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Memorandum

Vol. 25 No. 3

ECTRIC POWER STATISTICS (Central Electric Stations)

Price: \$1.00 per year.

MARCH, 1957

This report is the third 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 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 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

Total net generation in Canada in March, 1957, amounted to 7,818,960,000 kwh of which 6,145,648,-000 kwh was produced by utilities and 1,673,312,000 kwh by industrial firms. This was an increase of 6.9 per cent over the February total net generation of 7,313,831,000 kwh. Utilities showed an increase of 7.9 per cent over the 5,693,759,000 kwh produced in February, while industries increased 3.3 per cent over 1,620,072,000 kwh. The amount produced by utilities was an increase of 540,174,000 kwh or 9.6 per cent over that produced in March of last year.

Of the total net generation for March, 1957, 91.5 per cent was generated by hydro while the balance was generated by thermal plants. Generation by hydro at 7,151,010,000 kwh was a 7.8 per cent increase over the February figure while thermal generation at 667,437,000 kwh dropped by 1.9 per cent.

Quebec leads the provinces in the amount of electric energy generated in March with a total of 3,183,087,000 kwh. Total net generation of the other provinces in order of production follows: Ontario -2,628,605,000 kwh; British Columbia - 982,105,000; Manitoba - 302,376,000; Alberta - 198,189,000; Saskatchewan - 145,619,000; Nova Scotia - 130,765,000; Newfoundland - 122,712,000; New Brunswick - 112,-062,000; Yukon and Northwest Territories - 8,789,000, and Prince Edward Island - 4,651,000 kwh.

Total imports of electric energy from the United States dropped this month to 19,464,000 kwh from 31,221,000 kwh in February, while exports to the United States rose by 10.9 per cent to 413,659,000 kwh. Total amount of electric energy available for disposal in Canada in March was 7,424,765,000 kwh or 6,5 per cent more than that available in February, and of this amount, 148,406,000 kwh was used in electric boilers, an increase of 22.4 per cent over last month.

Prepared in the Transportation and Public Utilities Section.

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Electric Power Statistics March, 1957

	Canada	Newfoundland	Prince Edward Island	Nova Scoti
		(Thousand	i kwh)	
Cenerated by:		1		
and the same of th				
Utilities - Hydro	5,641,265	90,059	-	53,489
- Thermal	504,383	336	4,651	64,759
- Total	6,145,648	90,395	4,651	118, 248
Industry - Hydro	1.509.745	26,731	- 00	2,781
- Thermal	163,567	5,586	-	9,736
- Total	1,673,312	32,317	-	12,517
Total net generated	7,818,960	122,712	4,651	130,765
nergy imported:				
From other provinces	XXX	_		
From United States	19,464	-	-	-
Total	19,464			-
nergy exported:				
To other provinces	XXX	4,113		725
To United States - primary	105,944	-	a	-
- secondary	307,715	-	-	-
Total	413,659	4,113	P	725
otal available for disposal in Canada (includes interruptable and at will energy	7,424,765	118,599	4,651	130,040
and energy used in electric boilers)	1/8 /06	10,748		
Used in electric boilers	148,406	10,748	_	

Cumulative totals, January - March

16,470,433 1,664,720 18,135,153	262,553 896 263,449	14,231 14,231	145,843 206,085 351,928
4,632,931 473,3531 5,106,2841	78,780 16,503 95,283	-	8,231 28,411 36,642
23,241,4371	358,732	14,231	388,570
115,624 115,624	-	-	
306,677 830,652 1,137,329	12,932 ¹	• I	2,321
22,219,7321 408,4901	345,800 ¹ 33,183 ¹	14,231	386, 249
	1,664,720 18,135,153 4,632,931 473,3531 5,106,2841 23,241,4371 XXXX 115,624 115,624 115,624 23,241,4371 23,241,4371	1,664,720 18,135,153 4,632,931 473,3531 5,106,2841 23,241,4371 358,732 XXX 115,624 115,624 115,624 12,9321 306,677 830,652 1,137,329 12,9321 22,219,7321 345,8001	1,664,720 18,135,153 4,632,931 4,632,931 4,633,3531 5,106,2841 23,241,4371 358,732 14,231 *** *** *** ** ** ** ** ** ** ** **

^{1.} Includes revised February statistics.

Electric Power Statistics March, 1957

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and
			(Thousa	and lowh)			
27,945	2,343,352	2,300,555	302,376	49,732	64,435	404,029	5,293
49,957 77,902	2,343,408	150,174 2,450,729	302,376	93,457 143,189	126,148 190,583	14,691 418,720	154 5,447
3,403	828,223	123,810	90			521,455	3,342
30,757 34,160	11,456 839,679	54,066 177,876	-	2,430 2,430	7,606 7,606	41,930 563,385	3,342
112,062	3,183,087	2,628,605	302,376	145,619	198,189	982,105	8,789
1,945	5,146	407,273	48,494	189	2,896	27 880	-
420 2,365	5,184	18,126 425,399	48,494	189	2,896	907	-
-	400,518	1,095	8,164	48,432	27	2,896	79
1,964 314 2,278	42,061 33,582 476,161	61,856 273,122 336,073	8,165	48,432	27	62 697 3,655	-
112,149	2,712,110	2,717,931	342,705	97,376	201,058	979,357	8,789
	57,427	11,387	54,005			13,880	959

Cumulative totals, January - March

				1			
69,851 149,896 219,747	7,014,502 645 7,015,147	6,557,909 544,172 7,102,081	890,215 1,309 891,524	146,897 292,094 438,991	186,881 411,587 598,468	1,179,814 43,329 1,223,143	15,968 476 16,444
10,168 89,207 99,375	2,639,653 36,4701 2,676,1231	340,351 160,501 500,852	_1_1	6,280 ¹ 6,280 ¹	19,576 19,576	1,545,959 116,405 1,662,364	9,789
319,122	9,691,2701	7,602,933	891,5241	445,2711	618,044	2,885,507	26,233
5,906 3,179 9,085	16,3131 112 16,4251	1,079,597 103,147 1,182,744	143,178	655	6,050	1,989 9,186 11,175	
1,968 314 2,282	1,060,564 124,740 75,612 1,260,916	3,541 179,768 751,954 935,263	23,273	143,018	1,989	6,050 197 2,772 9,019	
325,925	8,446,7791 188,1551	7,850,4141 16,5681	1,011,425 ¹ 119,088	302,9081	622,105	2,887,663 48,203	26,233 3,293

^{1.} Includes revised February statistics.



Electric Power Statistics March, 1957

Month	Daily Average		Total	Imports from	Exports to	Total available
	Total net generation	Total available for disposal	net generation	United States	United States	for disposal in Canada
			(Thous	and kwh)		
January February March April May June July August September October November December Total	261,569 261,208 252,225	252,354 ¹ 249,000 239,509	8,108,646 ¹ 7,313,831 ¹ 7,818,960	64,939 31,221 19,464	350,610 373,060 413,659	7,822,975 ¹ 6,971,992 ¹ 7,424,765

	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	632,830 527,507 504,383	6,295,746 5,693,759 6,145,648	1,655,728 1,467,458 1,509,745	157,1721 152,614 163,567	1,812,900 1 1,620,072 1,673,312	8,108,646 7,313,831 7,818,960		

Net generation, 1949-1956 CANADA

Year and month		Utilities			Grand		
	Hydro	Thermal	Total	Hydro	Thermal	Total	total
			(1	housand kwh			
1949							
1950							The state of the s
1951	2	2	2	2	2	2	2
1952							
1953							
1954	52,103,384	3,174,454	55,277,838				
.955	57,700,183	3,192,045	61,602,208			i	
1956 - Total	64,484,958	4,289,767	68,774,725				
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	11	10	11	11
March	5,226,788	378,686	5,605,474	11	11		28
April	5,163,158	292,440	5,455,598	11	11	. 10	88
May	5,544,701	263,270	5,807,971	11	19	16	11
June	5,329,027	239,164	5,568,191	92	88	10	19
Jely	5,259,887	274,847	5,534,734	10	99	- 11	61
Angust	5,363,505	313,487	5,676,992	44	20	18	11
September	5,381,964	346,895	5,728,859	11	11	11	91
October	5,752,508	426,817	6,179,325	11	10	12	99
November	5,537,637	488,369	6,026,006	11	99	11	11
December	5,683,941	518,026	6,201,967	31	#1	11	- 11

Revised
 Historical data to be shown in subsequent monthly reports.