

# SOLAR PV FARM CONNECTION

DEVELOPMENT IN STAVELEY, DERBYSHIRE

**Team** - 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.



Principal Designer

Principal 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



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## Project challenges

### Challenge

### Solution

#### Design Approval

National Grid Electricity Distribution (NGED) design approval.

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

#### Streetworks approvals

Disruptive works for local area.

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

