## Project Profile



# **SOLAR PV FARM CONNECTION**

**DEVELOPMENT IN BRAINTREE, ESSEX** 

**Team -** Power | **Value -** Multi-million | **Voltage -** 33kV | **Capacity -** 35MVA **Client -** Undisclosed | **Duration -** 5 months | **Date -** June 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

3.6km 33kV cable route

### **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

3.6km cable route

Civils

33kV Cables & Duct installation

LVAC supplies

Jointing & Terminations

Hot and cold commissioning with Energisation

UK Power Networks Design Approval.

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# Challenge Adjacent third party project Adjacent 3rd party project required excavation of the same route, high probability of disruption to local residents. Solution JSM assisted in arranging a collaborative shared trench arrangement with the host DNO to facilitate a joint 132kV and 33kV duct installation. DNO Design approval

Worked closely with the client (and their

an acceptable design for approval.

contractors) and UK Power Networks to achieve