

SAYS CANADA'S WATER POWERS CAN SUPPORT AN ADDITIONAL POPULATION OF MANY MILLIONS

Writing in the August 15th issue of MacLean's Magazine, M. Grattan O'Leary makes the striking statement that the undeveloped hydro horse power of Canada approximates 16,000 units of 1,000 horsepower each. He argues that on the basis of one active workman supporting an average of five souls, each 1,000 new horsepower developed and supporting 385 new workmen would represent a new population of 1,925 souls, which leads him to this arresting conclusion:

"Therefore, with all of our available power developed and utilized, there would be employment for a new population of 6,160,000 wage-earners, supporting an additional population of 30,800,000 souls, and drawing in actual cash wages, the stupendous sum of \$9,279,600,000 a year.

"Let us try to imagine what this, or even a part of this would mean to Canada's position in world trade! Let us try to visualize its relation to our problems of immigration and emigration! Or its effect upon our railway

problem; upon our home markets and purchasing power; upon the growth of our towns and cities; upon the development of our harbors and ports!

"There are those who say that the time will never come when Canada will need this horsepower. They forget their history. They lack the imagination to cast their minds back two generations in our story. Let us pause here for a moment to consider it. Two generations ago: the West a vast wilderness of prairie and snow, roamed over but by the buffalo, the Indian and the lone pioneer; today: the home of nearly two million people, dotted with towns and cities, crossed by two great transcontinentals, the last great granary of the world. Two generations ago: British Columbia, severed from the rest of Canada by the Rockies; puny in population and development, with one or two struggling towns; today: a mighty province, developing its heritage of forest and mine and sea, whose cities, looking out upon the Orient, send their rich cargoes

across the Pacific, or through the Panama Canal to all the world. Two generations ago: Northern Ontario a primal wilderness, known only to a few trappers, a land of rock and marsh and waste; today: one of the world's great mining areas, yielding fabulous riches in copper and silver and gold. Two generations ago: Canada a land of primitive industry whose total trade was less than half a billion; today: a nation of giant industries whose trade exceeds two billions, and whose per capita exports are the second largest in the world.

But a Pulse Beat.

"In an outline of world history, two generations are but a pulse-beat: in the story of Canada they seem a long time. But considering the transformation that has come within living memory, the massive march of exploration and invention and science, the modern industrial revolution, the discoveries that have made this half of the northern continent the last great empire of man, what mind can measure this nation's progress in future years in the realm of, and because of, power? Explorers and scientists, penetrating the North, tell of unimaginable riches. The Peace River flows through cliffs of coal, past springs of oil which spreads over the surface of the

river. In northern Quebec, in northern Ontario, on the Hudson Bay, in northern British Columbia, mighty mineral deposits and vast forests await adventurous man. When the day comes—as come it must—when these resources come to be tapped, who shall say what it will all mean to this land's industrial greatness? What then will be the place of the turbine and the dam?

Cheapening Production.

"Today, already, the part that power is playing in Canada in cheapening production, in the expansion of industry, in the reduction of the cost of fuel, and in heightening the social and economic life of the people, is almost beyond computation. Fortunately, as if by Divine plan, our great developed power resources are located in areas far distant from coal. Quebec and Ontario, for example, are barren of coal, but they are rich in hydro power. The power developed by these two provinces supply the equivalent of 20,000,000 tons of coal per annum; so that it requires but a simple calculation to discover that Central Canada, which now imports 15,000,000 tons of coal each year, would have to import 35,000,000 tons were it not for power. What that means in money kept in Canada, and what it means, too, to a

part of the Dominion not infrequently menaced by the spectre of a coal famine, must be plain to the meanest intelligence.

Development and installation of hydro power in Canada proceeds at a tremendous pace. Consider these figures:

| | | |
|------|-------|-----------------|
| 1901 | | 150,000 h. p. |
| 1910 | | 1,000,000 h. p. |
| 1920 | | 2,500,000 h. p. |
| 1925 | | 4,300,000 h. p. |
| 1927 | | 4,833,266 h. p. |

During the first six months of 1928, according to official figures, development continued at an unabated pace. At the present date, indeed, it is estimated that the total installation in the Dominion is more than 5,100,000 horsepower, which is just double the installation in the Dominion is more at the end of the year 1920. Moreover, numerous undertakings are now in the initial stages of construction and others about to be commenced, the result of which will be added at least 2,000,000 horsepower more to the country's developed total by the end of 1930.

A Huge Investment.

By the end of the present year, it is safe to say, more than \$1,000,000,000 will be invested in Canada in power. And this capital, let it be borne in

mind, is mostly Canadian. We hear much in these days of the domination of our economic life by United States finance. That claim, whatever truth there may be in it, does not apply to the ownership of our power. The capital invested in it, by nations, is as follows:

| | | |
|---------------|-------|------------|
| Canadian | | 66.9 P. C. |
| United States | | 15 P. C. |
| British | | 6.3 P. C. |
| Others | | 11.8 P. C. |

"Hydro development, in truth has been Canada's greatest achievement during the past ten years. Mighty transformation are being made throughout the land. In Quebec small-sized and prosperous towns stand today where, only a few years past, there was little but marshy land. A few miles from Ottawa the entire face of the countryside has been changed by a titanic dam across the Gatineau. This turbulent Laurentian torrent is now a placid river; water has been raised twenty feet; whole tracts of territory have been inundated. And out in Alberta, it is proposed to dam off glacial lakes, tunnel through a vast peak of the Rockies to bring water, to the Bow River for power purposes. The whole layout of nature is being challenged and changed."

OH HELEN

There was a young lady named Helen
Who was always a screamin' and yellin'
When asked to tell why
She just winked her left eye
And replied: "Oh now, that would be tellin'!"

FIRE ALARM LOCATION IN THE CITY

- 6 Argyle and York Sts.
- 7 Victoria Public Hospital.
- 8 Children's Home.
- 12 Westmorland and Aberdeen Sts.
- 13 Northumberland and Saunders Sts.
- 14 Brunswick and Smythe Sts.
- 15 Charlotte and Smythe Sts.
- 16 George and Northumberland Sts.
- 17 King and Northumberland Sts.
- 21 York and Queen Sts.
- 23 York and George Sts.
- 24 Queen and Westmorland Sts.
- 25 Brunswick and Westmorland Sts.
- 26 Charlotte and Westmorland Sts.
- 27 King and York Sts.
- 28 Saunders and York Sts.
- 31 Queen and Regent Sts.
- 32 Needham and Regent Sts.
- 34 Queen and Carleton Sts.
- 35 Brunswick and Carleton Sts.
- 36 Charlotte and Carleton Sts.
- 37 George and Regent Sts.
- 38 King and Regent Sts.
- 43 Aberdeen and St. John Sts.
- 44 Queen and St. John Sts.
- 45 Brunswick and St. John Sts.
- 46 Charlotte and St. John Sts.
- 51 King and Church Sts.
- 52 George and Church Sts.
- 53 Union and Church Sts.
- 54 Shore Street and Waterloo Row.
- 55 George Street and University Avenue.
- 56 Lansdowne and Waterloo Row.
- 57 Grey Street and University Ave.
- 112 Aberdeen and Smythe Sts.



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