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THE ILLUMINATING AND FUEL GAS INDUSTRY IN CANADA

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Products and by-products from artificial gas plants in Canada during 1926 were valued at \$18,264,860, an increase of 2 per cent over the corresponding figure for 1925 according to data compiled and published by the Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics at Ottawa. The output of artificial gas in this industry totalled 14,067,676 M. cubic feet of which 12,573,892 M. cubic feet were sold for \$14,417,652 and the remainder was used as fuel in the reporting plants or was unaccounted for. In addition, 17,891,146 M. cubic feet of gas were produced in the coke industry by establishments engaged primarily in the production of metallurgical coke and 1,532,430 M. cubic feet of still gas were produced in the process of refining petroleum.

Statistics given below refer only to the illuminating and fuel gas industry which embraces those plants producing coal gas, water gas, pintsch oil gas and acetylene gas as the major products. The 44 plants in this industry in 1926 were distributed as follows:- 1 in Nova Scotia, 2 in New Brunswick, 4 in Quebec, 21 in Ontario, 8 in Manitoba, 2 in Saskatchewan, 1 in Alberta and 5 in British Columbia. Capital employed amounted to \$54,273,267, the monthly average number of employees was 3,678, salaries and wages totalled \$4,883,521, and the cost of materials used was \$6,226,100. Sales of gas totalled 12,573,892 M. cubic feet worth \$14,417,652 and the value of by-products was \$3,847,208 as compared with sales of gas at \$14,047,306 and by-products valued at \$3,827,173 in 1925.

Of the producing plants, 11 made straight coal gas only; 9 produced carburetted water gas only; 6 made both coal and water gas; 3 manufactured mixed coal and water gas; 9 others made pintsch oil gas and 6 others made acetylene gas from calcium carbide. There were also 2 companies in Ontario distributing coke-oven gas for domestic and industrial purposes.

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Table 1.- Summary Statistics of the Illuminating and Fuel Gas Industry in Canada, 1922-1926.

Year	No. of Plants	Capital Employed \$	No. of Employees	Salaries and Wages \$	Cost of (x) Materials \$	Selling Value of Products \$	Value added by Manufacturing \$
1922	48	39,615,765	3,107	3,974,705	8,580,208	19,089,170	10,508,962
1923	45	45,526,495	3,021	3,801,832	9,024,084	19,605,340	10,581,256
1924	44	42,818,276	3,648	4,835,351	6,772,576	18,101,724	11,329,148
1925	44	46,129,651	3,804	5,057,702	6,178,609	18,859,130	12,680,521
1926	44	54,273,267	3,678	4,883,521	6,226,100	18,264,860	12,038,760

((x) Includes materials used as fuel in 1922 and 1923)

Table 2.- Principal Statistics of the Illuminating and Fuel Gas Industry in Canada, by Provinces, 1925 and 1926.

Province	1925				1926			
	No. of Plants	No. of Employees	Salaries and Wages \$	Selling Value of Products \$	No. of Plants	No. of Employees	Salaries and Wages \$	Selling Value of Products \$
Quebec.....	4	1,124	1,425,271	7,426,522	4	1,018	1,271,078	6,345,445
Ontario.....	21	2,076	2,832,627	8,747,867	21	2,018	2,770,977	9,057,735
Manitoba.....	8	179	255,245	1,113,929	8	171	244,833	1,199,555
British Columbia	5	303	403,282	1,179,429	5	355	459,607	1,267,630
CANADA (x)....	44	3,804	5,057,702	18,859,130	44	3,678	4,883,521	18,264,860

(x) Includes also data for 1 plant in Nova Scotia, 2 in New Brunswick, 2 in Saskatchewan and 1 in Alberta.

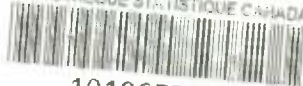
Table 3.- Materials Used in the Illuminating and Fuel Gas Industry in Canada, 1925 and 1926.

Item	Unit of Measure	1925		1926	
		Quantity	Value \$	Quantity	Value \$
Bituminous coal for gas-making:-					
(a) Canadian.....	Short ton)	723,394	4,395,445	80,923	416,645
(b) Foreign.....	" "			620,360	3,857,538
Anthracite coal for gas-making.....	" "	15,323	183,050	3,477	41,277
Coke for gas-making:					
(a) Purchased.....	" "	10,623	106,252	6,663	70,101
(b) Companies own make	" "	69,977	438,401	91,537	592,885
Oil (gas oil) for gas-making.....	Imp. Gal.	10,498,336	970,110	12,155,649	1,133,157
Benzine, gasoline, naphtha, etc.....	" "			75,587	9,443
Calcium carbide.....	Pound	336,000	14,977	311,770	14,344
Lime.....	"	779,780	3,484	820,000	3,595
Water.....	"		12,341		10,334
Oxide or purifying materials	short ton	5,942	54,056	4,995	48,692
All other materials.....		...	493	...	28,089
TOTAL COST.....		...	6,178,609	...	6,226,100

Table 4.- Products of the Illuminating and Fuel Gas Industry in Canada, 1925 and 1926.

Item	Unit of Measure	1925		1926	
		Quantity	Value \$	Quantity	Value \$
Gas Production:					
Straight coal gas.....	M.cu.ft.	8,315,179	...	8,352,129	...
Carburetted water gas.....	"	5,023,569	...	5,408,725	...
Mixed coal and water gas...	"	98,531	...	236,753	...
Oil gas.....	"	68,745	...	68,675	...
Gasoline gas.....	"	1,029	...	1,398	...
Acetylene gas.....	"	434
TOTAL GAS MADE.....		13,507,487	...	14,067,676	...
Gas Sold - Quantity.....	M.cu.ft.	12,064,863	...	12,573,892	...
Income from gas sold.....	\$...	14,047,306	...	14,417,652
By-Products:					
Coke.....	short tons	467,213	3,040,738	471,096	3,073,150
Tar and tar products.....	Imp.Gals.	7,786,838	580,396	7,004,607	635,782
Ammonia liquor.....	lb. NH ₃	1,542,827	102,514	3,430,683	63,973
Other by-products.....		...	103,525	...	74,303
TOTAL BY-PRODUCTS.....		...	3,827,173	...	3,847,208
TOTAL VALUE OF GAS SOLD AND BY-PRODUCTS MADE		...	17,874,479	...	18,264,860

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