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THE NON-FERROUS SMELTING AND REFINING INDUSTRY IN CANADA, 1928.

Smelting and refining of Canadian ores such as cobalt-silver, nickel-copper, copper-gold-silver, silver-lead-zinc and lead ores, and of imported bauxite from which aluminium is made, constitutes an important industry in Canada. A report on this subject, just issued by the Dominion Bureau of Statistics at Ottawa, gives considerable data on this subject.

During 1928 the Aluminium Company of Canada imported bauxite ores, and alumina for the manufacture of aluminium ingot at Arvida and Shawinigan Falls, P.Q. The Horne Copper Corporation, Noranda, P.Q. which began operations on December 16, 1927, ran continuously throughout the year, producing blister copper from the ores of the Horne mine. Some customs ore was also treated.

In Ontario the International Nickel Company produced nickel-copper matte at their Coppercliff smelter. Most of the matte there produced was shipped to the Port Colborne refinery where converter copper carrying gold and silver, refined and electrolytic nickel, nickel oxides, and the metals of the platinum group were produced. Some matte was exported to Huntington, West Virginia, to be manufactured into monel metal. The Mond Nickel Company operated a smelter at Coniston, Ontario. Here, a copper-nickel matte was made, which was shipped to Clydach, Wales, for refining. The Deloro Smelting and Refining Co. Ltd., treated cobalt-silver ores from the Cobalt, South Lorrain and Gowganda districts and produced fine silver, cobalt metal, cobalt oxides and salts, nickel metal, nickel oxides and salts, white arsenic, various insecticides and stellite, an alloy containing cobalt, chromium and tungsten. The Kingdon Mining, Smelting and Manufacturing Co. Ltd., near Galetta, produced pig lead directly from the concentrates of the ore taken from the Kingdon mine.

In British Columbia the Consolidated Mining and Smelting Co. Ltd., Trail, produced gold, silver, lead, zinc, refined copper and cadmium, from customs ores and from ores mined from their own properties, the chief of which is the great Sullivan silver-lead-zinc mine at Kimberley, B.C. This company also operated a concentrator to which mining companies that had no mill sent their ore. The Granby Consolidated Mining, Smelting and Power Co. Ltd., produced blister copper from the ores of the Hidden Creek mine. Customs ores were also purchased. Blister copper made at this plant was exported to the United States for refining.

Capital invested in lands, buildings, plant, machinery and tools, cost of supplies and stocks on hand and cash, in the non-ferrous metallurgical industry in Canada amounted to \$120,035,742 in 1928 as against \$85,366,662 in 1927. There were 685 salaried employees and 6,841 wage-earners who received \$12,228,738 for their services. Fuel and electricity cost \$5,180,770, in addition to which coke to the value of \$1,824,061 was used for smelting. Total power employed was 221,884 h.p. comprising 12,790 h.p. generated by steam engines and steam turbines, 115 h.p. from gasoline, oil and gas engines, 64,535 supplied by hydraulic turbines and water wheels and 144,444 h.p. by electric motors which were operated by purchased power. In addition there were 529 other electric motors in use having a combined rating of 23,106 h.p. which were operated by power generated by the primary power of the industry. The estimated value of the ore charged to the furnaces was \$33,260,225 and the sales value from the smelters amounted to \$94,341,702, indicating that the value added by converting the ore to saleable products was \$61,081,477.

PRINCIPAL STATISTICS OF THE NON-FERROUS METALLURGICAL INDUSTRIES IN CANADA, 1927 and 1928.

	1927	1928
Number of companies.....	8	8
Number of plants.....	10	10
Capital employed..... \$	85,366,662	\$ 120,035,742
Number of salaried employees.....	644	685
Salaries..... \$	1,551,036	\$ 1,635,580
Number of wage-earners.....	7,027	6,841
Wages..... \$	10,569,204	\$ 10,593,158
Cost of fuel and electricity..... \$	6,380,127	\$ 5,180,770
Estimated cost of ores treated..... \$	32,516,687	\$ 33,260,225
Value of smelter products..... \$	77,996,265	\$ 94,341,702
Value added by smelting..... \$	45,479,578	\$ 61,081,477

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