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MONTHLY

DOMINION BUREAU OF STATISTICS

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ELECTRIC POWER STATISTICS

DECEMBER, 1961

Total net generation by firms having a minimum annual generation of approximately 10 million kilowatt hours increased 3.7 per cent to 10,278,686 mwh. in December, 1961, from the 9,913,681 mwh. generated in the same month one year ago.

Industrial establishments increased their generation by 1.0 per cent to 2,176,218 mwh. from 2,155,584 mwh. and the utilities increased their generation by 4.4 per cent to 8,102,468 mwh. from 7,758,097 mwh. the previous year.

Exports increased to 374,568 mwh. from 305,763 and imports increased to 235,318 mwh. from 81,493.

The amount made available for primary purposes increased by 5.1 per cent to 9,606,631 mwh. from 9,141,571 thereby decreasing the amount used in electric boilers to 532,805 mwh. from 547,840.

Net generation for the year 1961 totalled 113,214,455 mwh. compared with 114,039,374 mwh. in 1960, a decrease of 0.7 per cent. In spite of this decreased generation, which was caused mainly by the summer shut down at Kitimat, the amount made available less the amount used in electric boilers increased by 2.8 per cent to 104,504,114 mwh. from 101,653,544 mwh. in 1960.

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 kilowatt hours per annum. These firms, however, accounted for 99.3 per cent of total production in 1959.

In the electric power series, net generation is defined as total generation less the amount used in station service. The "amount made available for use in Canada" is the sum of net generation, plus imports, less exports. Some of the "amount made available" is sold as surplus or secondary power for use, for the most part, in electric boilers, which is the only form of secondary consumption that can be readily ascertained for all provinces. Energy used in electric boilers is deducted from the "amount made available" in order to provide a figure approximating primary consumption.

Prepared in the Public Utilities Section
Public Finance & Transportation Division

8506-506-121

Electric Energy Made Available

December, 1961

	Canada	Newfoundland	Prince Edward Island	Nova Scotia
	thousand kwh.			
Net generation:				
Utilities:				
Hydro	7,370,796	79,036	-	50,688
Thermal	731,672	13,575	9,407	95,497
Total utilities	8,102,468	92,611	9,407	146,185
Industry:				
Hydro	1,978,392	33,582	-	3,252
Thermal	197,826	3,571	-	10,518
Total industry	2,176,218	37,153	-	13,770
Total net generation	10,278,686	129,764	9,407	159,955
Energy imported:				
From other provinces .....	...	-	-	819
From United States	235,318	-	-	-
Total imported	235,318	-	-	819
Energy exported:				
To other provinces .....	...	9,066	-	2,268
To United States - Primary	96,170	-	-	-
Secondary	278,398	-	-	-
Total exported	374,568	9,066	-	2,268
Energy made available in Canada(1)	10,139,436	120,698	9,407	158,506
Amount used in electric boilers	532,805	2,571	-	-
Energy made available less amount used in boilers	9,606,631	118,127	9,407	158,506
	Cumulative totals, January - December, 1961(2)			
Net generation:				
Utilities:				
Hydro	82,006,514	931,875	-	512,082
Thermal	7,049,079	86,080	88,576	1,179,288
Total utilities	89,055,593	1,017,955	88,576	1,691,290
Industry:				
Hydro	21,660,507	382,657	-	31,257
Thermal	2,498,355	38,729	-	127,504
Total industry	24,158,862	421,386	-	158,761
Total net generation	113,214,455	1,439,341	88,576	1,850,051
Energy imported:				
From other provinces .....	...	-	-	16,527
From United States	1,393,960	-	-	-
Total imported	1,393,960	-	-	16,527
Energy exported:				
To other provinces .....	...	83,444	-	91,125
To United States - Primary	1,109,920	-	-	-
Secondary	3,070,110	-	-	-
Total exported	4,180,030	83,444	-	91,125
Energy made available in Canada(1)	110,428,385	1,355,897	88,576	1,775,453
Amount used in electric boilers	5,924,271	5,640	-	-
Energy made available less amount used in boilers	104,504,114	1,350,257	88,576	1,775,453
December, 1960				
Total net generation	9,913,681 ^r	121,251 ^r	8,265	167,340 ^r
Total energy imported	81,493 ^r	-	-	-
Total energy exported	305,763 ^r	9,371	-	9,525
Total made available in Canada(1)	9,689,411 ^r	111,880 ^r	8,265	157,815 ^r
Amount used in electric boilers	547,840 ^r	1,858	-	-
Total made available less amount used in boilers	9,141,571 ^r	110,022 ^r	8,265	157,815 ^r
January - December, 1960				
Total net generation	114,039,374 ^r	1,478,512 ^r	79,021	1,793,808 ^r
Total energy imported	366,612 ^r	-	-	-
Total energy exported	5,493,820 ^r	84,714	-	79,832 ^r
Total made available in Canada(1)	108,912,166 ^r	1,393,798 ^r	79,021	1,713,965 ^r
Amount used in electric boilers	7,258,622 ^r	73,510	-	-
Total made available less amount used in boilers	101,653,544 ^r	1,320,288 ^r	79,021	1,713,965 ^r

(1) Includes interruptible and at-will energy and energy used in electric boilers.

(2) Cumulative totals, January - December, 1961 include small revisions for the year, which are not included in previous monthly reports.

... Figures not appropriate or not applicable.

r Revised figures.

Electric Energy Made Available

December, 1961

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and N.W.T.
92,808	3,245,827	2,798,149	344,325	55,150	113,774	577,090	13,949
42,044	186	62,715	35,414	189,620	249,304	31,809	2,101
134,852	3,246,013	2,860,864	379,739	244,770	363,078	608,899	16,050
3,955	1,189,663	132,607	4,731	4,847	-	602,467	3,288
46,739	23,412	53,076	-	2,131	23,984	34,395	-
50,694	1,213,075	185,683	4,731	6,978	23,984	636,862	3,288
185,546	4,459,088	3,046,547	384,470	251,748	387,062	1,245,761	19,338
4,147	11,172	585,411	88,989	834	2,033	-	-
1,326	64	232,678	-	-	-	1,250	-
5,473	11,236	818,089	88,989	834	2,033	1,250	-
819	587,290	33,827	834	57,268	-	2,033	-
12,400	30,044	53,604	-	-	-	122	-
9,184	6,658	261,337	5	-	-	1,214	-
22,403	623,992	348,768	839	57,268	-	3,369	-
168,616	3,846,332	3,515,868	472,620	195,314	389,095	1,243,642	19,338
125	418,601	69,210	3,853	-	-	33,447	4,998
168,491	3,427,731	3,446,658	468,767	195,314	389,095	1,210,195	14,340

Cumulative totals, January - December, 1961

938,722	35,840,092	32,184,232	3,540,655	620,050	1,022,692	6,289,682	126,512
375,410	15,188	569,166	249,072	1,801,534	2,423,331	241,876	19,558
1,314,132	35,855,280	32,753,398	3,789,727	2,421,584	3,446,023	6,531,558	146,070
55,308	13,583,744	1,461,327	51,708	38,028	-	6,009,421	47,057
510,154	278,304	642,311	-	50,649	305,357	545,347	-
565,462	13,862,048	2,103,638	51,708	88,677	305,357	6,554,768	47,057
1,879,594	49,717,328	34,857,036	3,841,435	2,510,261	3,751,380	13,086,326	193,127
110,405	103,689	5,836,830	923,988	5,875	35,587	913	-
14,071	607	1,362,298	-	-	-	16,984	-
124,476	104,296	7,199,128	923,988	5,875	35,587	17,897	-
16,527	5,855,840	281,864	6,145	662,369	913	35,587	-
120,830	345,580	641,843	-	-	-	1,667	-
81,852	61,548	2,909,092	37	-	-	17,581	-
219,209	6,262,968	3,832,799	6,182	662,369	913	54,835	-
1,784,861	43,558,656	38,223,365	4,759,241	1,853,767	3,786,054	13,049,388	193,127
919	5,045,757	526,511	57,434	-	-	241,755	46,255
1,783,942	38,512,899	37,696,854	4,701,807	1,853,767	3,786,054	12,807,633	146,872
158,585 ^F	4,388,177 ^F	2,945,892 ^F	359,479 ^F	228,659	336,738	1,183,715	15,580 ^F
12,709 ^F	11,179	645,061 ^F	68,915	369	829	2,016	-
15,913 ^F	604,147 ^F	265,819	386	57,305	649	2,233	-
155,381 ^F	3,795,209 ^F	3,325,134 ^F	428,008 ^F	171,723	336,918	1,183,498	15,580 ^F
-	451,460	48,578	16,235	-	-	26,459	3,250
155,381 ^F	3,343,749 ^F	3,276,556 ^F	411,773 ^F	171,723	336,918	1,157,039	12,330 ^F
1,728,805 ^F	50,272,882 ^F	35,691,708 ^F	3,810,179 ^F	2,278,850	3,426,735	13,312,861 ^F	166,013 ^F
111,002 ^F	103,419	6,182,128 ^F	739,111	6,390	30,005	71,669	-
164,773 ^F	6,474,373 ^F	4,890,266	3,820	619,576	5,644	47,923	-
1,675,034 ^F	43,901,928 ^F	36,983,570 ^F	4,545,470 ^F	1,665,664	3,451,096	13,336,607	166,013 ^F
1,364	5,993,363	585,552	343,760	-	-	233,198	27,875
1,673,670 ^F	37,908,565 ^F	36,398,018 ^F	4,201,710 ^F	1,665,664	3,451,096	13,103,409	138,138 ^F



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Electric Energy Made Available

January - December, 1961

Month	Total net generation	Imports from United States	Exports to United States	Total made available in Canada	Total made available less amount used in boilers	Daily Average	
						Total net generation	Total made available
thousand kwh.							
January	9,988,931	96,936	278,199	9,807,668	9,243,021	322,224	316,376
February	9,017,656	100,277	226,772	8,891,161	8,430,206	322,059	317,541
March	9,867,323	83,619	282,890	9,668,052	9,070,766	318,301	311,873
April	9,419,094	91,759	423,436	9,087,417	8,522,336	313,970	302,914
May	9,689,420	67,599	460,107	9,296,912	8,673,252	312,562	299,900
June	8,906,078	55,638	375,686	8,586,030	8,228,111	296,869	286,201
July	8,642,714	69,420	399,032	8,313,102	7,887,631	278,797	268,165
August	8,832,538	64,154	281,444	8,615,248	8,214,172	284,921	277,911
September	8,993,200	168,562	389,670	8,772,092	8,341,365	299,773	292,403
October	9,736,926 ^F	137,478	331,618	9,542,786 ^F	9,057,521 ^F	314,095	307,832
November	9,846,227	223,200	356,608	9,712,819	9,233,440	328,208	323,761
December	10,278,686	235,318	374,568	10,139,436	9,606,631	331,570	327,079
Year	113,214,455	1,393,960	4,180,030	110,428,385	104,504,114	310,177	302,544

Net Generation, 1949-61

CANADA

Year and month	Utilities			Industry			Grand total
	Hydro	Thermal	Total	Hydro	Thermal	Total	
thousand kwh.							
1949	35,783,737	1,390,562	37,174,299	..	..	12,889,749	50,064,048
1950	39,342,277	1,647,557	40,989,834	..	..	13,428,593	54,418,427
1951	45,819,227	1,732,652	47,551,879	..	..	13,369,527	60,921,406
1952	49,156,895	2,222,115	51,379,010	..	..	14,086,950	65,465,960
1953	49,160,361	3,797,345	52,957,706	..	..	16,400,824	69,358,530
1954	51,713,904	3,178,434	54,892,338	..	..	17,547,555	72,439,893
1955	57,996,293	3,197,153	61,193,446	..	..	18,381,161	79,574,607
1956	64,013,966	4,292,898	68,306,864	..	..	19,119,968	87,426,832
1957	65,817,043	5,572,995	71,390,038	17,155,908	1,714,697	18,870,605	90,260,643
1958	70,840,574 ^F	4,690,850 ^F	75,531,424 ^F	19,409,459	1,816,609	21,226,068	96,757,492 ^F
1959	77,251,848	5,286,363	82,538,211	19,265,330	2,052,553	21,317,883	103,856,094
1960	83,024,886	5,957,979 ^F	88,982,865 ^F	22,743,499	2,313,010 ^F	25,056,509 ^F	114,039,374 ^F
1960 January	7,321,813	506,537	7,828,350	1,869,453	191,342	2,060,795	9,889,145
February	6,933,208	467,430	7,400,638	1,856,992	186,235	2,043,227	9,443,865
March	7,291,110	530,011 ^F	7,821,121 ^F	2,028,749	221,539	2,250,288	10,071,409 ^F
April	6,881,069	414,701	7,295,770	1,929,442	185,718	2,115,160	9,410,930
May	6,987,146	404,634	7,391,780	1,778,285	198,438	1,976,723	9,368,503
June	6,778,899	385,971	7,164,870	1,778,372	191,699	1,970,071	9,134,941
July	6,641,461	405,961	7,047,422	1,835,921	173,328	2,009,249	9,056,671
August	6,717,367	494,189	7,211,556	1,926,008	188,688	2,114,696	9,326,252
September	6,625,090	539,748	7,164,838	1,895,961	194,847	2,090,808	9,255,646
October	6,821,417	602,043	7,423,460	1,962,466	191,878	2,154,344	9,577,804
November	6,893,835	581,128	7,474,963	1,918,275	197,289	2,115,564	9,590,527
December	7,132,471	625,626	7,758,097	1,963,575	192,009 ^F	2,155,584 ^F	9,913,681 ^F
1961 January	7,127,301	683,105	7,810,406	1,968,635	209,890	2,178,525	9,988,931
February	6,345,114	656,601	7,001,715	1,811,204	204,737	2,015,914	9,017,656
March	6,983,874	614,876	7,598,750	2,046,435	222,138	2,268,573	9,867,323
April	6,824,671	493,689	7,318,360	1,907,477	193,257	2,100,734	9,419,094
May	7,108,261	495,902	7,604,163	1,880,146	205,111	2,085,257	9,689,420
June	6,600,943	420,047	7,020,990	1,674,698	210,390	1,885,088	8,906,078
July	6,475,900	465,447	6,941,347	1,502,076	199,291	1,701,367	8,642,714
August	6,526,017	551,419	7,077,436	1,539,842	215,260	1,755,102	8,832,538
September	6,590,943	612,425	7,203,368	1,577,823	212,009	1,789,832	8,993,200
October	7,002,607 ^F	642,248	7,644,855 ^F	1,879,501	212,570	2,092,071	9,736,926 ^F
November	7,054,967	681,577	7,736,544	1,894,278	215,405	2,109,683	9,846,227
December	7,370,796	731,672	8,102,468	1,978,392	197,826	2,176,218	10,278,686

.. Figures not available.