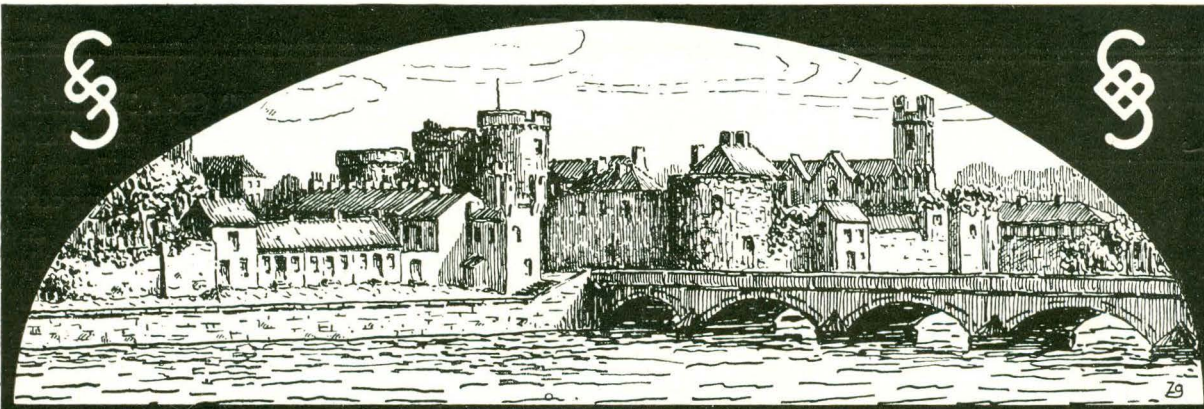




Siemens-Schuckertwerke
Aktien-Gesellschaft

SIEMENS

PROGRESS ON THE SHANNON

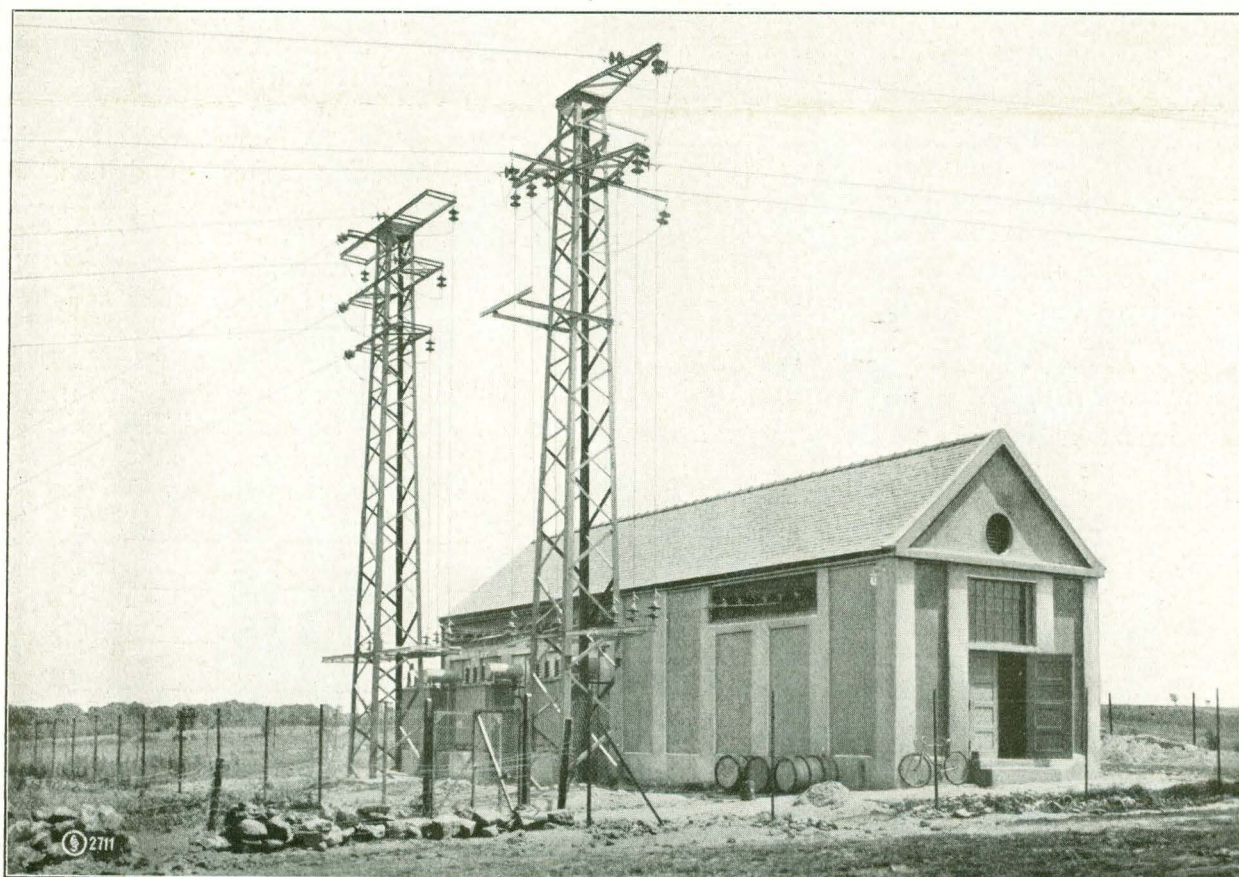
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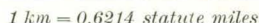
Electrical part of the Shannon Scheme

Transformer Stations 38/10 KV

The distribution of the Shannon Power over the Free State has been already described in No. 4 of this series issued in January, 1928. In the present article we shall describe the 38/10 KV Stations by

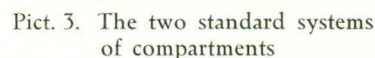


Pict. 1. „Arrangement F“ Station at Waterford, before installing the electric portion. View of the 38 KV side



The one-storied Station Buildings are standardized to such an extent that only the length of the buildings varies. Provision has been made to facilitate future extensions of each station by using two fundamental systems of compartments, which can be combined to form 5 different types called A-E. Of course a greater variety of types could be possible but on two stations only at Maryborough and Waterford, was a sixth type (F) necessary on account of the great number of 38 KV lines which meet at these points. See Picts. 1 and 4.

The buildings are of the steel frame type erected on concrete foundations. The walls are hollow built with concrete plates and blocks and plastered outside for watertightness. The cornice

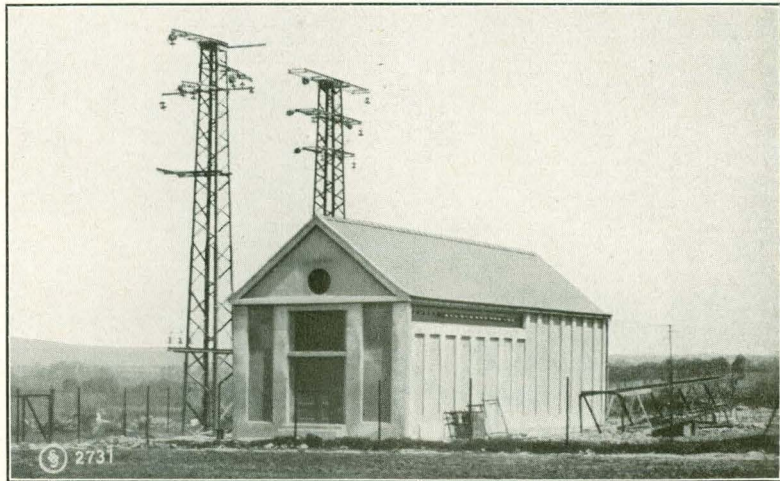


Pict. 3. The two standard systems of compartments

is reinforced with steel bars giving, together with the slated roof, a finished structure in harmony with the Irish landscape.

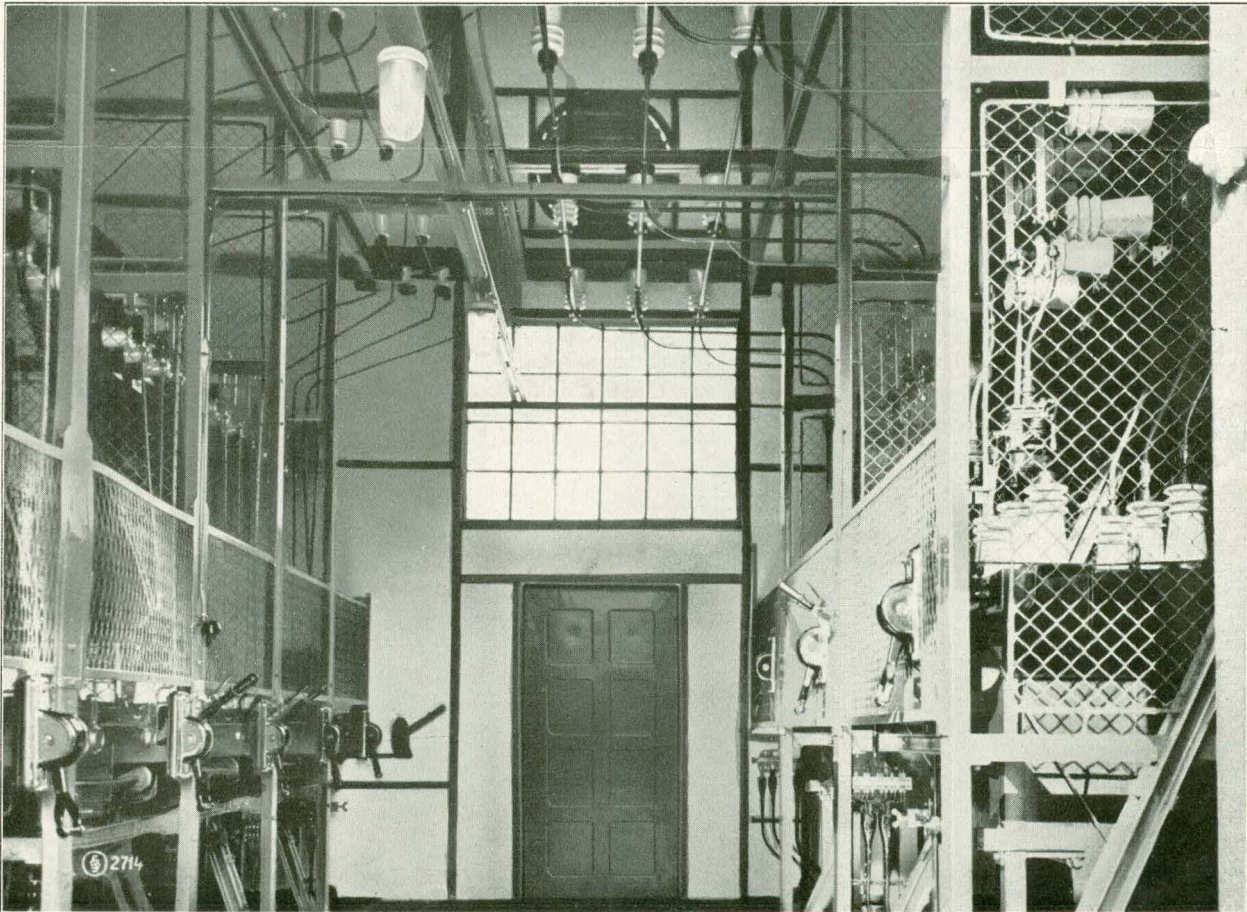
The steel structure is manufactured in series in Germany, complete for erection, which can be performed in 4–8 days according to the type required.

In order to complete the required 60 Buildings within the construction period and considering the great distances between the sites as well as the costs reasonable for a first class work, it was necessary to train special gangs for the following various building sections: Foundations, Steel Work Erection, Blockmaking, Wallbuilding, Roofing, Plastering, Flooring and Painting. By this method it was possible to build, for instance, a "C type" station within 2½ months and to complete 3–5 stations every four weeks. A completed building installed with electrical equipment can be seen on Pict. 7 showing the C Type erected at Kilkenny.

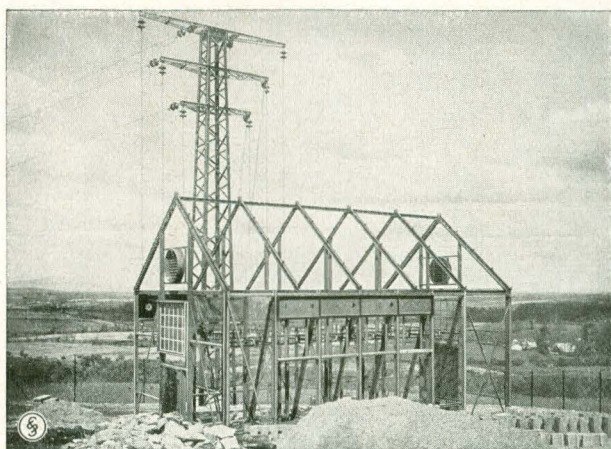


Pict. 4. „Arrangement F“-Station at Maryborough, view from the 10 KV side

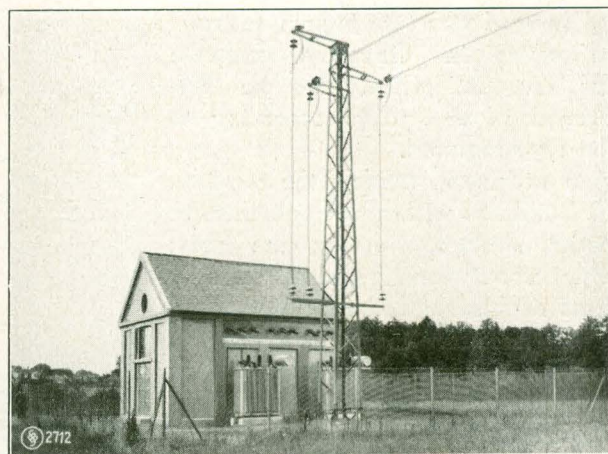
The Building work on Loop IV has been carried out by the Dublin firm Mr. Richard Gough, while in Loop I the firm Dublin Builders, Limited, have



Pict. 5. Inside view

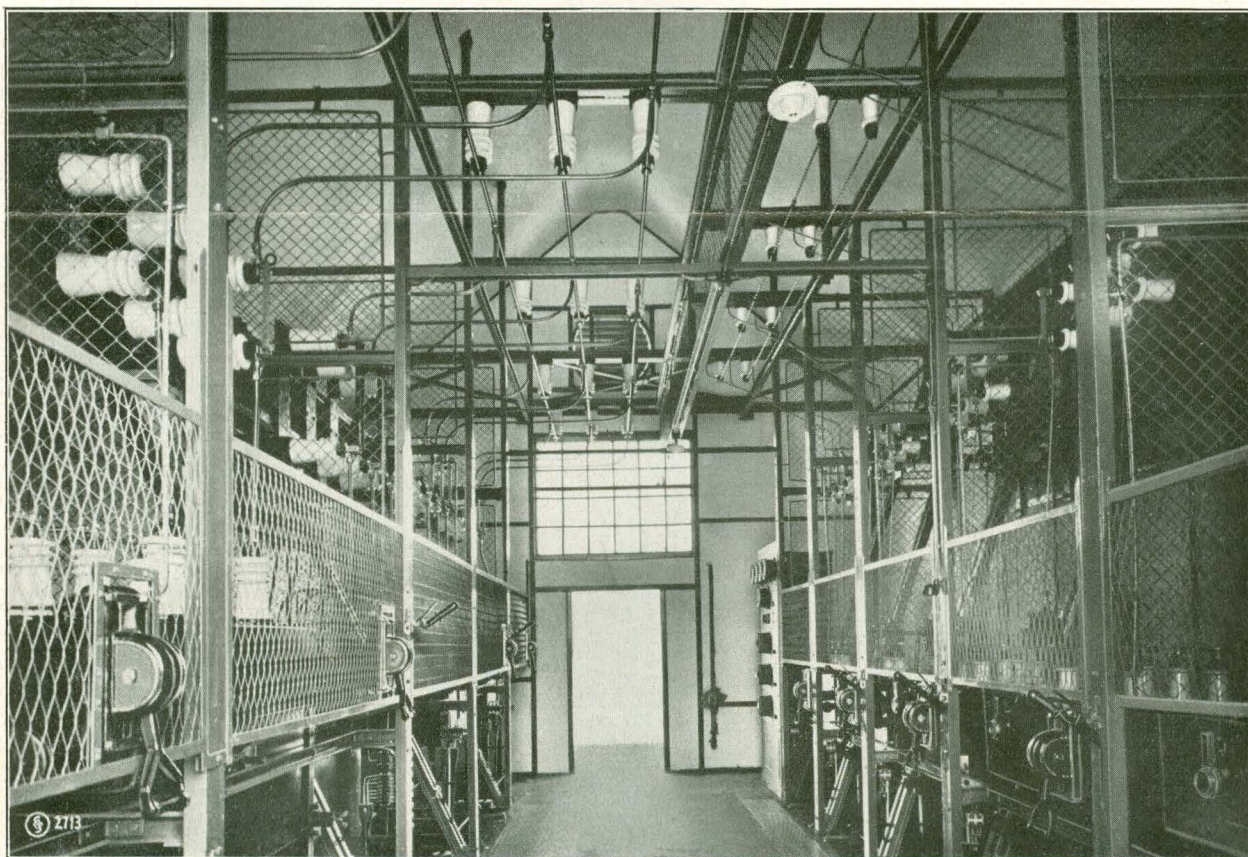


Pict. 6. Steel structure of a station „Arrangement D“ at Wexford



Pict. 7. Station Kilkenny

erected the necessary stations. Loops II and III are being built by Messrs. Siemens-Schuckertwerke, Head Office, Dublin themselves employing herefor Irish staff and Irish labour.



Pict. 8. Inside view