

Project Statistics

Project: 10MW Battery Storage

Location: Cumbria

DNO: Electricity North West (ENW)



Voltage: 33kV

Works Awarded: Contestable, Civil & Electrical BOP

Completed: December 2017

Project Description

Part of the first National Grid Enhanced Frequency Response (EFR) Tender in 2016, Cleator is a 10MW Battery Storage Site in Cumbria. g2 Energy were engaged by our client in December 2016 to complete the ICP design and private Electrical and Civil build works.



SCOPE OF WORKS – Balance of Plant (BOP) Works

- Installation of 2 x 5MW NEC 53' ISO Battery Containers
- Installation of 6 x 2.2MW SMA Invertors
- Supply and installation of 6 x 2.2MW 33/.400KV Siemens Transformers
- Design, supply and install 1 x 40' ISO containerised substation (ABB switchgear, LV dist, Aux Transformer)
- All associated Civil works

SCOPE OF WORKS – CONTESTABLE WORKS

- Full 33kV Design, approved by ENW, including electrical equipment, structural and civil design, Earthing surveys and reports and power quality system studies and reports.
- Construct and fit-out new ENW substation including all auxiliary wiring, heating, lighting, power and multi-core cabling plus all associated Civil works.
- Supply and install a 33kV ENW approved switchboard and metering panel
- Supply and install the Protection System for 33kV switchgear
- Supply and install LV battery and charger to ENW specification
- Supply and install 33kV cable including trench works, reinstatement and termination
- Supply and install all Earthing within the ENW substation

