

to a 25,600-kva. generator. Currently being added to this plant are two regenerative cycle gas turbine units, each comprising a 24,000-hp. turbine and 25,600-kva. generator, whose installation will be completed by 1 July 1958 to bring the total installed capacity of the plant to 101,000 hp. At Dawson Creek, a tri-fuel internal combustion engine plant was completed with the present total capacity consisting of three 3,000-kw. units and two 1,000-kw. units. The former capacity of the plant was 3,800 kw. A tri-fuel internal combustion engine plant also was completed at Prince George with the present total capacity consisting of four 3,000-kw. units. The former capacity of this plant was 6,475 kw. At Tofino, the capacity of the diesel plant was increased to 1,675 kw. by the addition of a 600-kw. unit. The tri-fuel internal combustion engine plant at Quesnel is scheduled for completion on 15 April 1958 by the addition of a 3,000-kw. unit which will bring total plant capacity to 12,000 kw. At Terrace, a 1,000-kw. diesel unit to be completed by 1 April 1958 will bring the total capacity of the plant to 4,200 kw.; while at Fort St. James, the addition of a 600-kw. diesel unit by 1 March 1958 will increase the installed capacity of that plant to 1,250 kw.

The construction of major transmission lines by the Commission consisted of 138-kv. lines as follows: 3.8 miles double circuit from the Georgia generating station to the loop tap, 2.8 miles double circuit from the Crofton transformer station to the loop tap and 70.7 miles single circuit from Vernon to Kamloops. In addition, 50 miles of 60-kv. single circuit line were completed between Fort St. John and Dawson Creek and 73.5 miles between Quesnel and Williams Lake. Substations at Prevost, Crofton and Duncan Bay were completed, the Kamloops station was enlarged and the one at Vernon was rebuilt.

The British Columbia Electric Company Limited commenced operation of its Cheakamus development in October when the first of two units, each comprising a 95,000-hp. turbine and 80,000-kva. generator, was brought into service, and the second unit added about a month later. The project consists of a dam on the Cheakamus River near Garibaldi and a tunnel 18 feet in diameter, 6 3/4 miles in length, which diverts water to the powerhouse on the Swamish River. With a maximum height of 91 feet, the dam creates a reservoir having a capacity of 40,000 acre-feet. The development at Clowhom Falls on Sechelt Peninsula, purchased in 1956 from the British Columbia Power Commission, was rebuilt and the 4,000-hp. two-unit installation replaced by a single unit consisting of a 40,000-hp. turbine and 31,500-kva. generator. The concrete gravity dam was raised to a maximum height of 71 feet creating a reservoir with a capacity of 77,000 acre-feet. The plant was to go into operation in December 1957.