

## Case Study

# West Carclaze Solar Farm

# 33kV Ltd

33kV Ltd was established in September 2013 offering High Voltage Electrical and High-Pressure Pipeline Consultancy and Construction services. The company has continually developed its service offering to support the fast-growing UK Distributed Generation market via Traditional Gas fired and Renewable Generation.

The company now offers a full range of ICP, UIP, EPC and O&M services across the UK.

### Project Details:

- **Client—Canadian Solar**
- **Type—Solar Generating 5MW**
- **Contract—ICP Full Works**
- **DNO—Western Power Distribution (WPD)**
- **Voltage—33,000V**
- **Connection - “T” Connection**



Canadian Solar are a leading international renewable energy company.

Canadian Solar purchased the site in the dash to meet the 2017 31st March deadline.

The site was situated on top of an old 10m deep china clay waste pit and it was the most technically challenging project completed to date.

The pit was located on high ground with a challenging 1.3km cable route rising from the low level WPD 132/33 kV BSP Station.

33kV Ltd designed a novel sub station design with a dual meter breaker option that was approved by OFGEM and then WPD respectively. It allowed a second solar park to utilise the Substation at a later date. The second solar park was connected in late 2018.

The engineering demands were extreme, the works undertaken in severe weather conditions of January 2017 and the ground conditions were further complicated by the construction of the retaining structures and capping of the china clay waste pit.

The site connected and was energised before the 2017 deadline



33kV Ltd  
Head Office  
Unit 11 Bridge Road Business Park  
Bridge Road  
Haywards Heath  
RH16 1TX

w: 33kv.com  
e: info@33kv.com  
t: +44 (0) 1444 226 365

