected from only those firms which generate at least 10 million kilowatt hours per year. It is estimated, however, that the generation of these firms represents approximately 96 per cent of the total electricity production in Canada and consequently will reflect the growth of electric power generation more effectively than the previous series.

Total net generation as defined for the purpose of this series means total output less the amount used in station service; that is, the net amount available for domestic, commercial or industrial purposes. The amount of electric energy available for disposal in Canada is calculated by adding imports, and subtracting exports from the total net generation. These statistics on "Total available for disposal" in Canada and in the provinces were previously classed as "consumption". The classification "Used in electric boilers" replaces what was formerly termed "consumption secondary", although secondary consumption did on the a relatively small amount of energy used for purposes other than electric boilers.

In order to establish historical continuity, statistics have been compiled on the new backs to to 1949. These comprise net generation totals for utilities and industry, by province, and appear as a special supplement in the June 1957 report. Although presented for utilities, monthly 1966 net general to figures are not available for industry.

Total net generation in Canada in October, 1957, amounted to 8,078,679,000 kwh of which 6,285,673,000 kwh were produced by utilities and 1,793,006,000 kwh by industrial firms. Generation by utilities increased 11.3 per cent from the September total of 5,646,123,000 kwh while the amount produced by industries rose 36.0 per cent from 1,317,960,000 kwh resulting in an overall increase of 16.0 per cent from the September total of 6,964,083,000 kwh.

Hydro plants were responsible for 91.6 per cent of October generation, the balance being generated by thermal plants. At 7,402,470,000 kwh, hydro generation increased 16.2 per cent from the previous month while thermal generation increased 13.6 per cent to 676,209,000 kwh.

Quebec led the provinces in the production of electric energy with an October total of 3,594,513,000 kwh. Totals for other provinces and the territories in order of production were as follows: Ontario - 2,554,305,000 kwh; British Columbia - 930,268,000 kwh; Manitoba - 270,279,000 kwh; Alberta - 201,013,000 kwh; Saskatchewan - 146,648,000 kwh; Nova Scotia - 127,504,000 kwh; Newfoundland - 122,888,000 kwh; New Brunswick -116,531,000 kwh; Yukon and Northwest Territories - 9,741,000 kwh and Prince Edward Island - 4,989,000 kwh.

Total imports of electric energy from the United States decreased to 102,255,000 kwh from 112,298,000 kwh in September, while exports to the United States increased 4.8 per cent to 384,581,000 kwh. Total amount of electric energy made available in Canada in October was 7,796,353,000 kwh or 16.2 per cent more than that available in September; of this amount 343,467,000 kwh were used in electric boilers, an increase of 66.2 per cent over last month.

Prepared in the Transportation and Public Utilities Section.

8504-509-107

### Electric Power Statistics

October, 1957

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
		(Thousand	d kwh.)	
Generated by:				
Utilities - Hydro	5,754,377	90,663	_	31,362
- Thermal	531,296	193	4.989	85,183
- Total	6,285,673	90,856	4,989	116,545
Industry - Hydro	1,648,093	29,703		1,113
- Thermal	144,913	2,329	_	9,846
- Total	1,793,006	32,032		10,959
Total net generated	8,078,679	122,888	4,989	127,504
Energy imported:			The state of the	
From other provinces	ххх		P. C.	
From United States	102,255		_	
Total	102,255			-
energy exported:				
To other provinces	XXX6	3,686		799
To United States - primary	102,294		_	
- secondary	282,287	_	_	-
Total	384,581	3,686	-	799
otal made available in Canada	7,796,353	119,202	4,989	126,705
Used in electric boilers	343,467	13,005	-	-

# Cumulative totals, January - October

Generated by:		1000 150		Thy mil
Utilities - Hydro	54,198,004	781,221	. 60	400,211
- Thermal	4,650,049	10,484	45,831	698,826
- Total	58,848,053	791,705	45,831	1,099,037
Industry - Hydro	13,992,136	279,321	me Sulen	24,393
- Thermal	1,461,043	33,120		94,521
- Total	15,453,179	312,441		118,914
Total net generated	74,301,232	1,104,146	45,831	1,217,951
Energy imported:		Section 1		
From other provinces	xxx	ar again	E STATE	
From United States	729,238			
Total	729,238		11-31-	-
Energy exported:				
To other provinces	XXX	36,630	and Supplied	7,084
To United States - primary	1,058,554		_	
- secondary	2,924,827	8.		
Total	3,983,381	36,630	- 1	7,084
Cotal available for disposal in Canada  (includes interruptable and at will energy and energy used in electric boilers)	71,047,089	1,067,516	45,831	1,210,867
Used in electric boilers	1,892,244	79,611	40	

## Electric Power Statistics

October, 1957

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
			(Thousa	nd kwh.)		72.27	
36,458	2,601,883	2,220,779	270,241	47,691	72,600	377,296	5,404
50,754	81	158,019	38	96,153	122,425	13,257	204
87,212	2,601,964	2,378,798	270,279	143,844	195,025	390,553	5,608
2,821	977,606	122,615				510,102	4,133
26,498	14,943	52,892		2,804	5,988	29,613	_
29,319	992,549	175,507		2,804	5,988	539,715	4,133
116,531	3,594,513	2,554,305	270,279	146,648	201,013	930,268	9,741
	1000			Ya a T			
2,009	4,712	545,527	51,887	177	3,359	53	
149	35	24,454	_		,,,,,,	77,617	
2,158	4,747	569,981	51,887	177	3,359	77,670	_
	534,673	1,418	12,241	51,495	53	3,359	
892	446	100,863	2	32,403	_	91	_
3	4,966	276,457				861	-
895	540,085	378,738	12,243	51,495	53	4,311	
117,794	3,059,175	2,745,548	309,923	95,330	204,319	1,003,627	9,741
	286,969	11,092	25,884	85 - 8C -		6 210	1 000
	200,303	11,092	23,004		-	5,218	1,299

## Cumulative totals, January - October

		1000					
392,710	23, 128, 692	22,253,964	2,721,838	448,253	670,154	3,350,250	50,711
402,976	1,244	1,291,258	1,531	906,737	1,174,010	115,577	1,575
795,686	23,129,936	23,545,222	2,723,369	1,354,990	1,844,164	3,465,827	52,286
53,897	7,323,479	1,150,949	_	-		5,116,990	43,107
263,957	157,158	500,666		23,428	66,698	321,495	
317,854	7,480,637	1,651,615	-	23,428	66,698	5,438,485	43,107
1,113,540	30,610,573	25,196,837	2,723,369	1,378,418	1,910,862	8,904,312	95,393
						1100	
18,578	54,622	4,504,849	468,370	1,848	19,083	3,084	
5,085	332	241,523	-		**	482,298	-
23,663	54,954	4,746,372	468,370	1,848	19,083	485,382	-
-	4,384,479	18,956	133,712	467,406	3,084	19,083	
17,798	4,223	1,035,582	17	( ) ( ) ( ) ( ) ( ) ( )	_	934	
4,324	36,677	2,879,557	-		-	4,269	
22,122	4,425,379	3,934,095	133,729	467,406	3,084	24,286	-
1,115,081	26,240,148	26,009,114	3,058,010	912,860	1,926,861	9,365,408	95,393
117	1,270,602	155,620	306,229			70,304	9.761



#### Electric Power Statistics

October, 1957

	Daily	Average	Total	Imports from	Exports to	Total available	
Month	Total net generation	Total available for disposal	net generation	United States	United States	for disposal in Canada	
			(Thous	and kwh.)			
January	261,718	252,503	8,113,273	64,939	350,610	7,827,602	
February	261,378	250,002	7,318,572	31,221	349,741	7,000,052	
March	252,400	240,476	7,824,401	19,464	389,110	7,454,755	
April	250,799	237,453	7,523,956	27,701	428,069	7,123,588	
May	245,734	233,750	7,617,758	64,733	436,229	7,246,262	
June	226,600	216,420	6,798,006	95,110	400,519	6,492,597	
July	230,496	217,039	7,145,367	113,200	530,357	6,728,210	
August	223,199	215,183	6,919,176	98,317	346,829	6,670,664	
September	232,136	223,581	6,964,083	112,298	366,937	6,709,444	
October	260,603	251,495	8,078,679	102,255	384,581	7,796,353	
November							
December	50 Blo (2)	8 . S . S					
Total		37. 14		18 - 18 - 4		THE STATE OF THE S	

Month	Net generation - 1957								
	Utilities				Grand				
	Hydro	Thermal	Total	Hydro	Thermal	Total	total		
				(Thousand kwh.)					
January	5,662,916	632,830	6,295,746	1,654,555	162,972	1,817,527	8,113,273		
February	5,166,252	527,507	5,693,759	1,466,697	158,116	1,624,813	7,318,572		
March	5,641,265	504,383	6,145,648	1,509,030	169,723	1,678,753	7,824,401		
April	5,443,329	421,023	5,864,352	1,507,957	151,647	1,659,604	7,523,956		
May	5,557,863	382,408	5,940,271	1,533,616	143,871	1,677,487	7,617,758		
June	5,121,716	386,639	5,508,355	1,148,747	140,904	1,289,651	6,798,006		
July	5,493,938	358,432	5,852,370	1,170,830	122,167	1,292,997	7,145,367		
August	5,177,785	437,971	5,615,756	1,164,490	138,930	1,303,420	6,919,176		
September	5,178,563	467,560	5,646,123	1,190,140	127,820	1,317,960	6,964,083		
October	5,754,377	531,296	6,285,673	1,648,093	144,913	1,793,006	8,078,679		
December				Many 5					

Net generation, 1949-1956 CANADA

Year and month		Utilities			Grand		
	Hydro	Thermal	Total	Hydro	Thermal	Total	total
				Thousand kwh.			
1949	36,204,809	1,390,562	37,595,371	n.a.	n.a.	12,889,749	50,485,120
1950	39,783,365	1,647,557	41,430,922	33	11	13,428,593	54,859,515
1951	46,322,206	1,732,652	48,054,858	1)	11	13,369,527	61,424,385
1952	49,618,513	2,222,115	51,840,628	11	11	14,086,950	65,927,578
1953	49,542,536	3,797,345	53,339,881	31	11	16,400,824	69,740,705
1954	52,155,854	3,178,434	55,334,288		11	17,547,555	72,881,843
1955		3,197,153	61,642,039	11	11	18,381,161	80,023,200
1956 - Total	58,444,886		, ,	11	11	19,119,968	87,964,814
1930 - 10tal	64,551,948	4,292,898	68,844,846			19,119,900	07, 904, 014
7	5 252 7//	380,823	5,634,567	11	21	n.a.	n.a.
January	5,253,744			11	- 11	11, 4.	11.4.
February	4,999,928	367,465	5,367,393	11	18	0	- 11
March	5,232,703	378,947	5,611,650	11	n	11	11
April	5,168,073	292,701	5,460,774	11	11	11	11
May	5,549,616	263,531	5,813,147	11	18	18	11
June	5,334,952	239,425	5,574,377	31	11	11	99
July	5,265,802	275,108	5,540,910	11	11		19
August	5,368,420	313,748	5,682,168	11	11	21	11
September	5,387,879	347,156	5,735,035	11	11	11	11
October	5,758,423	427,078	6,185,501	11	13	11	11
November	5,543,552	488,630	6,032,182	11	**		11
December	5,688,856	518,286	6,207,142		11	11	.,