

33kV Connection to 5.28 MW Redlands PV Park

Customer: JUWI Renewables 

DNO: Western Power Distribution 

Location: Bridgewater, Somerset, UK

The Redlands PV Park is located in the flood plain of the Pedwell region. The challenges of the project included the design of the 1.5m elevated WPD substation which also required a separate walkway design.

The HV cable installation required 2 separate directional drilling sections under wide farm drain ways. Another directional drilling section was required for the installation of the LV cable.

The containerized substation and 2 switchboards were provided by Schneider. This was the first combined substation built by GEW2 in WPD region and provided a cost efficient solution for the customer.



WPD/JUWI Combined Substation

Scope:

- Supply and installation of a containerized 33kV combined WPD/Customer substation
- Supply and installation of WPD HV cable
- Supply and installation of 2 – panel WPD 33kV Schneider switchgear
- Supply and installation of 2 panel customer switchgear
- Supply and installation of 2 x 110 VDC battery chargers
- Design a custom steel walkway to allow year round access to elevated WPD substation
- Design coordination with the customer appointed civil sub-contractor
- 3 sections of the directional drilling under the farm drain ways
- Excavation and reinstatement of the WPD HV cable route
- Design supply and installation of a separate LV supply into WPD substation from a pole mount transformer

Schneider CBGS Panel



Custom Elevation Plinth

