

# Double 11kV Connection to G.R.Ward and Sons

Customer: G.R.Ward and Sons

DNO: Western Power Distribution



This project included a ring connection between two new Points of Connection into WPD network. Second stage of the project included LV redirection and the Third stage of the project included installation of the Power Factor correction facility.

Through our detailed design we have secured customer's supply by installing a double connection to two separate OHL poles near the farm's boundary and installing ring connection through the property.

Some of the LV supply had to be redirected to provide an upgrade and redundancy to the existing supply leading to a number of farm facilities. Additionally we have evaluated customer power loss profile and improved it by installing a brand new LVAC switchboard to facilitate power factor correction.

LV section of the installation has been adopted by ESP Pipelines as a part of the IDNO agreement.



G.R.Ward and Sons

## Scope:

- Completion of two (2) designs: to WPD and ESP specifications
- Supply, delivery and installation of 2no. 1000kVA package substations and auxiliary equipment
- Supply and installation of the substation GRPs
- Coordination of the earthing installation throughout the site
- Management of the WPD intake switchroom plinths construction
- 2no.11kv cable pull from the OHL point of connection the new substation
- Installation of 11kv Cable between the newly constructed substations
- Internal and external earthing within WPD intake substation
- Cable terminations and cable testing
- LV rewiring and redirection
- Supply and installation of a new LVAC board
- Supervision of a brick build containment for the LVAC switchboard
- DNO liaison and connection coordination
- Project management

## WPD RMU



## Power Factor Correction

