

industrial load in central and southern Alberta. This transmission network is also connected with the municipal utilities of the cities of Edmonton and Lethbridge, Canadian Utilities Limited at Drumheller, Vegreville and Vermilion, and the East Kootenay Power Company in the Crownest Pass.

During 1957 an addition to the hydro system is scheduled for completion; this is an extension to the Cascade plant of 23,000 h.p. The Company has about 4,300 miles of main transmission lines and 2,126 miles of distribution lines extending from Plamondon in the north, Milk River and Waterton in the south, and from Chauvin, Macklin (Sask.), Brooks and Bow Island in the east, to Nordegg, Banff and Crowsnest Pass in the west. The cities of Calgary and Red Deer, and the towns of Ponoka, Fort Macleod and Cardston are supplied on a wholesale basis, but all other points on the same system are supplied on a retail basis. At Dec. 31, 1956, electric pumping service was being supplied to over 2,500 oil wells, as well as service directly to other sectors of the oil industry, such as gathering stations, refineries and pipeline pumping. Service was also provided to several industrial plants near Edmonton.

An extensive farm electrification program is in progress in Alberta and at Dec. 31, 1956, the Company was serving 27,096 farms. Calgary Power constructs, operates and provides for the engineering of these co-operatives through a non-profit subsidiary (Farm Electric Services Limited), energy being supplied to the farm co-operative consumers at cost.

*Canadian Utilities Limited.*—Towns and villages to the north, east and west of Drumheller, and to the north and east of Vegreville are supplied by three inter-connected plants at Battle River, Vermilion and Drumheller. The Battle River plant has a 32,000-kw. coal-fired steam unit; the Vermilion plant has an 8,500-kw. gas turbine and 9,000 kw. in gas-fired steam equipment; and the Drumheller plant has 19,000 kw. in coal-fired steam equipment. Towns and villages north, east and west of Grande Prairie are served by two internal combustion plants. One, situated in Fairview, has 1,200 kw. in a natural gas unit—the other in Grande Prairie has 5,700 kw. in diesel and gas-diesel installations. Towns and villages south of Lesser Slave Lake are supplied by diesel installations totalling 390 kw. at Kinuso and Slave Lake. In addition, a 10,000-kw. gas turbine plant near Sturgeon Lake is to be completed in 1957, which will supply both Grande Prairie and Slave Lake areas. The Company's plant in Fort St. John, B.C., was sold in 1956.

There are tie lines with Calgary Power Limited at Vermilion, Vegreville and Drumheller; and with Northland Utilities Limited at Fairview and Valleyview. The Company serves over 36,200 customers in approximately 330 towns, villages and hamlets (including 111 rural electrification associations) through a network of approximately 3,118 miles of transmission and distribution lines, in addition to 7,427 miles of Rural Association lines. Since 1949, rural electrification in the territory served has been extended to farmers on a co-operative basis whereby the farm or rural electrification association system is constructed and operated at cost for the farmer by the Company. Over 8,000 farmers are receiving electric power service. In 1957, the Company purchased control of the McMurray Light and Power Company, Limited, operating a 300-kw. diesel installation serving the town of McMurray.

*Northland Utilities Limited.*—This Company, with headquarters at Edmonton, supplies electric service to 6,500 customers located in 36 communities. Diesel generating plants are located in Jasper, Athabasca, High Prairie, Fort Vermilion, McLennan, Peace River, Fairview, Lac La Biche and in Hay River, N.W.T.

A hydro generating plant supplies additional power at Jasper and through 250 miles of 24,000-volt transmission line serves 27 other communities. In addition, approximately 1,200 miles of farm line owned by rural co-operatives serve 1,000 farm customers. A Northland Utilities subsidiary, Uranium City Power Company Limited, generates and distributes electricity to 450 customers in Uranium City, Sask.

Natural gas is supplied to 3,000 customers in 12 communities in Northern Alberta—Fairview, Bluesky, Whitelaw, Brownvale, Berwyn, Grimshaw, Grande Prairie, Spirit River, Sexsmith, Rycroft, Woking and Clairmont.