

use and the country's advancement is long distance transmission, and I suppose some day power will be transmitted by "wireless" and so end the reign of towers, poles and wires.

Perhaps a short description of the development now going on at Stave River Falls will be interesting.

WATER SUPPLY.

The watershed of the Stave River extends in a northerly direction many miles beyond the head of Stave Lake, and has never been thoroughly explored. The precipitation is very heavy, the records kept for ten years at Nicomen, 11 miles from Stave Falls, showing a minimum of 72 inches per annum.

The mountains forming the watershed are granite; they rise high above the timber line, and are covered with snow and small glaciers.

The upper river is a large glacier-fed stream and several smaller streams empty into the lake, some coming direct from the glaciers on a high mountain on the west side of the lake.

The lake is nine miles long and about one mile or more wide. The east and west shores are precipitous. At the head and foot of the lake there are large areas of low-lying land which are flooded during high water.

From the foot of the lake to the Stave Falls the river is seven miles long. About two miles of this are rapids with a total fall of 14 feet, the rest is navigable at all stages of the river and has very little fall.

At the falls and the rapids in the immediate vicinity of Stave Falls the river drops 80 feet and then continues on its course over a series of rapids for a distance of four miles, finally debouching through narrow granite gorge into a tide water basin where it joins the Fraser River.

POWER AVAILABLE.

With a 55-foot dam at Stave Falls, the crest being at level 230 feet, a maximum of 120 feet can be obtained. This will be reduced to 100 feet at low stage of the lake and the average head will be 110 feet.

With an average head of 110 feet, a flow of 3,000 cubic feet per second will produce 28,000 electrical horse power continuously, and under usual operating conditions a peak load of 44,000 to 48,000 h.p. can be provided for.

At the lower site an equal amount can be developed by