

The Company has about 4,500 miles of main transmission lines and 2,700 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, 1957, electric pumping service was being supplied to over 3,200 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, 1957, the Company was serving 29,306 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.*—This Company supplies three areas in the province: the Grande Prairie District, outlined by Hythe, Spirit River, Lesser Slave Lake, Smith, Fox Creek and the city of Grande Prairie; the Vegreville District, outlined by Vermilion, Vegreville, Smoky Lake, Cold Lake and the city of Lloydminster; and the Drumheller District, outlined by Three Hills, Stettler, Forestburg, Consort, Empress, Cessford and the city of Drumheller. Three inter-connected plants at Battle River, Vermilion and Drumheller supply the Vegreville and Drumheller Districts. The Battle River plant has a 32,000-kw. coal-fired steam unit; the Vermilion plant has an 8,500-kw. gas turbine (the first gas-turbine powered generator in Canada) and 9,000 kw. in gas-fired steam equipment; and the Drumheller plant has 19,000 kw. in coal-fired steam equipment. Three inter-connected plants at Grande Prairie, Fairview and Sturgeon Lake supply the Grande Prairie District. The Grande Prairie plant has 5,700 kw. in diesel and gas-diesel equipment; at Fairview there is a 1,200-kw. natural gas unit, and at Sturgeon Lake there is a 10,000-kw. gas turbine which uses sour flare-gas from nearby oilfields as fuel. The town of Smith is served separately by a 110-kw. diesel unit.

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 39,000 customers, covering approximately 33,000 sq. miles, including 214 towns, villages and hamlets, and 129 rural electrification associations, through a network of approximately 3,800 miles of transmission and distribution lines, and 9,400 miles of rural electrification association lines.

Since 1949, rural electrification in the territory served has been extended to farmers on a co-operative basis whereby the rural electrification association systems are constructed and operated at cost for the farmers by the Company. Over 9,700 farmers are receiving electric power service. In addition, the Company operates a subsidiary, McMurray Light and Power Co. Limited, with a 525-kw. installation, serving 330 customers in the town of McMurray. In 1958, the Company acquired the Yukon Hydro Company Limited and the Yukon Electrical Company Limited, operating two installations consisting of 1,650 kw. in hydro units and 1,000 kw. in diesel units serving 1,500 customers in Whitehorse.

*Northland Utilities Limited.*—This Company, with headquarters at Edmonton, supplies electric service to 8,100 customers located in 29 communities. Diesel or gas-fueled generating plants are located in Jasper, Athabasca, High Prairie, Fort Vermilion, McLennan, Peace River, Fairview, Lac la Biche in Alberta and at Hay River in the Northwest Territories. A hydro-electric generating plant augments the supply at Jasper.

Through 125 miles of 69,000-volt transmission line and 250 miles of 24,000-volt transmission line, service is distributed to 27 additional communities. Also, approximately 1,200 farm customers are served by rural co-operative lines. A subsidiary, Uranium City Power Company Limited, generates and distributes electricity to 600 customers in Uranium City, Sask.