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DOMINION BUREAU OF STATISTICS

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ELECTRIC POWER STATISTICS

MARCH 1966

This report is the first of a new series which includes cumulative electric energy statistics for the year to date. These data are shown in Tables 3 and 4.

Table 1 of this report contains preliminary statistics on energy generation, imports, exports and secondary for the month of March 1966. These preliminary statistics indicate that net generation increased 9.8 per cent to 13,615,747 thousand kwh. in March 1966 from 12,402,808 thousand kwh. generated one year ago.

Imports decreased to 215,900 thousand kwh. from 297,298 thousand kwh. and exports increased to 304,959 thousand kwh. from 292,847 thousand kwh. in March 1965.

Table 2 shows detailed data concerning the amount of energy made available and the disposition of this energy for the month of January 1966. 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 31). 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 used in own plant (items 20 and 21). Comparable January 1965 data is shown for all categories where available.

Tables 5, 6 and 7 give final data for the month of January 1966 and preliminary data for other months. In Table 5 secondary energy includes both that used in own plant and that sold to ultimate customers. In January of the 318,152 thousand kwh. of secondary energy 203,037 thousand kwh. was used in the plants, 121,101 was sold to ultimate customers.

The total generation for the twelve-month period ending March 31, 1966 amounted to 146,855,094 thousand kwh. compared to 145,642,155^r kwh. for the period ending in February.

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 99.5 per cent of total production in 1964.

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

Industry Division

May 1966
6503-513

DOMINION BUREAU
OF STATISTICS

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TABLE 1. Preliminary Electric Energy Statistics
March 1966

No.		Canada 1965	Canada	Newfound- land	Prince Edward Island
		thousand kwh.			
1	Net generation - Hydro	10,000,484	11,197,840	212,741	-
2	Thermal	2,402,324	2,417,907	23,173	12,729
3	Total net generation (1 + 2)	12,402,808	13,615,747	235,914	12,729
4	Energy received from other provinces and imported:				
5	Received from other provinces	297,298	215,900	-	-
6	Imported from United States	297,298	215,900	-	-
(4 + 5)	Total received from other provinces and imported	297,298	215,900	-	-
7	Energy delivered to other provinces and exported:				
8	Delivered to other provinces - Firm .....	...	...	6,888	-
9	Secondary .....	...	...	-	-
10	Exported to United States - Firm	69,456	56,674	-	-
11	Secondary	223,391	248,285	-	-
12	Total delivered to other provinces and exported (7 + 8 + 9 + 10)	292,847	304,959	6,888	-
13	Total made available for use in Canada (3 + 6 - 11)	12,407,259	13,526,688	229,026	12,729
14	Secondary energy used in Canada(1)	307,407	318,152	-	-
(12 - 13)	Firm energy made available for use in Canada	12,099,852	13,208,536	229,026	12,729

(1) Includes secondary energy used in own plant and sold to ultimate customers.

TABLE 2. Supply and Disposal of Electric Energy
January 1966

No.		Canada 1965	Canada	Newfound- land	Prince Edward Island
		thousand kwh.			
	<u>Supply of electric energy</u>				
1	Net generation:				
2	Utilities - Hydro	7,361,809	8,617,208 ^r	194,408	-
3	Thermal	2,419,767	2,413,701 ^r	15,062	13,757
4	Totals (1 + 2)	9,781,576	11,030,909 ^r	209,470	13,757
5	Industry - Hydro	2,509,096	2,600,803 ^r	37,869	-
6	Thermal	317,797	332,018	5,612	-
7	Totals (4 + 5)	2,826,893	2,932,821 ^r	43,481	-
8	Grand total - Hydro (1 + 4)	9,870,905	11,218,011 ^r	232,277	-
9	Thermal (2 + 5)	2,737,564	2,745,719 ^r	20,674	13,757
10	Total net generation (7 + 8)	12,608,469	13,963,730 ^r	252,951	13,757
11	Energy received from other provinces and imported:				
12	Received from other provinces .....	...	...	-	-
13	Imported from United States	282,875	245,055	-	-
14	Total received from other provinces and imported (10 + 11)	282,875	245,055	-	-
15	Total supply of energy (9 + 12)	12,819,344	14,208,785	252,951	13,757
	<u>Disposal of electric energy</u>				
16	Energy delivered to other provinces and exported:				
17	Delivered to other provinces - Firm .....	...	...	7,190	-
18	Secondary .....	...	...	-	-
19	Exported to United States - Firm	66,250	50,630	-	-
20	Secondary	238,322	260,762 ^r	-	-
21	Total delivered to other provinces and exported (14 + 15 + 16 + 17)	304,572	311,392 ^r	7,190	-
22	Total made available for use in Canada (13 - 18)	12,514,772	13,897,393	245,761	13,757
23	Energy used in own plant - Firm .....	... (3)	2,944,540	36,291	-
24	Secondary .....	... (3)	203,037	-	-
25	Total used in own plant (20 + 21) .....	... (3)	3,147,577	36,291	-
26	Sales to ultimate customers:				
27	Power - Firm	6,796,731 ^r	4,506,202	163,823	400
28	Secondary	305,220 ^r	121,101 ^r	64 ^r	989 ^r
29	General service (commercial)	1,118,380	1,214,383	9,143	5,020
30	Domestic	2,576,617 ^r	2,732,447	27,557	6,104
31	Farm(1)	98,686	98,297	-	-
32	Street lighting	84,894	91,290	953	184
33	Total sales to ultimate customers (23 + 24 + 25 + 26 + 27 + 28)	10,980,528 ^r	8,763,720	201,540	12,697
34	Unallocated energy(2)	1,016,382 ^r	1,385,973	6,706	786
35	Distribution by non-respondents	517,862	600,123	1,224	274
36	Total disposal of energy (18 + 22 + 29 + 30 + 31)	12,819,344	14,208,785	252,951	13,757

(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 1. Preliminary Electric Energy Statistics
March 1966

Nova Scotia	New-Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.	No.
thousand kwh.									
49,547	116,148	5,274,782	3,277,616	566,763	133,161	122,593	1,419,986	24,503	1
202,620	148,110	36,240	1,023,497	853	193,256	408,010	366,498	2,921	2
252,167	264,258	5,311,022	4,301,113	567,616	326,417	530,603	1,786,484	27,424	3
1,461	24,266	12,446	459,428	55,012	38,917	2,119	4,004	-	4
-	529	84	172,592	-	-	-	42,695	-	5
1,461	24,795	12,530	632,020	55,012	38,917	2,119	46,699	-	6
10,276	-	397,884	-	640	54,390	4,004	2,119	-	7
8,764	1,461	66,170	6,174	38,877	6	-	-	-	8
-	21,226	1,110	34,121	-	-	-	217	-	9
-	8,726	-	191,830	-	-	-	47,729	-	10
19,040	31,413	465,164	232,125	39,517	54,396	4,004	50,065	-	11
234,588	257,640	4,858,388	4,701,008	583,111	310,938	528,718	1,783,118	27,424	12
-	-	175,975	67,110	34,353	1,176	-	32,814	6,724	13
234,588	257,640	4,682,413	4,633,898	548,758	309,762	528,718	1,750,304	20,700	14

... Figures not appropriate or not applicable.

TABLE 2. Supply and Disposal of Electric Energy
January 1966

Nova Scotia	New-Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.	No.
thousand kwh.									
23,316	69,212 ^r	3,616,962 ^r	3,070,472	598,062	107,863	158,571	755,101	23,241	1
214,116	129,391	19,392 ^r	1,107,226	16,847	270,505	424,039	200,352	3,014	2
237,432	198,603 ^r	3,636,354 ^r	4,177,698	614,909	378,368	582,610	955,453	26,255	3
1,777	2,761	1,668,920 ^r	141,894	5,509	6,658	-	731,795	3,620	4
20,847	51,497	30,503	88,911	6	8,844	29,489	96,309	-	5
22,624	54,258	1,699,423 ^r	230,805	5,515	15,502	29,489	828,104	3,620	6
25,093	71,973 ^r	5,285,882 ^r	3,212,366	603,571	114,521	158,571	1,486,896	26,861	7
234,963	180,888	49,895 ^r	1,196,137	16,853	279,349	453,528	296,661	3,014	8
260,056	252,861 ^r	5,335,777 ^r	4,408,503	620,424	393,870	612,099	1,783,557	29,875	9
936	25,444	14,608	449,370 ^r	57,586 ^r	28,134	1,911	5,677	-	10
-	711	88	187,575	-	-	-	56,681	-	11
936	26,155	14,696	636,945 ^r	57,586 ^r	28,134	1,911	62,358	-	12
260,992	279,016	5,350,473	5,045,448	678,010	422,004	614,010	1,845,915	29,875	13
11,848	-	382,028 ^r	-	794	55,475 ^r	5,677	1,911	-	14
7,632	936	72,795	9,367	27,851	162	-	-	-	15
-	14,993	1,411	33,979	-	-	-	247	-	16
-	4,734	407	197,249	-	-	-	58,372 ^r	-	17
19,480	20,663	456,641 ^r	240,595	28,645	55,637 ^r	5,677	60,530 ^r	-	18
241,512	258,353	4,893,832	4,804,853	649,365	366,367	608,333	1,785,385	29,875	19
26,858	90,678	1,391,161	474,196	53,261	13,329	39,341	816,253	3,172	20
-	-	140,647	24,035	8,030	1,187	-	28,574	564	21
26,858	90,678	1,531,808	498,231	61,291	14,516	39,341	844,827	3,736	22
61,132	63,844	1,736,512	1,685,843	201,232	94,791	187,299	299,366	11,960	23
1,370 ^r	5,403	55,183 ^r	38,127 ^r	13,448	-	330 ^r	-	6,187 ^r	24
47,206	29,564	236,061	472,881	79,882	59,065	85,012	188,283	2,266	25
67,193	54,522	788,916	1,064,043	179,475	87,263	130,934	324,330	2,110	26
-	-	-	-	34,355	30,149	33,793	-	-	27
2,101	1,667	24,781	29,087	7,469	3,367	10,905	10,699	77	28
179,002	155,000	2,841,453	3,289,981	515,861	274,635	448,273	822,678	22,600	29
18,767	10,007	461,333	537,953	72,213	72,706	109,955	93,443	2,104	30
16,885	2,668	59,238	478,688	-	4,510	10,764	24,437	1,435	31
260,992	279,016	5,350,473	5,045,448	678,010	422,004	614,010	1,845,915	29,875	32

(3) Amount used in own plant is included in firm and secondary power sales in 1965.

... Figures not appropriate or not applicable.

TABLE 3. Cumulative Preliminary Electric Energy Statistics
January - March 1966

No.		Canada 1965	Canada	Newfound- land	Prince Edward Island
thousand kwh.					
1	Net generation - Hydro	28,962,169	32,573,524	639,915	-
2	Thermal	7,533,384	7,616,445	62,864	38,800
3	Total net generation (1 + 2)	36,495,553	40,189,969	702,779	38,800
Energy received from other provinces and imported:					
4	Received from other provinces	849,531	673,974	-	-
5	Imported from United States	849,531	673,974	-	-
6	Total received from other provinces and imported (4 + 5)	849,531	673,974	-	-
Energy delivered to other provinces and exported:					
7	Delivered to other provinces - Firm .....	...	...	19,233	-
8	Secondary .....	...	...	-	-
9	Exported to United States - Firm	198,925	152,038	-	-
10	Secondary	676,844	742,631	-	-
11	Total delivered to other provinces and exported (7 + 8 + 9 + 10)	875,769	894,669	19,233	-
12	Total made available for use in Canada (3 + 6 - 11)	36,668,240	39,969,274	683,546	38,800
13	Secondary energy used in Canada(1)	887,139	941,366	64	989
14	Firm energy made available for use in Canada (12 - 13)	35,781,101	39,027,908	683,482	37,811

(1) Includes secondary energy used in own plant and sold to ultimate customers.

TABLE 4. Cumulative Supply and Disposal of Electric Energy
January - December 1965

No.		Canada 1964	Canada	Newfound- land	Prince Edward Island
thousand kwh.					
<u>Supply of electric energy</u>					
Net generation:					
1	Utilities - Hydro	84,888,835	87,490,735	2,067,725	-
2	Thermal	17,588,035	22,572,614	171,829	136,591
3	Totals (1 + 2)	102,476,870	110,063,349	2,239,554	136,591
4	Industry - Hydro	28,336,790	29,219,645	414,296	-
5	Thermal	3,478,537	3,877,684	63,447	-
6	Totals (4 + 5)	31,815,327	33,097,329	477,743	-
7	Grand total - Hydro (1 + 4)	113,225,625	116,710,380	2,482,021	-
8	Thermal (2 + 5)	21,066,572	26,450,298	235,276	136,591
9	Total net generation (7 + 8)	134,292,197	143,160,678	2,717,297	136,591
Energy received from other provinces and imported:					
10	Received from other provinces .....	...	...	-	-
11	Imported from United States	2,975,610	3,577,639	-	-
12	Total received from other provinces and imported (10 + 11)	2,975,610	3,577,639	-	-
13	Total supply of energy (9 + 12)	137,267,807	146,738,317	2,717,297	136,591
<u>Disposal of electric energy</u>					
Energy delivered to other provinces and exported:					
14	Delivered to other provinces - Firm .....	...	...	84,067	-
15	Secondary .....	...	...	-	-
16	Exported to United States - Firm	832,784	634,691	-	-
17	Secondary	3,351,997	2,935,541	-	-
18	Total delivered to other provinces and exported (14 + 15 + 16 + 17)	4,184,781	3,570,232	84,067	-
19	Total made available for use in Canada (13 - 18) ..	133,083,026	143,168,085	2,633,230	136,591
20	Energy used in own plant - Firm .....	... (3)	... (3)	...	...
21	Secondary .....	... (3)	... (3)	...	...
22	Total used in own plant (20 + 21) .....	... (3)	... (3)	...	...
Sales to ultimate customers:					
23	Power - Firm	76,994,091	82,854,369	2,184,602	9,134
24	Secondary	3,415,366	3,809,402	2,791	-
25	General service (commercial)	11,082,698	12,398,338	88,815	55,659
26	Domestic	23,934,160	25,795,091	244,455	53,432
27	Farm(1)	945,237	1,092,482	-	-
28	Street lighting	835,158	917,637	8,232	1,722
29	Total sales to ultimate customers (23 + 24 + 25 + 26 + 27 + 28)	117,206,710	126,867,319	2,528,895	119,947
30	Unallocated energy(2)	11,057,697	10,633,435	104,335	14,258
31	Distribution by non-respondents	4,818,619	5,667,331	-	2,386
32	Total disposal of energy (18 + 22 + 29 + 30 + 31)	137,267,807	146,738,317	2,717,297	136,591

(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 3. Cumulative Preliminary Electric Energy Statistics
January - March 1966

Nova Scotia	New-Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.	No.
thousand kwh.									
98,464	256,695	15,403,395	9,420,397	1,704,570	347,115	392,945	4,235,289	74,739	1
661,409	483,745	122,401	3,291,506	30,389	702,888	1,257,501	956,644	8,298	2
759,873	740,440	15,525,796	12,711,903	1,734,959	1,050,003	1,650,446	5,191,933	83,037	3
2,483	82,749	41,564	1,317,868	158,747	97,168	6,068	15,091	-	4
-	1,879	261	526,782	-	-	-	145,052	-	5
2,483	84,628	41,825	1,844,650	158,747	97,168	6,068	160,143	-	6
36,601	-	1,133,616	-	2,171	154,935	15,091	6,068	-	7
30,035	5,054	198,732	23,352	96,630	220	-	-	-	8
-	48,698	3,801	98,876	-	-	-	663	-	9
-	19,435	515	571,096	-	-	-	151,585	-	10
66,636	73,187	1,336,664	693,324	98,801	155,155	15,091	158,316	-	11
695,720	751,881	14,230,957	13,863,229	1,794,905	992,016	1,641,423	5,193,760	83,037	12
1,370	5,403	552,866	188,577	76,472	3,403	330	91,955	19,937	13
694,350	746,478	13,678,091	13,674,652	1,718,433	988,613	1,641,093	5,101,805	63,100	14

... Figures not appropriate or not applicable.

TABLE 4. Cumulative Supply and Disposal of Electric Energy
January - December 1965

Nova Scotia	New-Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.	No.
thousand kwh.									
420,084	1,043,322	37,194,225	31,295,264	5,261,952	1,621,502	1,417,865	6,996,022	172,774	1
1,911,483	1,249,215	542,477	10,790,198	217,633	1,911,652	3,710,873	1,897,956	32,707	2
2,331,567	2,292,537	37,736,702	42,085,462	5,479,585	3,533,154	5,128,738	8,893,978	205,481	3
29,103	59,903	18,783,513	1,633,458	-	76,822	-	8,176,878	45,672	4
244,568	601,250	381,831	1,014,285	33,794	79,093	367,553	1,091,863	-	5
273,671	661,153	19,165,344	2,647,743	33,794	155,915	367,553	9,268,741	45,672	6
449,187	1,103,225	55,977,738	32,928,722	5,261,952	1,698,324	1,417,865	15,172,900	218,446	7
2,156,051	1,805,465	924,308	11,804,483	251,427	1,990,745	4,078,426	2,989,819	32,707	8
2,605,238	2,953,690	56,902,046	44,733,205	5,513,379	3,689,069	5,496,291	18,162,719	251,153	9
46,775	205,132	192,009	4,896,387	741,126	109,241	37,944	26,283	-	10
-	17,991	867	2,897,662	-	-	-	661,119	-	11
46,775	223,123	192,876	7,794,049	741,126	109,241	37,944	687,402	-	12
2,652,013	3,176,813	67,094,922	52,527,254	6,254,505	3,798,310	5,534,235	18,850,121	251,153	13
33,750	-	4,543,379	23,623	6,975	565,400	26,283	37,944	-	14
139,873	47,563	380,688	255,224	106,095	4,033	-	-	-	15
-	179,841	14,156	438,258	-	-	-	2,436	-	16
-	56,509	32,744	2,655,478	-	-	-	190,810	-	17
173,623	283,913	4,970,967	3,372,583	113,070	569,433	26,283	231,190	-	18
2,478,390	2,892,900	62,123,955	49,154,671	6,141,435	3,228,877	5,507,952	18,618,931	251,153	19
...	...	...	...	...	...	...	...	...	20
...	...	...	...	...	...	...	...	...	21
...	...	...	...	...	...	...	...	...	22
955,440	1,869,837	34,727,289	24,192,999	2,753,682	1,128,380	2,427,165	12,480,851	124,990	23
389	10,695	2,715,422	660,681	143,280	14,505	4,420	201,423	55,796	24
455,509	290,403	2,640,051	4,888,205	753,524	475,510	833,271	1,895,623	21,768	25
616,902	464,745	7,788,352	10,558,878	1,564,214	705,107	1,061,354	2,720,017	17,635	26
-	-	-	-	358,936	377,607	355,939	-	-	27
21,949	18,596	255,513	324,657	64,629	28,366	96,970	96,339	664	28
2,050,189	2,654,276	48,126,627	40,625,420	5,638,265	2,729,475	4,779,119	17,394,253	220,853	29
259,063	200,420	3,427,136	4,015,484	503,170	461,557	618,575	1,010,973	18,464	30
169,138	38,204	570,192	4,513,767	-	37,845	110,258	213,705	11,836	31
2,652,013	3,176,813	57,094,922	52,527,254	6,254,505	3,798,310	5,534,235	18,850,121	251,153	32

(3) Amount used in own plant is included in firm and secondary power.

... Figures not appropriate or not applicable.

TABLE 5. Supply of Electric Energy
January - March 1966

Month	Total net generation	Imports from United States	Exports to United States	Net energy made available in Canada	Secondary energy used in Canada	Firm energy made available in Canada	Daily average total net generation
thousand kwh.							
January	13,963,730 ^r	245,055	311,392 ^r	13,897,393 ^r	324,138 ^r	13,573,255 ^r	450,443 ^r
February	12,610,492 ^r	213,019 ^r	278,318	12,545,193 ^r	299,076	12,246,117 ^r	450,375 ^r
March	13,615,747	215,900	304,959	13,526,688	318,152	13,208,536	439,218
April							
May							
June							
July							
August							
September							
October							
November							
December							
Year							

^r Revised figures.

TABLE 6. Sales of Electric Energy to Ultimate Customers
January 1966

Year and month	Domestic	Farm(1)	General service (commercial)	Firm power(2)	Secondary power(2)	Total power(2)	Street lighting	Total sales to ultimate customers
thousand kwh.								
1964	23,934,160	945,237	11,082,698	76,994,091	3,415,366	80,409,457	835,158	117,206,710
1965	25,795,091	1,092,482	12,398,338	82,854,369	3,809,402	86,663,771	917,637	126,867,319
1966 - January	2,732,447	98,297	1,214,383	7,450,742	324,138	7,774,880	91,290	11,911,297
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.

(2) Includes sales to industrial establishments with generating facilities.

TABLE 7. Net Generation, 1961-66

CANADA

Year and month	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
thousand kwh.							
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	84,888,835	17,588,035	102,476,870	28,336,790	3,478,537	31,815,327	134,292,197
1965	87,490,735	22,572,614	110,063,349	29,219,645	3,877,684	33,097,329	143,160,678
1966 - January	8,617,208 ^r	2,413,701 ^r	11,030,909 ^r	2,600,803 ^r	332,018	2,932,821 ^r	13,963,730 ^r
February	7,774,155	2,139,395	9,913,550	2,383,518	313,424 ^r	2,696,942 ^r	12,610,492 ^r
March	8,680,269	2,073,002	10,753,271	2,517,571	344,905	2,862,476	13,615,747
April							
May							
June							
July							
August							
September							
October							
November							
December							

^r Revised figures.



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