## 4MW Wind Turbine export connection at Longcliffe Quarry

# Customer: Longcliffe Quarries Ltd. CALGIUM CARBONATES DNO: Western Power Distribution

This connection was for newly installed 2 x 2 MW turbines within the Longcliffe Quarries property line. During the design, special provisions have been made for the customer HV substation where generation power was first diverted to the customer distribution boards for the quarry needs and then exported onto WPD network.

The challenges of this project included working within the quarry soil consistency which required additional earthing installation and 6 meter deep boreholes to allow sufficient depth of the earthing mat.

#### WPD RMU GRP



#### **Plinth Brickwork**







### Scope:

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- Supply and installation of WPD 11kV RMU unit.
- Supply and installation of WPD GRP enclosure
- Supply and installation of WPD metering
- Construction of WPD plinth
- Supply and installation testing of 11kV WPD cable
- Supply and installation of metering kiosk and plinth
- Supply and installation of CC cabinet and CTs
- Testing and commissioning
- HV cable terminations
- Excavations in the public highway and under disused railway
- Section 50 application and permit
- Customer civil contractor supervision
- Earthing design
- Soil resistivity tests

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