

frequently as the demands for power arise, thence by use of gates and penstocks, the water will be carried to wheels placed 150 feet below; the wheels being above ground and of easy access, thence by using one or more of the natural water-courses, the water will flow to such points and be used at such heads, as may be found most desirable, until the full head of 320 feet has been utilized.

Head of 320 Feet: How Obtained and Compared with Niagara Falls.

When viewing the Falls, it is seldom one stops to consider that the cataract proper represents but the lesser proportion, in the descent of the waters of Lake Erie to Lake Ontario; that whilst the aggregate descent is 330 feet, the Falls proper cover only 155 feet of it, the greater portion being included in the various rapids of the rivers. The accompanying blue print diagram shows this, and also how it is proposed to use this great head of 320 feet, being total difference between the Lakes, less 10 feet, the descent on the Niagara to the mouth of the Welland River.