

Project Statistics

Project: 40MW Battery Storage

Location: Kent

DNO: UK Power Networks (UKPN)



Voltage: 132kV

Works Awarded: Contestable, Balance of Plant (BOP)

Completed: December 2017

Project Description

Part of the first National Grid Enhanced Frequency Response (EFR) Tender in 2016, Glassenbury is a 40MW Battery Storage Site in Kent. g2 Energy were engaged by our client in December 2016 to complete the ICP design and build works.



SCOPE OF WORKS – BOP Works

- 7 x 5.7MW NEC 53' ISO Battery Containers
- 21 x 2.2MW SMA Invertors
- 21 x 2.2MW 33/.400KV Siemens Transformers
- 1 x 132kV UKPN approved ABB PASS unit (disconnect/circuit breaker/disconnector)
- 1 x 40/50MVA 132/33kV Transformer
- Design, supply and install 1 x 40' GRP containerised substation (Schneider switchgear, LV distribution, control room)

SCOPE OF WORKS – CONTESTABLE & CLIENT-SIDE WORKS

- Full 132kV Design, to UKPN specification, including electrical equipment, structural and civil design, client-side design, earthing surveys and reports and power quality system studies and reports.
- Supply and install 132kV cable including terminations and multicore cables
- Supply and install 33kV cable including jointing and terminations
- Supply and install LV distribution boards and circuits
- Supply and install all 132kV disconnectors, circuit breakers, surge arrestors, metering VT's and busbars
- Supply and install all 33kV transformers, circuit breakers, auxiliary transformer, Protection Panels and LV Battery and charger
- Design, supply and construct all foundations and structures for the electrical equipment including UKPN monitoring container, transformer, UKPN & Client-side substations including internal and external fencing
- Supply and install all above and below ground 132kV Earthing.
- Project management, including commissioning and testing

