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# DOMINION BUREAU OF STATISTICS

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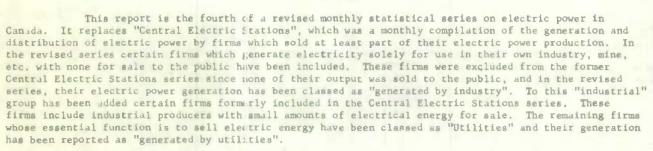
Memorandum

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ELECTRIC POWER STATISTICS

(Central Electric Stations)

APRIL, 1957



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 contain a relatively small amount of energy used for purposes other than electric boilers.

In order to establish historical continuity, statistics are being compiled on the new basis back to 1949. The January report showed net generation statistics back to 1954 only, for utilities by province. Subsequent reports, however, will include earlier years for both utilities and industry where feasible and as compiled.

Total net generation in Canada in April, 1957, amounted to 7,527,474,000 kwh of which 5,864,352,000 kwh was produced by utilizies and 1,663,122,000 kwh by industrial firms. This was a decrease of 3.7 per cent from the March total net generation of 7,818,960,000 kwh. Utilities showed a decrease of 4.6 per cent from the 6,145,648,000 kwh produced in March, while industries dropped .6 per cent from 1,673,312,000 kwh. The amount produced by utilities was an increase of 408,754,000 kwh or 7.5 per cent over that produced in April of last year.

Of the total net generation for April, 1957, 92.4 per cent was generated by hydro while the balance was generated by thermal plants. Generation by hydro at 6,951,288,000 kwh was a 2.8 per cent drop from the March figure, while thermal generation at 576,188,000 kwh dropped by 13.7 per cent.

Of the provinces, Quebec was the largest producer of electric energy in April with a total of 3,110,143,000 kwh. Total net generation of the other provinces in order of production follows:
Ontario-2,560,670,000 kwh; British Columbia-909,698,000; Manitoba-280,459,000; Alberta-180,822,000;
Saskatchewan-131,832,000; Nova Scotia-120,926,000; New Brunswick-112,455,000; Newfoundland-107,725,000;
Yukon and Northwest Territories-8,391,000, and Prince Edward Island-4,353,000 kwh.

Total imports of electric energy from the United States increased this month to 27,696,000 kwh from 19,464,000 kwh in March, while exports to the United States rose 9.2 per cent to 451,498,000 kwh. Total amount of electric energy available for disposal in Canada in April was 7,103,672,000 kwh or 4.4 per cent less than that available in March, and of this amount, 144,261,000 kwh was used in electric boilers, a 2.8 per cent decrease from last month.

Prepared in the Transportation and Public Utilities Section.

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## Electric Power Statistics April, 1957

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
		(Thousan	d kwh )	
cenerated by:				
Utilities - Hydro	5,443,329 421,023	75,938 308	4,353	51,542 57,543
- Total	5,864,352	76,246	4,353	109,085
Industry - Hydro	1,507,957	28,966	-	2,540
- Thermal	155,165	2,513	-	9,301
- Total	1,663,122	31,479		11,841
Total net generated	7,527,474	107,725	4,353	120,926
nergy imported:				
From other provinces	xxx	_	-	-
From United States	27,696 27,696	100		99
nergy exported;				
To other provinces	XXX	4,157	-	721
To United States - primary	104,036	-	-	44
- secondary	347,462	4,157		721
Total	451,498	4,137		
otal available for disposal in Canada  (includes interruptable and at will energy and energy used in electric boilers)	7,103,672	103,568	4,353	120,205
Used in electric boilers	144,261	10,262		8 11

## Cumulative totals, January - April

enerated by:				
Utilities - Hydro Thermal Total	21,913,762 2,085,743 23,999,505	338,491 1,204 339,695	18,584 18,584	197,385 263,628 461,013
Industry - Hydro Thermal	6,138,239 <sup>1</sup> 644,417 <sub>1</sub> 6,782,656	107,746 19,016 126,762		10,771 37,712 48,483
Total net generated	30,782,161	466,457	18,584	509,496
nergy imported:	27			
From other provinces	XXX	44	-	- 40 -
From United States	143,320 143,320	-		
nergy exported:				
To other provinces	*XXX1 410,7071	17,089		3,042
- secondary	1,178,120 1,588,827	17,089	-	3,042
otal available for disposal in Canada  (includes interruptable and at will energy and energy used in electric boilers)	29,336,654	449,368	18,584	506,454
Used in electric boilers	552,751	43,445	-	-

<sup>1.</sup> Includes revised March statistics.

w Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
			(Thous	and kwh )			
46,305	2,250,720	2,286,643	280,413	43,225	56,540	346,957	5,04
35,044	396	109,292	46	85,955	117,759	10,188	13
81,349	2,251,116	2,395,935	280,459	129,180	174,299	357,145	5,18
5,317	838,729	112,308		-		516,891	3,20
25,789	20,298	52,427	-	2,652	6,523	35,662	
31,106	859,027	164,735	40	2,652	6,523	552,553	3,20
112,455	3,110,143	2,560,670	280,459	131,832	180,822	909,698	8,39
			15.105	100	4 200		
1,859	5,172	406,967	45,425	188	4,396	10,012	
188	5,205	17,463 424,430	45,425	188	4,396	10,012	
2,047	3,203	424,430	45,425	100	4,370	10,012	
	386,937	1,061	21,356	45,379	_	4,396	
3,174	40,651	60,140	1			70	
970	23,300	322,880		-		312	
4,144	450,888	384,081	21,357	45,379		4,778	
110,358	2,664,460	2,601,019	304,527	86,641	185,218	914,932	8,39
	77,327	18,371	32,342			5,024	93
		1 31					

# Cumulative totals, January - April

116,156	9,265,222	8,844,552	1,170,628	190,122	243,421	1,526,771	21,0
184,940	1,041	653,464	1,355	378,049	529,346	53,517	6
301,096	9,266,263	9,498,016	1,171,983	568,171	772,767	1,580,288	21,6
15,485	3,475,733	452,659				2,062,8501	12,9
114,996	72,245	212,928	**	8,932	26,099	152,4891 2,215,339	
130,481	3,547,978	665,587	de .	8,932	26,099		12,9
431,577	12,814,241	10,163,603	1,171,983	577,103	798,866	3,795,627	34,6
					111111111111111111111111111111111111111		
7,765	21,485	1,486,564	194,8831	B43	10,446	1,989	
3,367	145	120,610				19,198	
11, 132	21,630	1,607,174	194,8831	843	10,446	21,187	
	1,447,501	4,602	44,629	194,677	1,989	10,446	
5,136	165,391	239,908	44,029	194,077	1,505	267	
1,290	98,912	1,074,834				3,084	
6,426	1,711,804	1,319,344	44,634	194,677	1,989	13,797	
0,420	2,122,00	-,5,,				1	
436,283	11,124,0671	10,451,433	1,322,2321	383,2691	807,323	3,803,017	34,6
		1 144				77113	
-	265,482	34,939	151,430	-	-	53,227	4,

<sup>1.</sup> Includes revised March statistics.



#### Electric Power Statistics April, 1957

	Daily	Average	Total net generation	Imports from	Exports to	Total available
Month	Total net generation	Total available for disposal		United States	United States	for disposal in Canada
			(Thousa	ind kwh )		
January February March April May June July September October November December Total	261,692 261,334 252,360 250,892	252,4451 249,1251 239,6441 236,766	8,112,466 <sup>1</sup> 7,317,339 <sup>1</sup> 7,823,161 7,526,767	64,939 31,221 19,464 27,696	350,610 373,060 413,659 451,498	7,826,795 6,975,500 7,428,966 7,102,965

	Net generation, 1957								
Month		Utilities		Industry			Grand		
	Hydro	Thermal	Total	Hydro	Thermal	Total	total		
				(Thousand kwh )					
January February March April May June July August September October November December	5,662,916 5,166,252 5,641,265 5,443,329	632,830 527,507 504,383 421,023	6,295,746 5,693,759 6,145,648 5,864,352	1,655,728 1,467,458 1,509,745 1,508,712	160,992 <sup>1</sup> 156,122 <sup>1</sup> 167,768 <sup>1</sup> 153,703	1,816,720 <sup>1</sup> 1,623,580 <sup>1</sup> 1,677,513 <sup>1</sup> 1,622,415	8,112,466 7,317,339 7,823,161 7,526,767		

### Net generation, 1949-1956 CANADA

Year and month		Utilities			Grand		
	Hydro	Thermal	Total	Hydro	Thermal	Total	total
			1	(Thousand kwh	)		
1949							
1950							111
1951	2	2	2	2	2	2	2
1952							
1953	1		,				
1954	52,113,854	3,174,454	55,288,308				
1955	58,140,113	3,192,045,	61,332,158				
1956 - Total	64,543,9481	4,289,609 <sup>L</sup>	68,833,557				
January	5,247,829	380,562	5,628,391	n.a.	n.a.	n.a.	n,a
February	4,994,013	367,204	5,361,217	19	11	11	11
March	5,226,788	378,686	5,605,474	54	11	88	11
April	5,163,158	292,440	5,455,598	11	11	11	9.2
May	5,544,701	263,270	5,807,971	- th	11	11	11
June	5,329,027	239,164	5,568,191	8.6	11	81	29
J:1y	5,259,887	274,847	5,534,734	12	11	11	11
August	5,363,505	313,487	5,676,992	28	91	11	11
September	5,381,964	346,895	5,728,859	- 11	17	19	11
October	5,752,508	426,817	6,179,325	11	11	48	48
November	5,537,637	488,369	6,026,006	11	6.8	46	11
December	5,683,941	518,026	6,201,967	17	н	11	11

<sup>1.</sup> Revised

<sup>2.</sup> Historical data to be shown in subsequent monthly reports.