

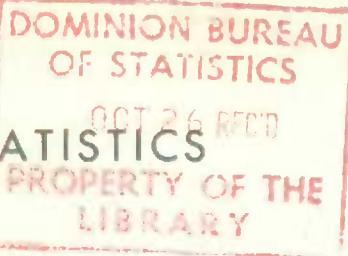
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ELECTRIC POWER STATISTICS

AUGUST 1964

This report is the third of a revised series which contains several conceptual additions. Tables 1A and 1B contain preliminary statistics on energy generation, imports, exports and secondary for the months of August and June respectively. These preliminary statistics indicate that total net generation increased 9.8 per cent to 10,710,003 thousand kwh. in August 1964 from 9,749,357 thousand kwh. generated one year ago.

Imports decreased to 303,559 thousand kwh. from 306,477 thousand kwh. and exports increased to 368,296 thousand kwh. from 271,069 thousand kwh. in August 1963.

Firm energy used in Canada rose to 10,316,640 thousand kwh. from 9,460,389 thousand kwh. in August 1963. These figures are not directly comparable as the 328,626 thousand kwh. of secondary energy used in Canada in August 1964 is composed of 287,479 thousand kwh. used in electric boilers and 41,147 thousand kwh. of secondary energy used for other purposes whereas the 323,976 thousand kwh. used in 1963 was boiler load only.

Tables 2A and 2B show detailed data concerning the amount of energy made available and the disposition of this energy for the months of March and April respectively. These figures include a breakdown of sales by rate categories for large utilities and industries while distribution by smaller utilities and industries is included in "distribution by non-respondents" (item 28). Distribution by non-respondents is the energy which is delivered by companies which report in this survey to companies which do not report. Consumption of own generation by industrial establishments is included in power sales. Comparable March and April 1963 data is shown for all categories where it is available. The delay between the publication of preliminary and final detailed data will be further reduced in future monthly reports.

Tables 3, 4 and 5 give final data for the months of January to April 1964 and preliminary data for other months. In table 3, the secondary energy includes both that used in electric boilers and that used for other purposes. In March, of the 231,591 thousand kwh. of secondary energy 195,140 thousand kwh. were used in electric boilers and 36,451 thousand kwh. were used for other purposes, while in April, of the 216,875 thousand kwh. of secondary energy 162,529 thousand kwh. were used in electric boilers and 54,346 thousand kwh. were used for other purposes.

The total net generation for the twelve-month period ending August 31, 1964 amounted to 129,-435,849 thousand kwh. compared to 128,475,203 thousand kwh. for the period ending in July.

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 kwh. per annum and to large distributors of electric energy. These firms accounted for 99.6 per cent of total production in 1962.

In the electric power series, net generation is defined as total generation less the amount used in station service.

Industry Division

October 1964
6511-513

TABLE 1A. Preliminary Electric Energy Statistics
August 1964

No.		Canada 1963	Canada	Newfoundland	Prince Edward Island	Nova Scotia
		thousand kwh.				
1	Net generation - Hydro	8,483,434 ^r	9,049,836	183,126	-	49,390
2	Thermal	1,265,923 ^r	1,660,167	6,974	10,158	131,714
3	Total net generation	9,749,357 ^r	10,710,003	190,100	10,158	181,104
	Energy imported:					
4	From other provinces .....	...	...	-	-	2,430
5	From United States	306,477	303,559	-	-	-
6	Totals	306,477	303,559	-	-	2,430
	Energy exported:					
7	To other provinces - Firm .....	...	...	6,374	-	680
8	Secondary .....	...	...	-	-	3,759
9	To United States - Firm	74,067	60,484	-	-	-
10	Secondary	197,402	307,812	-	-	-
11	Totals	271,069 ^r	368,296	6,374	-	4,439
12	Net energy used in Canada	9,784,365 ^r	10,645,266	183,726	10,158	179,095
13	Secondary energy used in Canada(1)	323,976	328,626	48	-	-
14	Firm energy used in Canada	9,460,389 ^r	10,316,640	183,678	10,158	179,095

(1) Secondary energy for use in other than electric boilers amounted to 25,745 thousand kwh. in Quebec and 15,402 thousand kwh. in Ontario.

TABLE 2A Supply and Demand of Electric Energy

March 1964

No.		Canada 1963	Canada	Newfoundland	Prince Edward Island	Nova Scotia
		thousand kwh.				
	<u>Supply of electric energy</u>					
	Net generation:					
1	Utilities - Hydro	6,639,450 ^r	7,469,733	157,629	-	64,153
2	Thermal	1,448,533 ^r	1,360,388	5,942	10,336	117,711
3	Totals	8,087,983 ^r	8,830,121	163,571	10,336	181,870
4	Industry - Hydro	1,992,361	2,226,810	33,363	-	3,544
5	Thermal	240,902	299,010	3,240	-	19,812
6	Totals	2,233,263	2,525,820	36,603	-	23,356
7	Grand total - Hydro	8,631,811 ^r	9,696,543	190,992	-	67,703
8	Thermal	1,689,435	1,659,398	9,182	10,336	137,523
9	Total net generation	10,321,246 ^r	11,355,941	200,174	10,336	205,226
	Energy imported:					
10	From other provinces .....	...	...	-	-	181
11	From United States	250,369	207,822	-	-	-
12	Totals	250,369	207,822	-	-	181
13	Total supply of electric energy	10,571,615	11,563,763	200,174	10,336	205,407
	<u>Demand for electric energy</u>					
	Sales:					
14	Domestic .....	..	2,203,444	19,069	3,854	54,528
15	Farm(1) .....	..	91,134	-	-	-
16	General service (commercial) .....	..	938,812	6,466	4,703	35,358
17	Power - Firm .....	..	6,473,577	157,081	-	78,653
18	Secondary .....	..	231,591	467	-	-
19	Total power .....	..	6,705,168	157,548	-	78,653
20	Street lighting .....	..	70,581	450	128	1,532
21	Total sales .....	..	10,009,139	183,533	8,685	170,071
	Energy exported:					
22	To other provinces - Firm .....	...	...	6,832	-	-
23	Secondary .....	...	...	-	-	9,638
24	To United States - Firm	71,195	76,063	-	-	-
25	Secondary	269,279	257,423	-	-	-
26	Total energy exported	340,474	333,486	6,832	-	9,638
27	Unallocated energy(2) .....	..	803,160	9,809	1,474	12,603
28	Distribution by non-respondents .....	..	417,978	-	177	13,095
29	Total demand for electric energy .....	..	11,563,763	200,174	10,336	205,407

(1) Many utilities cannot distinguish between domestic and farm, as they do not keep separate records.

(2) Includes losses, unaccounted for, and cyclical billing adjustment.

TABLE IA. Preliminary Electric Energy Statistics

August 1964

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.	No.
thousand kwh.								
78,419	4,716,862	2,184,178	343,711	130,083	63,703	1,285,016	15,348	1
136,340	34,885	793,202	5,508	122,089	314,025	100,053	5,219	2
214,759	4,751,747	2,977,380	349,219	252,172	377,728	1,385,069	20,567	3
6,296	7,458	596,687	50,476	1,086	4,983	149	-	4
469	47	299,729	-	-	-	3,314	-	5
6,765	7,505	896,416	50,476	1,086	4,983	3,463	-	6
-	355,961	612	1,545	44,364	149	4,983	-	7
2,430	242,124	6,584	-	-	-	-	-	8
10,254	1,164	48,804	-	-	-	262	-	9
7,354	4,814	292,345	-	-	-	3,299	-	10
20,038	604,063	348,345	1,545	44,364	149	8,544	-	11
201,486	4,155,189	3,525,451	398,150	208,894	382,562	1,379,988	20,567	12
-	266,337	42,547	3,210	1,989	-	13,051	1,444	13
201,486	3,888,852	3,482,904	394,940	206,905	382,562	1,366,937	19,123	14

^r Revised figures.

TABLE 2A. Supply and Demand of Electric Energy

March 1964

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.	No.
thousand kwh.								
51,480	3,341,828	2,580,788	426,136	93,001	87,456	651,294	15,962	1
91,330	225	578,404	12,592	189,310	312,651	38,834	3,053	2
147,810	3,342,053	3,159,192	438,728	282,311	400,107	690,128	19,015	3
2,322	1,391,479	127,127	5,487	6,871	-	653,163	3,454	4
30,906	30,840	80,330	2,164	-	32,269	79,449	-	5
53,228	1,422,319	207,457	7,651	6,871	32,269	732,612	3,454	6
53,802	4,733,307	2,707,915	431,623	99,872	87,456	1,304,457	19,416	7
142,236	31,065	658,734	14,756	189,310	344,920	118,283	3,053	8
196,038	4,764,372	3,366,649	446,379	289,182	432,376	1,422,740	22,469	9
11,923	7,895	683,133	82,132	1,073	1,678	5,674	-	10
794	67	205,106	-	-	-	1,855	-	11
12,717	7,962	888,239	82,132	1,073	1,678	7,529	-	12
208,755	4,772,334	4,254,888	528,529	290,255	434,054	1,430,269	22,469	13
38,317	638,737	936,595	138,371	55,741	82,933	233,265	2,034	14
-	-	-	32,230	29,188	29,716	-	-	15
20,236	194,746	362,138	63,305	34,141	61,606	153,085	3,028	16
112,231	2,793,380	1,924,592	228,593	68,001	182,959	919,478	8,609	17
-	121,886	58,157	12,506	1,638	-	29,866	7,071	18
112,231	2,915,266	1,982,749	241,099	69,639	182,959	949,344	15,680	19
1,437	17,651	26,629	5,240	2,401	7,677	7,399	37	20
172,221	3,766,400	3,308,111	480,245	191,110	364,891	1,343,093	20,779	21
-	376,463	1,056	1,149	52,444	5,674	1,678	-	22
181	308,879	29,695	-	-	-	-	-	23
14,762	1,445	59,703	-	-	-	153	-	24
5,788	1,406	247,538	-	-	-	2,691	-	25
20,731	688,193	337,992	1,149	52,444	5,674	4,522	-	26
13,657	277,564	274,609	47,135	44,306	56,534	64,984	503	27
2,146	40,177	334,176	-	2,395	6,955	17,670	1,187	28
208,755	4,772,334	4,254,888	528,529	290,255	434,054	1,430,269	22,469	29

^r Revised figures.

... Figures not appropriate or not applicable.

TABLE 1B. Preliminary Electric Energy Statistics

June 1964

No.		Canada 1963	Canada	Newfoundland	Prince Edward Island	Nova Scotia
				thousand kwh.		
1	Net generation - Hydro	8,385,466 ^r	9,259,420 ^r	177,699	-	48,307
2	Thermal	1,068,987 ^r	1,192,204 ^r	5,804	8,782	123,702
3	Total net generation	9,454,453 ^r	10,451,624 ^r	183,503	8,782	172,009
	Energy imported:					
4	From other provinces .....	...	...	-	-	4,881
5	From United States	239,210	268,675	-	-	-
6	Totals	239,210	268,675	-	-	4,881
	Energy exported:					
7	To other provinces - Firm .....	...	...	4,019	-	-
8	Secondary .....	...	...	2,469	-	380
9	To United States - Firm	71,994	69,728	-	-	-
10	Secondary	243,061	196,215	-	-	-
11	Totals	315,055	265,943	6,488	-	380
12	Net energy used in Canada	9,378,608 ^r	10,454,356	177,015	8,782	176,510
13	Secondary energy used in Canada(1)	304,660	296,945 ^r	164	-	-
14	Firm energy used in Canada	9,073,948 ^r	10,157,411 ^r	176,851	8,782	176,510

(1) Secondary energy for use in other than electric boilers amounted to 59,494 thousand kwh. in Quebec and 17,778 thousand kwh. in Ontario.

TABLE 2B. Supply and Demand of Electric Energy

April 1964

No.		Canada 1963	Canada	Newfoundland	Prince Edward Island	Nova Scotia
				thousand kwh.		
<u>Supply of electric energy</u>						
	Net generation:					
1	Utilities - Hydro	6,751,453	7,145,512	152,622	-	68,931
2	Thermal	961,044	1,227,732	3,083	9,529	87,814
3	Totals	7,712,497	8,373,244	155,705	9,529	156,705
4	Industry - Hydro	1,934,008	2,178,439	30,922	-	3,412
5	Thermal	230,106	287,542	2,483	-	18,839
6	Totals	2,164,114	2,465,981	33,405	-	22,251
7	Grand total - Hydro	8,685,461	9,323,951	183,544	-	72,303
8	Thermal	1,191,150	1,515,274	5,566	9,529	106,653
9	Total net generation	9,876,611	10,839,225	189,110	9,529	178,956
	Energy imported:					
10	From other provinces .....	...	...	-	-	7,974
11	From United States	191,862	182,453	-	-	-
12	Totals	191,862	182,453	-	-	7,974
13	Total supply of electric energy	10,068,473	11,021,678	189,110	9,529	186,930
<u>Demand for electric energy</u>						
	Sales:					
14	Domestic .....	...	2,096,791	19,583	3,769	48,074
15	Farm(1) .....	...	87,051	-	-	-
16	General service (commercial) .....	...	933,433	6,295	4,107	33,862
17	Power - Firm .....	...	6,302,515	150,372	-	77,023
18	Secondary .....	...	216,875	189	-	-
19	Total power .....	...	6,519,390	150,561	-	77,023
20	Street lighting .....	...	64,935	482	128	1,496
21	Total sales .....	...	9,701,600	176,921	8,004	160,455
	Energy exported:					
22	To other provinces - Firm .....	...	...	5,509	-	-
23	Secondary .....	...	...	-	-	2,903
24	To United States - Firm	68,456	76,286	-	-	-
25	Secondary	229,841	267,339	-	-	-
26	Total energy exported	298,297	343,625	5,509	-	2,903
27	Unallocated energy(2) .....	...	588,412	6,680	1,372	11,683
28	Distribution by non-respondents .....	...	388,041	-	153	11,883
29	Total demand for electric energy .....	...	11,021,678	189,110	9,529	186,930

(1) Many utilities cannot distinguish between domestic and farm, as they do not keep separate records.

(2) Includes losses, unaccounted for, and cyclical billing adjustment.

TABLE 1B. Preliminary Electric Energy Statistics
June 1964

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.	No.
thousand kwh.								
134,760	4,421,837	2,657,517 ^r	375,942	127,805	86,321	1,214,085	15,147	1
78,384	30,469	446,327 ^r	6,178	117,873	285,204	87,277	2,204	2
213,144	4,452,306	3,103,844 ^r	382,120	245,678	371,525	1,301,362	17,351	3
2,194	8,660	488,163	61,817	936	4,017	-	-	4
535	54	265,004	-	-	-	3,082	-	5
2,729	8,714	753,167	61,817	936	4,017	3,082	-	6
-	355,880	-	1,255	47,242	-	4,017	-	7
4,881	133,778	16,747	-	-	-	-	-	8
14,723	1,194	53,641	-	-	-	170	-	9
4,821	1,490	186,961	-	-	-	2,943	-	10
24,425	492,342	257,349	1,255	47,242	-	7,130	-	11
191,448	3,968,678	3,599,662	442,682	199,372	375,542	1,297,314	17,351	12
30	206,897 ^r	56,314	10,616	1,792	-	17,783	3,349	13
191,418	3,761,781 ^r	3,543,348	432,066	197,580	375,542	1,279,531	14,002	14

^r Revised figures.

TABLE 2B. Supply and Demand of Electric Energy
April 1964

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.	No.
thousand kwh.								
31,431	3,142,407	2,480,063	397,086	115,035	66,318	614,160	13,499	1
32,664	151	587,496	4,327	134,572	284,931	50,546	2,619	2
158,095	3,142,558	3,067,559	401,413	249,607	351,249	664,706	16,118	3
5,318	1,363,548	128,849	5,678	5,774	-	631,689	3,249	4
49,896	25,494	77,583	2,665	-	30,541	80,041	-	5
55,214	1,389,042	206,432	8,343	5,774	30,541	711,730	3,249	6
100,749	4,505,955	2,608,912	402,764	120,809	66,318	1,245,849	16,748	7
112,560	25,645	665,079	6,992	134,572	315,472	130,587	2,619	8
213,309	4,531,600	3,273,991	409,756	255,381	381,790	1,376,436	19,367	9
5,001	6,996	635,855	58,489	1,196	297	3,894	-	10
572	68	178,458	-	-	-	3,355	-	11
5,573	7,064	814,313	58,489	1,196	297	7,249	-	12
218,882	4,538,664	4,088,304	468,245	256,577	382,087	1,383,685	19,367	13
38,075	611,559	901,812	132,052	54,334	83,503	203,105	925	14
-	-	-	29,688	27,914	29,449	-	-	15
19,166	204,389	379,308	57,913	33,127	61,413	131,919	1,934	16
119,455	2,693,578	1,872,692	215,476	73,018	181,397	911,231	8,273	17
117	118,265	54,160	11,707	845	-	25,637	5,955	18
119,572	2,811,843	1,926,852	227,183	73,863	181,397	936,868	14,228	19
1,622	17,586	24,329	4,303	2,176	6,315	6,469	29	20
178,435	3,645,377	3,232,301	451,139	191,414	362,077	1,278,361	17,116	21
-	372,246	1,440	1,484	49,179	297	3,894	-	22
7,974	262,827	9,357	2,592	-	-	-	-	23
15,297	1,317	59,538	-	-	-	134	-	24
8,193	1,685	255,022	-	-	-	2,439	-	25
31,464	638,075	325,357	4,076	49,179	297	6,467	-	26
6,951	216,966	220,746	13,030	13,855	12,111	83,754	1,264	27
2,032	38,246	309,900	-	2,129	7,602	15,103	987	28
218,882	4,538,664	4,088,304	468,245	256,577	382,087	1,383,685	19,367	29

^r Revised figures.

.. Figures not appropriate or not applicable.

TABLE 3. Supply of Electric Energy

January - August 1964

Month	Total net generation	Imports from United States	Exports to United States	Net energy used in Canada	Secondary energy used in Canada	Firm energy used in Canada	Daily average total net generation
thousand kwh.							
January	11,674,881	181,965	406,713	11,450,133	250,727	11,199,406	376,609
February	10,856,487	206,294	342,852	10,719,929	235,561	10,484,368	374,362
March	11,355,941 ^r	207,822	333,486	11,230,277 ^r	231,591 ^r	10,998,686 ^r	366,321 ^r
April	10,839,225 ^r	182,453	343,625	10,678,053 ^r	216,875 ^r	10,461,178 ^r	361,308 ^r
May	10,731,666	244,896	336,816	10,639,746	278,867	10,360,879	346,186
June	10,451,624	268,675	265,943	10,454,356	296,945	10,157,411	339,187
July	10,633,406	279,464	337,604	10,575,266	382,608	10,192,658	343,013
August	10,710,003	303,559	368,296	10,645,266	328,626	10,316,640	345,484
September							
October							
November							
December							
Year							

^r Revised figures.

TABLE 4. Sales of Electric Energy to Ultimate Customers

January - April 1964

Month	Domestic	Farm(1)	General service (commercial)	Firm power	Secondary power	Total power	Street lighting	Total sales to ultimate customers
thousand kwh.								
January	2,424,569	83,464	950,408	6,255,348	250,727	6,506,075	78,985	10,043,501
February	2,312,091	92,606	934,538	6,035,298	235,561	6,270,859	71,711	9,681,805
March	2,203,444	91,134	938,812	6,473,577	231,591	6,705,168	70,581	10,009,139
April	2,096,791	87,051	933,433	6,302,515	216,875	6,519,390	64,935	9,701,600
May								
June								
July								
August								
September								
October								
November								
December								
Year								

(1) Many utilities cannot distinguish between domestic and farm, as they do not keep separate records.

TABLE 5. Net Generation, 1960-64

CANADA

Year and month	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
thousand kwh.							
1960	83,024,886	5,957,979	88,982,865	22,743,499	2,313,010	25,056,509	114,039,375
1961	82,014,614	7,049,079	89,063,693	21,660,132	2,497,588	24,157,720	113,221,413
1962	80,861,406	10,781,660	91,643,066	22,789,817	2,570,288	25,360,105	117,003,171
1963	80,214,421	15,428,726	95,643,147	23,102,958	2,811,630	25,914,588	121,557,735
1964							
1964 - January	7,431,032	1,738,748	9,169,780	2,224,468	280,633	2,505,101	11,674,881
February	6,974,373	1,511,183	8,485,556	2,086,693	284,238	2,370,931	10,856,487
March	7,469,733 ^r	1,360,388 ^r	8,830,121 ^r	2,226,810 ^r	299,010 ^r	2,525,820 ^r	11,355,941 ^r
April	7,145,512 ^r	1,227,732 ^r	8,373,244 ^r	2,178,439 ^r	287,542 ^r	2,465,981 ^r	10,839,225 ^r
May	7,326,441	858,015	8,184,456	2,255,018	292,192	2,547,210	10,731,666
June	6,871,958	928,685	7,800,643	2,387,462	263,519	2,650,981	10,451,624
July	6,842,234	1,090,081	7,932,315	2,427,533	273,558	2,701,091	10,633,406
August	6,569,172	1,361,238	7,930,410	2,480,664	298,929	2,779,593	10,710,003
September							
October							
November							
December							

^r Revised figures.



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