



# SOLAR PV FARM CONNECTION

## DEVELOPMENT IN STAVELEY, DERBYSHIRE



### Power

Value	Multi-million
Voltage	33kV
Capacity	20MVA
Client	Undisclosed
Duration	8 months
Date	February 2024



### Pre-construction

33kV DNO switchroom and cable route design - JSM employees completed the detailed design which included single line diagrams, protection and interface design – Power System and G99 Studies - Cable route design and cable calculations, ducting, cable install and jointing - earthing design, report, soil resistivity test, earth mat installation and fall of potential test.

### Construction

33kV DNO Switchroom - supply and install 33kV Switchroom inc Battery Chargers and Metering Room.

3.1km 33kV cable duct installation inc cable pull and jointing.

### Post-construction

Works included cold and hot commissioning, energisation and providing As-Built records

- Principle designer
- Principle contractor
- Compound construction
- Compound earthing
- DNO switchgear & substation
- 3.1km cable route

- Civils
- 33kV Cables & Duct installation
- LVAC supplies
- Jointing & Terminations
- Hot and cold commissioning with Energisation

# PROJECT CHALLENGES

## CHALLENGE



### Design Approval

National Grid Electricity Distribution (NGED) design approval.

### Streetworks approvals

Disruptive works for local area.

## SOLUTION



Worked closely with the client (and their contractors) and NGED to achieve an acceptable design for approval.

JSM Streetworks team worked closely with the local highways authority to agree all permitting of works to ensure minimal disruption to the local communities.

