

kw. in one unit. Development of the Mactaquac site on the St. John River was proceeding on schedule and the first three 100,000-kw. units should be in operation early in 1968; Mactaquac is designed for six 100,000-kw. units, all of which will be in service by 1976. The Commission increased the capacity of its Courtenay Bay steam plant at East Saint John to 63,365 kw. by the addition of a 13,365-kw. unit and further boosts of 110,000 kw. each are scheduled for 1966 and 1967, respectively. In May 1965, the Maine and New Brunswick Electric Power Company Limited installed a 20,800-kw. unit at the Tinker hydro plant on the Aroostook River, bringing the total installed generating capacity to 30,840 kw.

Quebec.—In 1965, Quebec's extensive program of power-plant construction added 905,000 kw. of new capacity to the province's already considerable total of almost 10,000,000 kw., the new capacity consisting of 755,000 kw. hydro and 150,000 kw. thermal. A total of 451,920 kw. of new capacity, all hydro, is scheduled for 1966. On the basis of present scheduling, more than 5,250,000 kw. of new capacity, most of it hydro, should come into service in Quebec during the years 1967-74.

One of North America's most spectacular engineering projects, the harnessing of the power potential of the Manicouagan and Outardes Rivers, went ahead on schedule during 1965. The project involves the construction of seven new hydro plants on the two rivers and the installation of additional capacity at an existing station. The total amount of new generating capacity to be made available by the Manicouagan-Outardes project will be in excess of 5,500,000 kw. Manic 2, eleven miles from the mouth of the Manicouagan River, went into operation in 1965 with 635,000 kw. of generating capacity in five units; three more units will complete the development of Manic 2, two scheduled for 1966 and the third for 1967. Manic 1, the next plant scheduled to produce power on the Manicouagan, will be in service in 1966 with two units, each rated at 61,660 kw.; a third unit, which will complete the development of Manic 1, will be in service in 1967. The largest development in the Manicouagan-Outardes hydro complex is Manic 5, designed for a total generating capacity of 1,344,000 kw. in eight units. When completed, the buttressed, multi-arch dam at Manic 5 will be over 4,000 feet long and 703 feet high at the highest point above bedrock and will be one of the highest and most massive dams of its kind in the world. First power is expected in 1970 and completion of the plant in 1972. Last of the new Manicouagan plants to come into service in the current program will be Manic 3, with a total generating capacity of 1,120,000 kw. in seven units; initial service is scheduled for 1972 and complete service for 1974.

On the Outardes River, power at Outardes 4 will be generated by four 158,000-kw. units, the first three of which will be in service in 1968 and the fourth in 1969. The dam at Outardes 4 will create a reservoir with a surface area of more than 250 sq. miles. The underground powerhouse planned for Outardes 3 will house four 189,000-kw. units. Three are scheduled for initial operation in 1968 and the fourth in 1969. The Outardes 2 plant, adjacent to the existing Outardes Falls station, is due to go into service in 1968 with a total capacity of 447,000 kw. in three units.

Elsewhere in the province, Quebec Hydro is developing two sites on the Quinze Rapids reach of the Upper Ottawa River to supply power to the rapidly developing northwestern region: the Rapides-des-Îles plant is designed for four 37,300-kw. units, two scheduled for 1966, the third for 1967, with development of the fourth dependent upon the magnitude of local power demands; the First Falls plant is designed for 112,000-kw. capacity in four units, three to be installed at the rate of one a year from 1968 to 1970 and the fourth at a later unscheduled date.

The capacity of Quebec's first large thermal station, the Tracy plant near Sorel, was increased in 1965 by the addition of a second 150,000-kw. unit to bring the station capacity to 300,000 kw. Two more units are scheduled for 1967. A new steam plant equipped with two 150,000-kw. generators will come into operation in 1970 to supply power to the Gaspé region.