

Project Overview – Cooper House Farm

“Connecting you to the grid”



PROJECT STATISTICS...

Project: Cooper House Farm

Location: Lancashire

DNO: Electricity North West (ENW)



Voltage: 6.6kV

g2 Energy Works Awarded: Contestable, Client-side

Completed: March 2016

SCOPE OF WORKS – CONTESTABLE

g2 Energy were responsible for the Civil & Electrical Design & Build for the Contestable Works which included the Supply & Installation of:

- 6.6kV ring main unit and protection relays in a “loop in loop out” configuration
- Battery and charger, plus all multicore cabling
- ENW approved 6.6kV cabling from the Point of Connection to the Substation, including jointing, termination and reinstatement
- High Voltage Switchgear plus Protection equipment
- GRP substation with heating, lighting and power, plus a suitable foundation
- Standard Earthing solution around the substation, including LV and Earthing Cable
- GRP metering substation plus a suitable foundation

All Contestable design was approved by the DNO and built on site to their specific requirements.

SCOPE OF WORKS – CLIENT-SIDE

Client Side Civil & Electrical Design and Build to include:

- Customer Substation, to include structural and foundation design, protection setting design and the HV and LV cable
- Supply and install the 6.6kV switchgear, including a battery and charger and G59 protection panel plus all multicore cabling
- Supply and install a 6.6kV pad-mount transformer plus a suitable foundation
- Supply, install and commission the 6.6kV and LV cable, including trench works and reinstatement
- Supply and install a GRP substation plus a suitable foundation, and all heating, lighting and power
- Design, supply and install a standard Earthing Solution utilising CDEGs software

MAP / LOCATION



CHALLENGES FACED:

- One week prior to energisation, the client informed g2 Energy that their P28 study, which had been commissioned by others, identified an issue which jeopardised the energisation of the project
- Despite it being outside of the initial scope of works, g2 Energy were requested by the client to identify a solution
- The identified solution required the design and installation of a new protection scheme, where the G59 controlled the LV Solar Park equipment
- g2 Energy were able to complete the design and build works on time and to schedule, meaning the Solar Farm was connected before the March 31st tariff change deadline.



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