the other hand, the depreciation of a modern steam plant, because of the excellence to which steam orgineering has attained, is comparatively light, probably not exceeding ten per cent., whereas even in the best known types of electric generators and motors they are constantly being improved, and the present rate of depreciation cannot be considered as much less than twenty per cent. Then the question of utilization of steam power for other purposes in most manufacturing plants is an important consideration, the steam boiler being in most instances a necessity, even if electric power were utilized, for such purposes as heating, drying and other industrial uses.

Quite a large number of manufacturers \$4 per h.p. per annum, most of the fuel being waste material, shavings, sawdust and blocks.

Then again in business enterprises, where the possibility of a cessation of power would be a serious loss, they cannot afford to take the chance of an occasional stoppage by a breakdown on a long transmission line, which, under present conditions, is not an altogether remote possibility.

Add to all this the fact that in manufac. With the latest type of gasoline engine, if, as

(d) Gas and Gasoline Power. - Gas engines were used to a considerable extent for small powers in Toronto prior to the introduction of the electric motor. It is estimated by one engineer that the gas engine does not now figure as prominently in the city as it might do, especially since the en-gines of this type for both gas and gasoline outlay of nearly \$10,000 for the purpose of also use refuse as a part of their fuel, which have been so largely improved. Neither the delivering through the works both low and reduces the cost of steam production. As an loss ner gasoline engine can, of course, high pressure air for atomizing fuel oil in reduces the cost of steam production. As an gas ner gasoline engine can, of course, reduces the cost of steam production. As an gas nor gasonine engine can, of course, oil furnaces, and also for air lifts, pneumatic displace any of the present electric motor machines and air tools of various kinds. It steam boilers, produces it at a cost of about tage, with economical results, in the place of success elsewhere, would, in course of time, many of the small steam plants now installed generating from, say, 25 to 75 h.p. The heat units of the gas supplied by the Con. doubt, result in a public service of sumers Gas Co. are said to be 650, and from pressed air being provided in our city. this it is computed that from seventeen to 3. POWER FACILITY AS A FACTOR IN ATtwenty feet of gas would supply a h.p. for one hour, with the latest improved engine. Put-

turing plants of any considerable size the guaranteed, a wine gallon will give a h.p. for percentage of the cost of power is such a ten hours, at the present price of gasoline small percentage of the cost of the output (fourteen cents per wine gallon, or 17½ cents and the annual expense, and we believe the per imperial gallon) the price would be about majority of our leading factories would not readily change to the electric power, even gasoline engine could not, of course, community for the percentage as to the electric current at Hamilton or under quite favorable circumstances as to pete against electric current at Hamilton or price.

(e) Compressed Air .- So far this new power has not come into any considerable use in Toronto. There are, however, several large isolated plants utilizing this wonderful force to a considerable extent. In one of our chief factories an air-compressor success elsewhere, would, in course of time, get into use here also, which would, no doubt, result in a public service of com-

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The name of "cheap electric power," acting it at twenty feet per hour—the present companied, as it generally is, with so many price of gas being ninety cents—would mean false suppositions regarding its cheap, inevit-\$54 per h.p. per annum of 300 ten-hour days. able, and universal application to industrial

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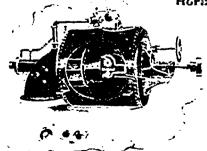
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