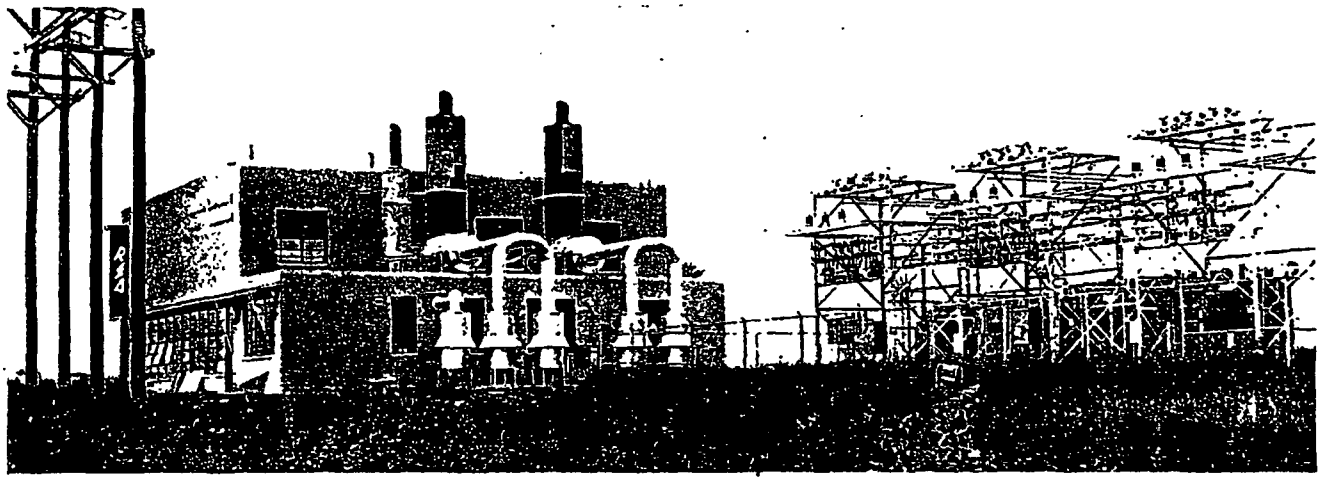


The Butler plant and substation at Plainfield, Iowa.

power encircles "The Little Brown Church"

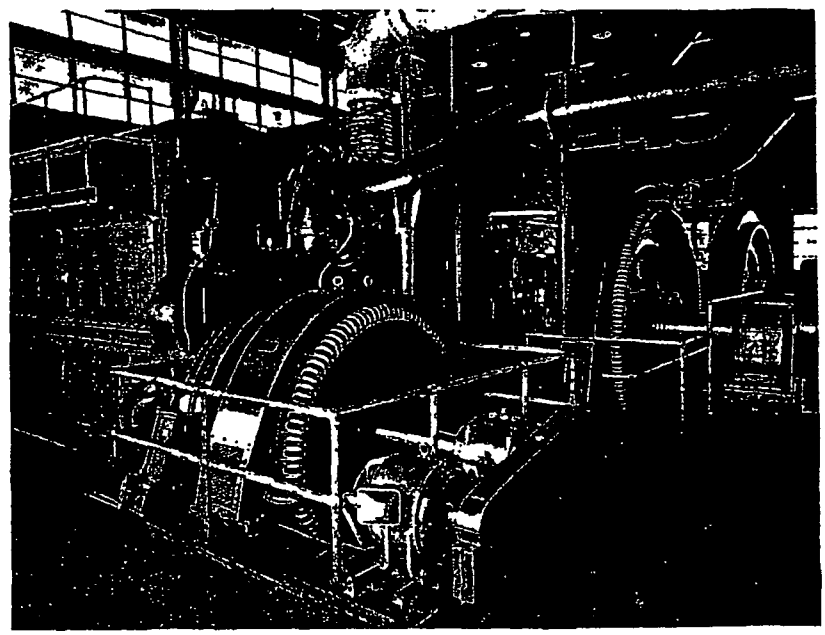
A story on the power setup of this locality was run in the Summer, 1941 issue of *Powerfax*. At that time, an Elliott 750-kw condensing extraction turbine-generator unit had just been installed at New Hampton, in Chickasaw County, Iowa.

Since then there has been considerable power development in the district. Six REA Diesel plants, scattered around the Little Brown Church area, were grouped in the Federated Co-operative Power Association. Pictures in one of these stations are shown here. Eight Elliott generators, ranging in size from 525 kw to 1600 kw, and driven by Nordberg, Superior, and General Machinery Diesels, are in use in these stations. Also several of the Diesel engines in this group are equipped with Elliott-Buchi turbochargers.

In the four stations of Central Electric Federated Cooperative Association with headquarters at Pocahontas, Iowa, there are five Elliott generators, three rated 1600 kw, 240 rpm driven by General Machinery Diesels and two rated 1000 kw, 360 rpm driven by Superior Diesels. Pictures of installations in some of these stations, involving both generators and turbochargers, received too late for use with this article, may possibly be run in the next issue of *Powerfax*.

These two co-operative associations, which were among the first REA groups established in the country, and are classed among the larger of the REA systems, have lately combined as the Corn Belt Power Cooperative.

The demand for power among farmers in the district was such that it was necessary to install a larger station than is practical with Diesel engines. Therefore, a steam plant is now being built at Humboldt, Iowa. Two Elliott 7500-kw turbine-generator units are on order for this plant.



This view shows the three Elliott generators in the Butler plant. In the foreground is a 1406-kva, 327-rpm generator connected to a Nordberg engine, which is equipped with an Elliott-Buchi turbocharger, seen immediately above the generator. In the background are two 2000-kva, 240-rpm alternators connected to General Machinery engines.

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