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FOR REVIEW

Fuel Used to Generate Electricity, 1968

Preliminary data indicate that thermal generation of electric energy by public and private utilities amounted to 36,568,618 thousand kwh. in 1968 compared with 28,526,549 thousand kwh. in 1967, an increase of 28.2%. Coal was used to generate 61% of the energy with natural gas and petroleum fuels accounting for 20% and 19% respectively.

The quantity of coal used to generate electricity increased by 22% to 11,098,800 tons in 1968 from 9,113,373 tons in 1967 accounting for approximately 39% of the total coal consumption in Canada. During the same period, the amount of petroleum fuels used for electric energy generation increased by 46% while the amount of natural gas used increased by 14%.

Utilities spent $116,131,236 on fuel compared with $96,958,417 in 1967. Coal accounted for 59% of the cost followed by petroleum fuels and natural gas with 28% and 13% respectively.

DOMINION BUREAU OF STATISTICS
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ENERGY & MINERALS SECTION
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FILE

6503-521

Fuel Used to Generate Electricity, 1968

No.			Canada	New-foundland	Prince Edward Island	Nova Scotia
	Electric utilities – Publicly and privately-operated:					
	Quantity of fuel:					
	Coal:					
1	Bituminous – Canadian	short ton	1,720,854	–	–	712,358
2	Imported	"	5,349,913	–	–	–
3	Sub-bituminous	"	2,537,212	–	–	–
4	Saskatchewan lignite	"	1,490,821	–	–	–
5	Other		–	–	–	–
6	**Total coal**	**short ton**	**11,098,800**	**–**	**–**	**712,358**
	Petroleum fuels:					
7	Furnace fuel oil – Light	Imp. gallon	13,314,574	–	–	73,312
8	Heavy	"	388,296,857	4,581,311	16,509,171	53,078,868
9	Diesel fuel oil	"	32,511,640	4,898,792	81,421	1,028,411
10	Other	"	189,282	–	–	–
11	**Total petroleum fuels**	"	**434,312,353**	**9,480,103**	**16,590,592**	**54,180,591**
	Gas:					
12	Natural	M. cu. ft.	79,736,686	–	–	–
13	Manufactured		–	–	–	–
14	**Total gas**	**M. cu. ft.**	**79,736,686**	**–**	**–**	**–**
15	Other fuels – Propane	"	34,929	–	–	–
	Cost of fuel:					
	Coal:					
16	Bituminous – Canadian	$	15,047,991	–	–	6,250,117
17	Imported	$	47,199,579	–	–	–
18	Sub-bituminous	$	3,375,241	–	–	–
19	Saskatchewan lignite	$	2,849,559	–	–	–
20	Other		–	–	–	–
21	**Total coal**	**$**	**68,472,370**	**–**	**–**	**6,250,117**
	Petroleum fuels:					
22	Furnace fuel oil – Light	$	1,652,198	–	–	9,645
23	Heavy	$	24,593,877	308,309	1,091,303	3,260,568
24	Diesel fuel oil	$	5,770,528	930,203	11,358	153,787
25	Other	$	21,201	–	–	–
26	**Total petroleum fuels**	**$**	**32,037,804**	**1,238,512**	**1,102,661**	**3,424,000**
	Gas:					
27	Natural	$	15,588,201	–	–	–
28	Manufactured		–	–	–	–
29	**Total gas**	**$**	**15,588,201**	**–**	**–**	**–**
30	Other fuels – Propane	$	32,861	–	–	–
31	**Total all fuels**	**$**	**116,131,236**	**1,238,512**	**1,102,661**	**9,674,117**
32	Per cent of total for Canada		100.0	1.07	0.95	8.33

See footnotes at end of table.

Fuel Used to Generate Electricity, 1968

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Northwest Territories	No.
263,964	–	738,351	80	–	6,101	–	–	–	1
–	–	5,349,913	–	–	–	–	–	–	2
–	–	–	–	197,861	2,339,351	–	–	–	3
–	–	–	196,966	1,293,855	–	–	–	–	4
–	–	–	–	–	–	–	–	–	5
263,964[1]	–	**6,088,264[1]**	**197,046[1]**	**1,491,716**	**2,345,452**	–	–	–	6
622,313[1]	1,160,729	11,034,765[1]	359,460[1]	–	–	63,995	–	–	7
94,286,286	172,000,000	–	–	6,894,971	6,650,616	32,599,779	–	1,695,855	8
652,804	4,611,500	3,733,417[2]	3,816,999	1,987,658	1,823,030	7,739,854	924,816	1,212,938	9
–	–	–	32,888[3]	–	–	156,394[4]	–	–	10
95,561,403	**177,772,229**	**14,768,182**	**4,209,347**	**8,882,629**	**8,473,646**	**40,560,022**	**924,816**	**2,908,793**	11
–	–	244,438[2]	1,103,285	21,910,885	34,221,570	22,256,508	–	–	12
–	–	–	–	–	–	–	–	–	13
–	–	**244,438**	**1,103,285**	**21,910,885**	**34,221,570**	**22,256,508**	–	–	14
–	–	–	–	–	–	34,929	–	–	15
2,232,268	–	6,543,032	1,230	–	21,344	–	–	–	16
–	–	47,199,579	–	–	–	–	–	–	17
–	–	–	–	649,108	2,726,133	–	–	–	18
–	–	–	853,714	1,995,845	–	–	–	–	19
–	–	–	–	–	–	–	–	–	20
2,232,268[1]	–	**53,742,611[1]**	**854,944[1]**	**2,644,953**	**2,747,477**	–	–	–	21
84,727[1]	122,702	1,373,378[1]	50,297[1]	–	–	11,449	–	–	22
5,556,879	11,290,000	–	–	336,198	264,648	2,201,727	–	284,245	23
97,876	682,770	720,325[2]	708,083	147,775	306,013	1,322,685	257,414	432,239	24
–	–	–	6,578[3]	–	–	14,623[4]	–	–	25
5,739,482	**12,095,472**	**2,093,703**	**764,958**	**483,973**	**570,661**	**3,550,484**	**257,414**	**716,484**	26
–	–	87,280[2]	279,252	4,236,509	6,078,023	4,907,137	–	–	27
–	–	–	–	–	–	–	–	–	28
–	–	**87,280**	**279,252**	**4,236,509**	**6,078,023**	**4,907,137**	–	–	29
–	–	–	–	–	–	32,861	–	–	30
7,971,750	**12,095,472**	**55,923,594**	**1,899,154**	**7,365,435**	**9,396,161**	**8,490,482**	**257,414**	**716,484**	31
6.86	10.41	48.16	1.64	6.34	8.09	7.31	0.22	0.62	32

Fuel Used to Generate Electricity, 1968 – Concluded

No.			Canada	New-foundland	Prince Edward Island	Nova Scotia
	Electric utilities – Publicly and privately-operated – Concluded:					
	Average B.t.u. content of fuel:					
	Coal:					
1	Bituminous – Canadian	per pound	12,745	–	–	12,713
2	Imported	"	13,273	–	–	–
3	Sub-bituminous	"	8,018	–	–	–
4	Saskatchewan lignite	"	6,672	–	–	–
5	Other		–	–	–	–
	Petroleum fuels:					
6	Furnace fuel oil – Light	per Imp. gal.	159,289	–	–	165,007
7	Heavy	"	181,048	180,320	182,488	180,436
8	Diesel fuel oil	"	165,214	165,538	172,200	163,800
9	Other	"	...	–	–	–
	Gas:					
10	Natural	per stand. cu. ft.[5]	1,014	–	–	–
11	Manufactured		–	–	–	–
12	Other fuels – Propane	per stand. cu. ft.[5]	2,500	–	–	–
	Energy generated:[6]					
	By coal:					
13	Bituminous – Canadian	'000 kwh.	3,593,267	–	–	1,238,263
14	Imported	"	13,829,736	–	–	–
15	Sub-bituminous	"	3,642,239	–	–	–
16	Saskatchewan lignite	"	1,376,972	–	–	–
17	Other		–	–	–	–
18	**Total coal**	**'000 kwh.**	**22,442,214**	–	–	**1,238,263**
	By petroleum fuels:					
19	Furnace fuel oil – Light	"	108,504	–	–	881
20	Heavy	"	6,427,864	60,988	198,754	750,063
21	Diesel fuel oil	"	412,842	62,118	284	15,122
22	Other	"	– 908	–	–	–
23	**Total petroleum fuels**	"	**6,948,302**	**123,106**	**199,038**	**766,066**
	By Gas:					
24	Natural	"	6,315,378	–	–	–
25	Manufactured		–	–	–	–
26	**Total gas**	**'000 kwh.**	**6,315,378**	–	–	–
27	By other fuels	"	862,724	–	–	–
28	**Total all fuels**	"	**36,568,618[9]**	**123,106**	**199,038**	**2,004,329**
29	Per cent of total for Canada		100.0	0.34	0.54	5.48

[1] Fuel oil used in coal-fired stations for initial steam-raising: no resulting generation (622,313 Imp. gals. in New Brunswick, 1,844,090 Imp. gals. in Ontario and 167,266 Imp. gals. in Manitoba).
[2] Fuel oil used in gas-fired station as pilot – 100,000 Imp. gals.
[3] Jet fuel.
[4] Crude oil.
[5] Standard Cubic Foot – 760 mm. Mercury 60° F.

Fuel Used to Generate Electricity, 1968 – Concluded

New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Northwest Territories	No.
11,900	–	13,100	13,500	–	10,000	–	–	–	1
–	–	13,273	–	–	–	–	–	–	2
–	–	–	–	8,600	7,969	–	–	–	3
–	–	–	7,143	6,600	–	–	–	–	4
–	–	–	–	–	–	–	–	–	5
167,000	169,453	157,453	166,792	–	–	169,000	–	–	6
185,417	179,085	–	–	180,000	172,334	181,819	–	168,381	7
164,903	163,603	164,118	165,145	177,770	163,128	164,129	163,959	165,009	8
–	–	–	150,000[3]	–	–	159,440[4]	–	–	9
–	–	1,002	1,030	953	1,031	1,047	–	–	10
–	–	–	–	–	–	–	–	–	11
–	–	–	–	–	–	2,500	–	–	12
493,827	–	1,856,511	- 10	–	4,676	–	–	–	13
–	–	13,829,736	–	–	–	–	–	–	14
–	–	–	–	238,445	3,403,794	–	–	–	15
–	–	–	191,529	1,185,443	–	–	–	–	16
–	–	–	–	–	–	–	–	–	17
493,827[1]	–	**15,686,247[1]**	**191,519[1]**	**1,423,888**	**3,408,470**	–	–	–	18
[1]	18,937	87,639[1]	856[1]	–	–	191	–	–	19
1,579,139	3,092,164	–	–	90,898	73,179	558,676	–	24,003	20
9,179	59,685	52,225[2]	32,437	23,588	25,044	105,186	11,351	16,623	21
–	–	–	160[5]	–	–	- 1,068[4]	–	–	22
1,588,318	**3,170,786**	**139,864**	**33,453**	**114,486**	**98,223**	**662,985**	**11,351**	**40,626**	23
–	–	27,370[2]	78,241	1,451,654	2,549,251	2,208,862	–	–	24
–	–	–	–	–	–	–	–	–	25
–	–	**27,370**	**78,241**	**1,451,654**	**2,549,251**	**2,208,862**	–	–	26
–	–	858,361[7]	–	–	–	4,363[8]	–	–	27
2,082,145	**3,170,786**	**16,711,842**	**303,213[9]**	**2,990,028**	**6,055,944**	**2,876,210**	**11,351**	**40,626**	28
5.69	8.67	45.70	0.83	8.18	16.56	7.87	0.03	0.11	29

[6] Net generation after deducting station service.
[7] Nuclear.
[8] Propane.
[9] Excluding 1,939,000 Kwh. for which fuel data are not available.

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