

Generating Power

Project Name:

Bristol University - Resilience Project

Client Name: Southern Electric Contracting



Project Summary

Power Electrics (Bristol) Ltd. has recently completed an installation of two generating sets at Bristol University on behalf of SEC Ltd.

The project encompassed 2 off 1000 KVA standby power units for the Medical Science Facilities. The generator provides back up for mains failure with no need to load shed.

Equipment Summary

Generator – Two continuously rated PE 1000P1, 1000KVA, 800KW 1390 Amps, 230/400 Volts, 50 Hz AC diesel generating sets running at 1500rpm.

Control Panel – Insight 5000 auto start control panels complete with automatic shutdown protection for:

Low oil pressure, High engine temperature, Over/under speed, Over/under voltage, Fail to start, Overload, High lubrication oil temperature and Fire.

Engine – MTU/DDC 18V2000G63E – 18 cylinder, V formation, water cooled, turbo charged and air to air cooled.

Alternator – Newage International single bearing brushless directly coupled to engine with 3 Phase sensor and regulator module.

Enclosure – Weatherproof acoustic containers to 55dBA @ 1 mtr. Dimensions: 14300 x 3200 x 3750.

Bulk Tank – 10000 litre double skin fuel tank, built to BS799 type 3.