cooking is done by coal, charcoal. Smoke and

As figures constitute the most convincing argument, the following table is taken from a paper read before the Canadian Electrical Association last year. It shows the comparative cost of cooking various articles on the electric range and gas range, electricity being taken at 2 cents per kilowatt-hour and gas at \$1.00 per thousand cubic feet.

ARTICLE	Ounnetie	ELECTRIC	C RANGE	GAS B	RANGE
	A seesant y	Minutes	Cost (Cents)	Minutes	Cost (Cents)
Roast Beef	4lbs.	109	2.6	20	2
Steamed Potatoes	2 lbs.	87	0.34	45	0.5
Broiled Steat	14 lb.	145	0.7	65	1.2
Bread.	Oven	52	6.0		
	full	77	2.5	25	4
Apple Fies	2	96	1.5	20	3.0
Boiled Chicken	3 15	98	1.9		

In many localities, particularly in Ontario, the rate for electricity is as low as 1c. per kw. hr. and the cost given under electric range will be just one-half that shown in the table

As a further confirmation of the low cost of electric baking, we may take the figures obtained in a test carried out in a western city where batches of three ordinary domestic loaves of bread were baked, one batch in a modern gas range and the other in an electric range. Taking the same comparative rates, that is, electricity at 2 cents per kw. hr. and gas at \$1 per thousand cubic feet, the cost with gas was 6.0c. as compared with only 2.8 cents with electricity

In general the experience of those who have tried electric cooking has brought out the following

(1) Joints of meat and steak are cooked better and lose less in weight than by other means, the electric method requiring also a shorter period of training to enable the attendant to secure good results.

(2) The certainty that, if the same time is given for the same operation, exactly the same result will be produced.

(3) The convenience and cleanliness and the avoidance of an unhealthful atmosphere in the kit-

(4) Where rates for electricity are reasonably low a saving is effected.—L. G. D.

May be Eliminated by Process of Electrical Precipitation of Suspended Particles

Owing to the conservation move- rodes. ment in the United States and to the agitation of farmers against the cessfully for precipitating smoke smelter smoke nuisance, an effi- cement dust, fumes from acid

nected to a suitable source of high Fume Nuisance electric potential. To keep the r des through the gases, unidirectional direct current is used. The gases passing between the electrodes become ionized and the suspended particles removed by the forces acting between the elect-

The process has been used succient process of electrical precipita- plants, chlorine gas from electro-



Exhaust Flue from the Treater at the Hooker Electro-chem Falls, N. Y.—Voltage Off.



Cut No. 94 Exhaust Flue from the Treater at the Hooker Electro-chemical Company's Plant at Niagara Falls, N. Y.—Voltage Applied.

tion has been developed. operation, put it within the reach tries. of almost any plant where its installation is desired or where a nuisance exists.

The process is used for removing either solid or liquid particles carried in suspension in air or other gases. This is done by submitting the gases and suspended particles to the action of a strong electric field maintained between so-called collecting electrodes" and "discharge electrodes," the latter being

REASONS FOR TOWN PLANNING

The need for town planning in Canada is greater to-day than ever tendency to urban growth; (2) Growing size of large cities; (3) Separation of intimate connection

If the clothes make the man, between manufacturer and worker; safety is rapidly transmitted to

The chemical plants, zinc oxide from comparatively small cost of the roasting mills, tar from illuminatinstallation, and the small amount ing gas, and fumes and dust from of electric energy necessary for its smelters and many other indus-

> It is not improbable that this process could be successfully used for collecting the "mist" from sulphite pulp plants and for overcoming the round-house smoke nuis-

As an example of the power used, the plant shown in the illustration treats 30,000 cubic feet of gas per minute with a power concharge electrodes," the latter being sumption of from 3 to 5 kws., voltinsulated from the former and consistency J in J in

hazard growth; (5) Changing methods and increased use of means of transportation; (6) Need for better arterial roads; (7) Danbefore because of the: (1) General gers of congestion and unhealthy density of building.

Educating Fishermen

Modern Methods of Handling Necessary to Increase the Use of Fish

Fish is certain to become a mush more important supplement to the meat diet of Canadians than it at present. It can be producmore cheaply; it possesses splended nourishing qualities, and, when properly cooked, is a most palatable food.

Unfortunately, much of the fish offered for sale is not of a high quality. This may, in part, le traced to the crude, careless and often wasteful methods that are used by the fishermen in taking and handling fish, and the fact that ach methods are used demonstrates the need for providing technical education for fishermen.

While Canada possesses one of the richest and most varied fisheries in the world, they are, in most instances, being exploited by men who have little or no technical knowledge of the natural history of fish, the proper methods of pr paring fish for market, as well as of other aspects of the fisheries industry. Tradition plays a large part in the lives of many fishermen. It is extremely difficult for them to shake off the obsolete practices of their fathers and adopt those that experience in other countries has shown to be superior.

During the present winter the Canadian Fisheries Association was organized under very favourable auspices. It is gratifying to note that the new association was formed for the "development of the fishing industry on commercial. scientific and educational lines The basic problem to be solved in building up the fishing industry and in popularizing the consumption of fish is the education of the fishermen.

Schools for fishermen exist in practically every European maritime nation. It is in Japan, how-ever, that fishery instruction is being carried to the greatest perfection

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Fish is a delicate food product, the handling of which requires a great deal of scientific knowledge and technical skill. This applies especially to the first stages of taking the fish and preparing them for market. Consequently, unless improvement can be brought about in the methods of the fishermen, the development of the fisheries industry will be needlessly slow and wasteful. The educational branch of the Canadian Fisheries Association has a splendid opportunity for useful work.-A. D.

At a recent meeting of the National Housing and Town Planning Council in Birmingham, the secretary, Mr. H. R. Aldridge. asserted that, since 1900, from 60,000 to 70,000 houses at a rental of less than £20 (\$97.33) let Canadians see to it that the (4) Increased rates of cost of the workman to the advantage existing housing accommodation of Great Britain.