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DOMINION BUREAU
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This report is the first of a revised series which contains several conceptual additions. Table 1 contains preliminary statistics on energy generation, imports, exports and secondary for the current month. These preliminary statistics indicate that total net generation increased 11.1 per cent to 10,451,624 thousand kwh. in June 1964 from 9,455,092 thousand kwh. generated one year ago.

Imports increased to 268,675 thousand kwh. from 239,210 thousand kwh. and exports decreased to 265,943 thousand kwh. from 315,055 thousand kwh. in June 1963.

Firm energy used in Canada rose to 10,175,598 thousand kwh. from 9,074,587 thousand kwh. in June 1963. These two figures are not directly comparable as the 278,758 thousand kwh. of secondary energy used in Canada in June 1964 is composed of 202,633 thousand kwh. used in electric boilers and 76,125 thousand kwh. of secondary energy used for other purposes whereas the 304,660 thousand kwh. used in 1963 was electric boiler load only.

Table 2 shows for the first time final data for the supply and demand of electric energy monthly. 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. Comparable January 1963 data is shown for all categories where it is available. It is expected that the present delay of six months between the publication of the preliminary and final data will be gradually reduced as reporting procedures and compilation methods become more refined.

Tables 3, 4 and 5 give final data for January 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 for the months of January and June. In January, of the 250,727 thousand kwh. of secondary energy, 183,198 thousand kwh. were used in electric boilers and 67,529 thousand kwh. were used for other purposes. The months of February to May include secondary energy used in electric boilers only and will be revised in future reports.

The total net generation for the twelve-month period ending June 30, 1964 amounted to 127,288,019 thousand kwh. compared to 126,295,183 for the period ending in May.

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

August 1964
6511-513

TABLE 1. Preliminary Electric Energy Statistics

June 1964

No.		Canada 1963	Canada	Newfoundland	Prince Edward Island	Nova Scotia
				thousand kwh.		
1	Net generation - Hydro	7,423,454	9,260,248	177,699	-	48,307
2	Thermal	2,031,638	1,191,376	5,804	8,782	123,702
3	Total net generation	9,455,092	10,451,624	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	9,379,247	10,454,356	177,015	8,782	176,510
13	Secondary energy used in Canada	304,660 ^r (1)	278,758	164	-	-
14	Firm energy used in Canada	9,074,587 ^r	10,175,598	176,851	8,782	176,510

(1) Includes only the secondary energy which was used in electric boilers.

^r Revised figures.

TABLE 2. Supply and Demand of Electric Energy

January 1964

No.		Canada 1963 ^r	Canada	Newfoundland	Prince Edward Island	Nova Scotia
				thousand kwh.		
	<u>Supply of electric energy</u>					
	Net generation:					
1	Utilities - Hydro	6,634,051	7,431,032	162,639	-	67,333
2	Thermal	1,787,849	1,738,748	9,250	11,125	126,307
3	Totals	8,421,900	9,169,780	171,889	11,125	193,790
4	Industry - Hydro	2,057,952	2,224,468	34,184	-	3,053
5	Thermal	218,220	280,633	4,050	-	16,862
6	Totals	2,276,172	2,505,101	38,234	-	20,815
7	Grand total - Hydro	8,692,003	9,655,500	196,823	-	71,236
8	Thermal	2,006,069	2,019,381	13,300	11,125	143,369
9	Total net generation	10,698,072	11,674,881	210,123	11,125	214,605
	Energy imported:					
10	From other provinces .....	...	...	-	-	347
11	From United States	264,530	181,965	-	-	-
12	Totals	264,530	181,965	-	-	347
13	Total supply of electric energy	10,962,602	11,856,846	210,123	11,125	214,952
	<u>Demand for electric energy</u>					
	Sales:					
14	Domestic .....	..	2,424,569	23,326	4,828	63,005
15	Farm(1) .....	..	83,464	-	-	-
16	General service (commercial) .....	..	950,408	7,499	5,040	43,896
17	Power - Firm .....	..	6,255,348	156,507	11	83,812
18	Secondary .....	..	250,727	7,622	-	-
19	Total power .....	..	6,506,075	164,129	11	83,812
20	Street lighting .....	..	78,985	657	141	2,494
21	Total sales .....	..	10,043,501	195,611	10,020	193,207
	Energy exported:					
22	To other provinces - Firm .....	...	...	8,150	-	760
23	Secondary .....	...	...	-	-	10,320
24	To United States - Firm	69,645	73,708	-	-	-
25	Secondary	266,251	333,005	-	-	-
26	Total energy exported	335,896	406,713	8,150	-	11,080
27	Unallocated energy(2) .....	..	961,196	6,362	915	- 3,063
28	Distribution by non-respondents .....	..	445,436	-	190	13,728
29	Total demand for electric energy .....	..	11,856,846	210,123	11,125	214,952

(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.

.. Not available.

TABLE 1. 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	2,658,345	375,942	127,805	86,321	1,214,085	15,147	1
78,384	30,469	445,499	6,178	117,873	285,204	87,277	2,204	2
213,144	4,452,306	3,103,844	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	188,710	56,314	10,616	1,792	-	17,783	3,349	13
191,418	3,779,968	3,543,348	432,066	197,580	375,542	1,279,531	14,002	14

TABLE 2. Supply and Demand of Electric Energy
January 1964

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.	No.
thousand kwh.								
46,047	3,381,369	2,449,752	446,741	95,119	72,813	672,604	16,665	1
79,290	92	898,067	23,016	197,490	351,020	39,874	3,017	2
145,337	3,381,461	3,347,819	469,757	292,609	423,833	712,478	19,682	3
4,074	1,408,431	122,654	5,715	6,755	-	635,226	3,476	4
48,890	26,738	79,892	2,146	-	30,373	71,682	-	5
52,964	1,435,169	202,546	7,861	6,755	30,373	706,908	3,476	6
70,121	4,789,800	2,572,406	452,456	101,874	72,813	1,307,830	20,141	7
128,180	26,830	977,959	25,162	197,490	381,393	111,556	3,017	8
198,301	4,816,630	3,550,365	477,618	299,364	454,206	1,419,386	23,158	9
13,082	9,638	684,889	81,986	1,215	1,666	4,113	-	10
1,066	76	179,260	-	-	-	1,563	-	11
14,148	9,714	864,149	81,986	1,215	1,666	5,676	-	12
212,449	4,826,344	4,414,514	559,604	300,579	455,872	1,425,062	23,158	13
47,888	673,192	1,020,626	161,738	69,213	105,286	254,081	1,386	14
-	-	-	30,855	24,818	27,791	-	-	15
22,375	217,297	335,557	67,182	37,101	70,312	142,605	1,544	16
108,928	2,745,149	1,811,174	229,789	70,721	187,914	850,953	10,390	17
-	131,968	45,338	17,718	1,519	-	40,171	6,391	18
108,928	2,877,117	1,856,512	247,507	72,240	187,914	891,124	16,781	19
1,727	18,790	27,286	7,090	3,013	8,904	8,846	37	20
180,918	3,786,396	3,239,981	514,372	206,385	400,207	1,296,656	19,748	21
-	384,262	1,488	1,331	54,795	4,113	1,666	-	22
347	302,513	27,191	-	-	-	-	-	23
13,692	1,499	58,363	-	-	-	154	-	24
6,786	5,151	319,453	-	-	-	1,615	-	25
20,825	693,425	406,495	1,331	54,795	4,113	3,435	-	26
8,370	304,019	411,270	43,901	36,584	43,781	105,717	3,340	27
2,336	42,504	356,768	-	2,815	7,771	19,254	70	28
212,449	4,826,344	4,414,514	559,604	300,579	455,872	1,425,062	23,158	29

... Figures not appropriate or not applicable.



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TABLE 3. Supply of Electric Energy
January - June 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 ^r	181,965	406,713	11,450,133 ^r	250,727 ^r	11,199,406 ^r	376,609 ^r
February	10,856,139	206,294	342,852	10,719,581	212,024(1)	10,507,557	374,350
March	11,358,497	207,822	333,486	11,232,833	223,013(1)	11,009,820	366,403
April	10,842,875 ^r	182,453	343,625	10,681,703 ^r	187,646(1)	10,494,057 ^r	361,423
May	10,731,666 ^r	244,896	336,816	10,639,746 ^r	278,867(1)	10,360,879 ^r	346,186
June	10,451,624	268,675	265,943	10,454,356	278,758	10,175,598	339,187
July							
August							
September							
October							
November							
December							
Year							

(1) February - May figures include only the secondary energy which was used in electric boilers (see text).

^r Revised figures.

TABLE 4. Sales of Electric Energy to Ultimate Customers
January 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 2,226,279	83,464	950,408	6,255,348	250,727	6,506,075	78,985	10,043,501
February								
March								
April								
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 ^r	1,738,748 ^r	9,169,780 ^r	2,224,468 ^r	280,633 ^r	2,505,101 ^r	11,674,881 ^r
February ...	6,974,364	1,511,184	8,485,548	2,086,693	283,898	2,370,591	10,856,139
March	7,469,746	1,360,389	8,830,135	2,229,351	299,011	2,528,362	11,358,497
April	7,146,081	1,227,734	8,373,815	2,181,519	287,541 ^r	2,469,060 ^r	10,842,875 ^r
May	7,326,441	858,015	8,184,456	2,255,018	292,192 ^r	2,547,210 ^r	10,731,666 ^r
June	6,871,958	928,685	7,800,643	2,388,290	262,691	2,650,981	10,451,624
July							
August							
September ..							
October							
November ...							
December ...							

^r Revised figures.