

# The Canadian Engineer

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## The Canadian Engineer

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### INDUSTRIAL EXPANSION.

With the closing of the year 1907, as we scan our broad Dominion with its vast developed, and even greater undeveloped resources, we see the mark of industry on every hand. As we turn back over the pages of another industrial year we find still greater and more extensive achievements recorded in our vast fields of engineering. It is hard to say in what line Canada has excelled. The Dominion to-day presents a most remarkable story of growth, expansion, and development. It has been a memorable year, for recorded during the past twelve months are some of the greatest engineering works Canada has yet undertaken. Perhaps the most striking example of Canadian development is seen in the network of railway lines which now traverse the country throughout its length and breadth. We have seen extensive improvements made to all railway lines, and many remarkable achievements in railway bridge building. The Grand Trunk Pacific is finding plenty of room, and still there remains vast areas of untraversed land. The mileage of steam railways in Canada has increased from 2,695 miles in 1871 to 23,018 miles at the present time. It has been interesting to watch the rapid growth of the Grand Trunk Pacific, which was incorporated in 1903 to build its railway from Winnipeg to the Pacific Ocean. We have watched the progress of the Canadian Pacific Railway, whose charter dates from 1881, the Canadian Northern and other railways, including the enormous expansion in electric railway development, all of which have added their quota to Canada's expansion for 1907. Associated with this expansion is an increased demand for construction supplies, which has been almost illimitable. Letters from all parts of the Dominion have been received by the Canadian Engineer telling the story of this remarkable increase.

The past year has been a remarkable one in the development of waterpowers, and there yet remains almost incalculable power to be developed. All the Provinces of Canada have experienced the same call for power, a demand which will increase as the years go by. The question of Niagara power, of forty years' duration, has become a reality, and power has been transmitted from this great source to our towns and cities. We have seen it developed, transmitted and utilized in our very midst. We have watched with interest the development of electrical power in the West, and the live interest taken by this section of Canada in their illimitable natural resources.

The Canadian mining industry has experienced a real boom, and an unusual amount of machinery has been required to unearth the rich mineral deposits of our lands. The famous Cobalt district has been a wonderful centre for mining activity, notwithstanding the great amount of speculative imaginary ore.

The shipping industry of Canada, including our inland and coasting trade, and numerous trans-Atlantic, Oriental, and foreign markets, has made a noted advance during the past year, and many vessels have been added for the increased traffic. We have seen Thomas A. Edison's prediction realized, since electric power has been developed at the mouth of a coal mine, at the plant of the Maritime Coal, Railway and Power Company, Nova Scotia, situated on the bank of Chignecto Mine. During the past year the hundredth anni-