

DOMINION BUREAU OF STATISTICS

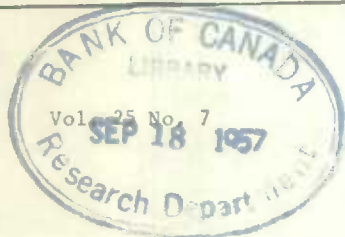
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Memorandum

ELECTRIC POWER STATISTICS
(Central Electric Stations)

Price: \$1.00 per year

July, 1957

This report is the seventh 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 have been compiled on the new basis back 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 1956 net generation figures are not available for industry.

Total net generation in Canada in July, 1957, amounted to 7,145,334,000 kwh of which 5,852,337,000 kwh were produced by utilities and 1,292,997,000 kwh by industrial firms. Generation by utilities increased 6.2 per cent from the June total of 5,508,355,000 kwh while the amount produced by industries rose .3 per cent from 1,289,529,000 kwh resulting in an overall increase of 5.1 per cent from the June total of 6,797,884,000 kwh.

Hydro plants were responsible for 93.4 per cent of July generation, the balance being generated by thermal plants. At 6,664,705,000 kwh, hydro generation was up 6.3 per cent from the previous month. Thermal generation, on the other hand, decreased 8.8 per cent to 480,629,000 kwh.

Quebec continued to lead the provinces in the production of electric energy with a July total of 2,827,279,000 kwh. Totals for other provinces and the territories in order of production are as follows: Ontario - 2,627,530,000 kwh; British Columbia - 800,830,000 kwh; Manitoba - 236,681,000 kwh; Alberta - 178,967,000 kwh; Saskatchewan - 130,649,000 kwh; Nova Scotia - 115,317,000 kwh; New Brunswick - 112,759,000 kwh; Newfoundland - 100,394,000 kwh; Yukon and Northwest Territories - 10,489,000 kwh and Prince Edward Island - 4,439,000 kwh.

Total imports of electric energy from the United States increased to 113,200,000 kwh from 95,110,000 kwh in June, while exports to the United States rose 32.4 per cent to 530,357,000 kwh. Total amount of electric energy available for disposal in Canada in July was 6,728,177,000 kwh or 3.6 per cent more than that available in June; of this amount, 217,572,000 kwh were used in electric boilers, an increase of 131.9 per cent from last month.

Prepared in the Transportation and Public Utilities Section

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Electric Power Statistics

July, 1957.

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
		(Thousand kwh)		
Generated by:				
Utilities - Hydro	5,493,875	66,602	-	26,342
- Thermal	358,462	2,340	4,439	77,284
- Total	5,852,337	68,942	4,439	103,626
Industry - Hydro	1,170,830	29,318	-	2,413
- Thermal	122,167	2,134	-	9,278
- Total	1,292,997	31,452	-	11,691
Total net generated	7,145,334	100,394	4,439	115,317
Energy imported:				
From other provinces	xxx	-	-	531
From United States	113,200	-	-	-
Total	113,200	-	-	531
Energy exported:				
To other provinces	xxx	2,873	-	651
To United States - primary	106,691	-	-	-
- secondary	423,666	-	-	-
Total	530,357	2,873	-	651
Total available for disposal in Canada	6,728,177	97,521	4,439	115,197
(includes interruptable and at will energy and energy used in electric boilers)				
Used in electric boilers	217,572	1,936	-	-

Cumulative totals, January - July

Generated by:				
Utilities - Hydro	* 38,087,189	563,475	-	309,441
- Thermal	3,213,279	3,900	31,527	459,635
- Total	41,300,468	567,375	31,527	769,076
Industry - Hydro	9,991,432	195,142	-	19,150
- Thermal	1,049,400	25,215	-	65,667
- Total	11,040,832	220,357	-	84,817
Total net generated	52,341,300	787,732	31,527	853,893
Energy imported:				
From other provinces	xxx	-	-	531
From United States	416,368	-	-	-
Total	416,368	-	-	531
Energy exported:				
To other provinces	xxx	26,076	-	4,929
To United States - primary	748,777	-	-	-
- secondary	* 2,135,858	-	-	-
Total	2,884,635	26,076	-	4,929
Total available for disposal in Canada	49,873,033	761,656	31,527	849,495
(includes interruptable and at will energy and energy used in electric boilers)				
Used in electric boilers	* 1,178,538	61,451	-	-

* Includes revisions

Electric Power Statistics
July, 1957.

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
(Thousand kwh)							
33,163	2,319,767	2,403,462	236,640	42,556	81,506	258,961	4,876
28,158	79	60,020	41	86,253	90,729	8,969	150
81,321	2,319,846	2,463,482	236,681	128,809	172,235	267,930	5,026
7,262	498,274	119,729	-	-	-	508,371	5,463
24,176	9,159	44,319	-	1,840	6,732	24,529	-
31,438	507,433	164,048	-	1,840	6,732	532,900	5,463
112,750	2,827,279	2,627,530	236,681	130,649	178,967	800,830	10,489
1,799	11,517	406,464	42,713	162	730	324	-
77	29	7,493	-	-	-	105,601	-
1,876	11,546	413,957	42,713	162	730	105,925	-
531	400,101	8,801	7,673	42,556	324	730	-
2,351	324	103,356	2	-	-	158	-
676	2,835	420,143	-	-	-	12	-
4,058	403,260	532,300	7,675	42,556	324	900	-
110,577	2,435,565	2,509,187	271,719	88,255	179,373	905,855	10,489
713	152,801	38,224	19,899	-	-	3,086	913

Cumulative totals, January - July

280,333	*16,007,324	15,798,352	1,950,335	316,272	475,258	2,350,699	35,700
267,716	1,158	909,113	1,415	634,339	822,483	80,945	1,048
548,049	16,008,482	16,707,465	1,951,750	950,611	1,297,741	2,431,644	36,748
42,135	5,279,793	810,473	-	-	-	3,615,846	28,893
186,037	111,916	356,969	-	16,002	46,405	241,189	-
228,172	5,391,709	1,167,442	-	16,002	46,405	3,857,035	28,893
776,221	21,400,191	17,874,907	1,951,750	966,613	1,344,146	6,288,679	65,641
13,999	41,059	3,022,389	325,612	1,331	13,065	2,893	-
3,601	238	170,523	-	-	-	242,006	-
16,600	41,297	3,192,912	325,612	1,331	13,065	244,899	-
331	2,939,490	15,436	92,300	325,159	2,893	13,065	-
19,171	2,510	730,490	11	-	-	595	-
4,182	24,146	2,104,227	-	-	-	3,303	-
19,884	2,966,146	2,850,153	92,311	325,159	2,893	16,963	-
772,937	18,475,342	18,217,666	2,185,051	642,785	1,354,318	6,516,615	65,641
802	698,561	116,961	231,172	-	-	62,837	6,754



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Electric Power Statistics

July, 1957.

Month	Daily Average		Total net generation	Imports from United States	Exports to United States	Total available for disposal in Canada
	Total net generation	Total available for disposal				
	(Thousand 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	252,397	240,743	7,824,311	19,464	389,110	7,454,661
April	250,799	237,453	7,523,966	27,701	428,069	7,123,596
May	245,734	233,750	7,617,749	64,733	436,229	7,246,250
June	226,596	216,416	6,797,884	95,110	400,519	6,492,475
July	230,495	217,038	7,145,334	416,368 113,200	530,357	6,728,177
August						
September						
October						
November						
December						
Total						

	Net generation 1.						
Month	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	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	169,633	1,678,663	7,824,311
April	5,443,329	421,023	5,864,352	1,507,957	151,657	1,659,614	7,523,966
May	5,557,863	382,408	5,940,271	1,533,616	143,862	1,677,478	7,617,749
June	*5,121,689	*386,666	5,508,355	1,148,747	140,782	1,289,529	6,797,884
July	5,493,875	358,462	5,852,337	1,170,830	122,167	1,292,997	7,145,334
August							
September							
October							
November							
December							

* Revised

1. For historical record 1942 - 1956 see June, 1957 report.