

Project Overview – Eveley Farm

“Connecting you to the grid”



PROJECT STATISTICS

Project: Eveley Farm

Location: Houghton, Hampshire

DNO: SSE



Voltage: 132kV

Works Awarded: Contestable & Client Side Electrical & Civil Design Works

Completed: March 2016

MAP / LOCATION



SCOPE OF WORKS – ELECTRICAL & CIVIL CLIENT SIDE

- Design for the Client Side Works of the 132kV / 33kV substation as per SSE specification
- Geotechnical Survey
- Topographical Survey for compound and access track to the substation
- Earthing Survey & Design Report for compound location & Solar Farm
- Supply & Installation of the above ground Earthing system to support structures and equipment
- P28 System Study
- Coordination for G5/4 Harmonics Studies
- Detailed electrical and civil design work

SCOPE OF WORKS – 132kV CONTESTABLE WORKS

For SSE Control Building & Protection – Supply & Installation of:

- 110v Battery, Charger & Distribution Board
- Metering Circuit Breaker Protection / Control Panel
- Bus Section Protection / Control Panel
- Inter-trip Panel
- Multi-core cables associated with the SSE contestable works
- LVAC board plus lighting, sockets, heating, de-humidifiers and small wiring systems within the SSE Substation building

SCOPE OF WORKS – 132kV CONTESTABLE WORKS

For SSE Outdoor Equipment - Supply & Installation of:

- 132kV overhead line gantry termination structures
- High & Low Level 132kv Line dis-connectors plus integrated earth switches
- High & Low Level 132kV steel support structures as required
- 132kV single phase post insulators
- High & Low Level 132kV 3 phase post insulator structures
- Single Phase CVT's plus marshalling boxes
- Single Phase VT support structures
- 132kV 3 Phase metering circuit breaker & Bus Section circuit breaker
- 132kv bus bars and clamps within the SSE compound including bus bars and clamps required to connect the client installation



CHALLENGES FACED:

- The Protection Panel design for the project was approved by SSE in July 2015 and the manufacture of the protection panel began in September 2015.
- In October 2015, SSE made a change to their standards for Protection Panels and therefore our initial design was rejected by the SSE protection Consultant.
- Standard procedure for g2 Energy would be to challenge the rejection with SSE, however, due to time constraints on the project and to endeavour to follow the initial programme of works, g2 made the decision to amend the existing design to suit SSE's updated requirements.
- The manufacture of the panel was placed on hold until design was approved, this incurred additional costs for modification and a timeline slip
- g2 Energy had a number of meetings with the panel supplier to speed the manufacture process
- The Panels were eventually completed 3 weeks later than programme which had a knock on effect with the multicore installations
- All works were completed with only a 1-week programme delay after weekend and late night working



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