

SMITH brothers

Case Study

HV contestable grid connection:

Hulley Road Battery Energy Storage Site, Macclesfield

Electricity North West Ltd (ENWL)

Construction Dates: July 2018 – July 2019

Objectives and purpose

ANESCO, one of the UK's leading developers of battery energy storage projects, commissioned Smith Brothers to work on the delivery of the 20MW Hulley Road battery energy storage site (BESS), following a string of successful joint projects.

With an initial target energisation date of January 2019, Smith Brothers was tasked with constructing a 33kV metered connection supply substation to Electricity North West Ltd (ENWL) specifications.

The project included the installation of a 1.2km metre, 33kV 3x single core XLPE cable connection to the Macclesfield Super Grid Supply Point.

Project delivery

Construction began in July 2018, with the installation of the grid cable ducts through the narrow streets of a local housing estate. Through careful planning and co-ordination with residents, this was achieved without complaint.

To avoid disruption to local businesses which share the access road to the battery energy storage site (BESS) – some of the grid cable installation works were carried out during the night.

Additional civil design and construction was needed to sheet pile an existing 5m high embankment for the ENWL 33kV substation and to form a pile foundation.

The construction programme was further extended, awaiting legal consent from ENWL and NGT for the final section of the grid cable route into Macclesfield Super Grid.

Contestable works were completed on 15th April 2019, with handover to the ENWL completed on the 1st July – ready for energisation on the 31st July.

Project Manager, Steve Bolland, was pleased to deliver a second 33kV grid connection to this valued client.



Smith Brothers (Contracting) Ltd

Unit G8 Navigation Close
Lowfields Business Park
Elland
West Yorkshire
HX5 9HB

Tel. +44 (0) 333 3583 653
Email: enquiries@smithbrothersltd.co.uk
www.smithbrothersltd.co.uk