

At the Company's Bridge River system, the power plant at the La Joie dam commenced operation in November when a 30,000-hp. turbine and 24,500-kva. generator were placed in service. The single unit, located on the downstream end of one of the two existing outlet tunnels, will utilize the water as it is released from the La Joie reservoir for further use at the downstream Bridge River and Seton Creek plants. Work was continued on the final phase of the Bridge River development involving a large storage dam on the Bridge River, a second tunnel through Mission Mountain and a new powerhouse, Bridge River No. 2, on Seton Lake about one-half mile upstream from the present plant. The storage dam, in the vicinity of the existing diversion dam, will provide an additional 750,000 acre-feet of storage bringing the total capacity of the two reservoirs to 1,335,000 acre-feet. The new dam will raise the head on the existing power plant on Seton Lake and is expected to increase the total capacity of the four units in this plant from 248,000 hp. to 276,000 hp. At the Bridge River No. 2 development, four units, each consisting of an 82,000-hp. turbine and 65,500-kva. generator, are expected to be installed during the latter half of 1959, which will provide a total installed plant capacity of 328,000 hp.

In addition to its hydro-electric installations, the British Columbia Electric Company Limited started construction of a gas turbine plant at Port Mann which will consist of four 32,500-hp. turbines, each driving a 30,000-kva. generator. The units will be capable of operating on either oil or natural gas fuel and are scheduled for operation during the summer and autumn of 1958. At Ioco, on Burrard Inlet, land acquisition, engineering and negotiations for government permits were initiated for a large steam plant which will have an ultimate capacity of six units, each rated at 210,000 hp. It is planned to put the first unit into operation in January 1961, the second unit in October 1961, and additional units subsequently as required.

In the construction of major transmission lines, 202 miles of 345-kv. transmission line were brought into service by the Company to provide a second circuit from Bridge River to Vancouver, as well as linking the Wahleach plant, at the higher voltage, to the Ingledow terminal station near Vancouver. An underwater cable was completed from Grief Point to provide energy for homes and industries on Texada Island. The Company continued work on its Ingledow substation which now contains 450 mva., 345/230 kv. transformer capacity and 33 mva., 230/60 kv. transformer capacity. The new major Mainwaring station in the Vancouver area was completed and the reconstructed Newell station in Burnaby was placed in service. Each contains two transformers of 75-mva. capacity, transforming from 230 kv. to 12 kv. for