The Queenston-Chippawa development was begun in 1917 as a war measure, when the consumption of power in munition factories was greatest, at a time when the duration of the war could not be foreseen. High wage costs and high prices of material raised construction costs far above the original estimate of \$10,500,000, besides which the ultimate capacity of the plant was enlarged. The cost of completing the nine units, totalling 522,790 h.p., is now estimated at approximately \$76,302,482.

The first of these units began operation on Dec. 28, 1921; three others commenced operations in 1922 and the fifth in 1923. The sixth and seventh units were put into operation in 1924 and the eighth and ninth in 1925. The present normal operating capacity of this plant is 370,000 kilowatts or 522,790 h.p. It is operated independently but is connected with the other two power plants of the Commission at Niagara Falls, (the Niagara Ontario Power plant and the Niagara Toronto Power plant), the combined operating capacity of the three plants being 637,000 kilowatts or 853,890 h.p. In addition the Commission receives the output of two units of the Canadian Niagara Power Co., totalling 20,000 h.p. The total system power factor at the time of the peak load approximates 85 p.c. In 1926 a contract was completed for the purchase of 260,000 horse power from the Gatineau Power Company.

Hydro-Electric Power Statistics.—The Canada Year Book of 1910 (p. xliii) described the turning on, on October 11, 1910, at Berlin (now Kitchener), Ontario, of electrical energy generated by Niagara falls, and the initial work carried out by the Ontario Hydro-Electric Power Commission for the supply of electrically generated power to 15 municipalities. The growth of the Hydro system in Ontario is shown in the amount of power used by its consumers. In 1910, the Commission supplied 750 h.p. to 10 municipalities; in 1915, 100,242 h.p. to 99 municipalities; in Dec. 1926 the amount of power taken was 536,119 h.p. "The government electric utilities in Ontario have grown from a league of seven municipalities formed in 1903 until now the vested interests of the people in this class of property are represented by investments totalling over \$275,000,000, the bonded indebtedness of which is guaranteed by the Province of Ontario."

In Table 9 will be found a consolidated operating report of the Hydro-Electric Power Commission for the years 1912 (the earliest year for which the statistics are available) to 1926. The table shows that during the 15-year period covered, the number of municipalities securing electricity from the Commission has increased from 28 to 249, the number of consumers from 34,967 to 420,590, the earnings from \$1,617,674 to \$22,677,999, and the operating expenses from \$1,377,168 to \$20,343,232.

				-	
Years.	Number of muni- cipalities.	Number of consumers.	Horse- power gsed.	Earnings.	Expenses,
1912   1913   1914   1915   1916   1917   1918   1919   1921   1922   1923   1924	28 45 69 99 133 143 166 181 184 205 214 223 214 223	34,967 65,697 96,744 120,028 148,732 170,916 188,987 216,086 245,666 265,743 368,690 348,023 374,405	h.p. 70, 698 100, 212 120, 763 157, 048 154, 990 185, 335 208, 232 242, 349 294, 061 350, 486 402, 282	\$ 1, 617, 674 2, 617, 440 3, 433, 658 4, 670, 295 4, 983, 601 6, 970, 065 7, 082, 039 7, 927, 065 9, 707, 901 10, 981, 942 12, 756, 104 12, 756, 104 12, 756, 104 12, 756, 733	\$
1926.	249	420.590	536,119	22, 677, 999	20, 343, 23

## 9.—Consolidated Operating Report of Electric Departments of Hydro Municipalities in Ontario, 1912-1926.