

rated capacity of 855,000 hp. in five units. The third and final section of the Commission's Beauharnois development also began initial operation during 1959 when four units, each rated at 73,700 hp., were installed. By 1961 this section, consisting of ten 73,700-hp. units with provision for an eleventh, will be completed and the installed capacity of the over-all development will be 2,234,700 hp. The Commission started construction on a new power development on the Ottawa River at Carillon, some 50 miles from Montreal; the powerhouse will contain 14 units, each rated at 60,000 hp. Work was also started on the construction of an 80-mile road to provide access to the site of the proposed reservoir for the Manicouagan development.

The Aluminum Company of Canada began initial operation at its giant Chute des Passes development on the Peribonca River when three 200,000-hp. units were placed in service. With the completion of two more units in 1960, the development will have a rated capacity of 1,000,000 hp.

The James Maclaren Company Limited completed construction of a 50,000-hp. hydro-electric development in two units on the Lièvre River at Buckingham. A 1,500-hp. plant at that location ceased operation early in 1959.

The Quebec Cartier Mining Company continued construction of a power project on the Hart Jaune River, in the headwaters of the Manicouagan River. The powerhouse, located 27 miles upstream from Big Manicouagan Lake, will be completed late in 1960 with the installation of three 22,000-hp. units. Power will be supplied to the Company's mine site some 10 miles from the powerhouse.

Ontario.—During 1959, new hydro-electric capacity totalling 831,300 hp. was placed in service in Ontario, most of which was installed by The Hydro-Electric Power Commission of Ontario, Canada's largest power producing and distributing agency. The Commission was engaged in the construction of five hydro-electric developments during the year. Major construction was completed at the Robert H. Saunders-St. Lawrence Generating Station where nine 75,000-hp. units were added, raising the capacity of the Canadian portion of the development to 1,200,000 hp. in 16 units. The Commission also completed construction of its 60,000-hp. Silver Falls Generating Station on the Kaministikwia River and progress was made in the development of other sites in northern Ontario. A fifth unit rated at 66,000 hp. was installed at the Abitibi Canyon Generating Station on the Abitibi River raising installed capacity at this station to 330,000 hp. Construction continued at Red Rock Falls on the Mississagi River where the first of two units, each rated at 26,500 hp., should be in operation late in 1960. Installed capacity in northern Ontario will be further increased by the construction of a generating station at Otter Rapids on the Abitibi River where four 60,000-hp. units will be installed and minimum provision made for four additional units; the first two units are scheduled for service in 1961.

The Commission proposes to co-ordinate the development of these hydraulic resources with the construction of thermal-electric generating facilities in areas of concentrated load. The plan is to pool the output of a number of the hydraulic developments at a gathering station in the north and to bring it to load centres in southern parts of the province by extra-high-voltage transmission line, using voltages more than twice as high as those at present employed by the Commission. With this purpose in mind the Commission is conducting tests on an experimental high-voltage line in the vicinity of Coldwater, where conditions involved in the transmission of power at voltages from 400 to 600 kv. are being simulated.

The construction of thermal-electric stations is also being aggressively continued. At the Richard L. Hearn Generating Station at Toronto, the Commission added the first of four additional steam-turbines, each with a capacity of 268,000 hp. The remaining three units will be added in 1960, when the plant will consist of eight units totalling 1,608,000 hp. Further thermal-electric capacity is under construction in southern Ontario, involving installation of four 402,000-hp. units at the Lakeview Generating Station near Toronto. One unit is scheduled for completion in 1961 and the other three by 1964. Plans provide for a total installation of 2,400,000 hp. at this station. At Fort William, construction