



Engineering Solutions and Energy

Supplementing the grid at local sub stations

Case Study

30MW Power Installation

Supplementing the grid and ensuring homes and industries have power despite remote location.



ESE project managed, installed, commissioned and maintained a 30MW power installation in an African region growing rapidly to support the local grid supply. From initial concept, through the design stage we carried out a full site survey working with the client to project manage the set up from design and delivery to site, through to full installation.



Contact us

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Client:
African Energy Supplier

Market:
Energy Utilities

Project:
Due to the rapid growth in industry this had created a shortage of power in the region. The client asked for us to provide a solution to supplement the grid for 18 months ensuring no homes or industries were without power in the local region during times of peak demand.

Problem:
The local grid could not cope with periods of peak demand and power to the region was vulnerable due to political upheaval. Added to this the site was in a remote location prone to extreme temperatures.

The voltage required at the connection point to the grid was 13.8kV which required the supply of step up transformers to step it up from 400V.



Package:
In excess of 30MW of generation with all ancillary items, including transformers, cables and fuel tanks including four days of fuel autonomy.

All equipment had to be delivered to site from the UK. All logistics and export administration was carried out by ESE.



Technical Solution:

A full site survey was carried out and the client was presented with a cost and fuel efficient bespoke solution.

We then project managed the set-up from design and delivery to site through to full installation.

ESE also provided on site engineering staff who carried out all maintenance work and servicing at the OEM's recommendation.

All equipment was supplied in 20' ISO containers for ease of shipping and to save on transport costs.

Full load reporting and fuel usage reports were presented on a weekly basis at the clients request. This was then used to invoice the local utility company for kWhrs used.

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