

Case Study

UK Short Term Operating Reserve (STOR) Contract.

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—Cummins Power Group**
- **Type—Gas Fired Power Generation**
- **Contract—200MW**
- **DNO— WPD, UKPN, ENW, SPEN, NPG**
- **Voltage—11kV and 33kV**
- **Connection - “T” Connection and LiLo**



Cummins Power Group (CPG) are a Global manufacturer and installer of Gas and Diesel fired Generating Units.

CPG were contracted to design and install circa 200MW of Gas Fired generation at multiple sites around the UK under the National Grid STOR programme.

33kV Ltd were engaged to support the HV design process for each and further supported CPG by undertaking Voltage, Harmonic, Earthing and Protection studies and designs.

The company supplied SAP's for the projects and undertook various construction, testing and commissioning tasks as the projects evolved.

The company undertook interlocking and inter-tripping design works for each site and worked closely with each DNO to ensure sites were compliant to their respective requirements.

Once the sites were built 33kV Ltd commissioning engineers worked along side CPG commissioning engineers to commission and document each site.

33kV Ltd undertook all the G59 witness testing with the local DNO's

The final site was commissioned in 2018.



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