uses hydro-electric power generated in the Kelsey plant on the Nelson River, and the iron ore mining operations in Labrador, supplied by the Twin Falls plant on the Unknown River. Metal mining, a very important division of the Canadian mining industry, is carried on mainly in two physiographic regions, the Western Cordillera and the Canadian Shield. In the Western Cordillera, the mountainous topography and the relatively high amounts of precipitation favour the development of water power. In the Canadian Shield, which is a Precambrian formation stretching in a wide sweep around Hudson Bay from the Mackenzie River basin to the eastern tip of Labrador, heavy glaciation in recent geological times has formed river systems which are comparatively young and are characterized by large numbers of lakes connected by short river sections with numerous rapids and falls suitable for the development of hydro-electric power.

Canada has no known deposits of bauxite but the availability of low-cost hydroelectric power has fostered the establishment of a large aluminum industry which produces mainly for export to world markets. Further evidence of the value of water power to mining operations is provided by the fact that Canada's asbestos industry, which produces about 40 p.c. of the total world supply of asbestos, obtains the major part of its power supply from hydro-electric sources.

Canada's pulp and paper industry is one of the world's great industrial enterprises. Total mill capacity for the production of newsprint paper is considerably greater than that of any other country in the world, and in total production of wood pulp Canada is second only to the United States. The fact that over 90 p.c. of the manufactured newsprint is exported gives some indication of the importance of the industry to the Canadian economy. By far the larger portion of the energy used in the pulp and paper industry is derived from water power.

Subsection 3.-Water Power Resources, Undeveloped and Developed

Table 2 presents a summary of developed water power in Canada and an estimate of undeveloped water power potential, based on records maintained by the Inland Waters Branch of the Department of Energy, Mines and Resources. Estimates of available power are shown for undeveloped sites only; for developed sites, the total generating capacity actually installed is indicated. It should be noted that the capacity installed at an existing hydro-electric development is frequently in excess of the continuous power available at the site. The relationship between installation and available power is explained on p. 664.

Province or Territory	Undeveloped Water Power Available Continuous Power at 88 p.c. Efficiency			Developed Water Power
				Installed Generating
	at Q951	at Q502	at Qm ³	Capacity
Newfoundland. Prince Edward Island. Nova Scotia. New Brunswick. Quebec. Ontario. Manitoba. Saskutchewan. Alberta. British Columbia.	kw. 1,240,000 21,000 62,000 8,027,000 467,000 2,964,000 773,000 895,000 4,946,000	kw. 3,635,000 1,000 221,000 27,788,000 1,102,000 5,501,000 1,298,000 3,244,000 3,635,000	kw. 4,871,000 2,000 165,000 497,000 36,576,000 1,663,000 5,853,000 1,559,000 4,866,000 24,665,000	kw. 466,000
Yukon Territory. Northwest Territories.	664,000 864,000	3,237,000 2,232,000	5,689,000 3,322,000	28,000 35,000
Canada	20,923,000	65,006,000	89,728,000	22,657,000

2.-Water Power Resources, by Province, as at Jan. 1, 1967

¹ Power equivalent of flow available 95 p.c. of the time. the time. ³ Power equivalent of arithmetical mean flow. ² Power equivalent of flow available 50 p.c. of