

Generating Power

Project Name:

Chelsea Building Society, Cheltenham

Client Name: Lorne Stewart Plc.



Project Summary

Power Electrics (Bristol) Ltd. has recently completed the successful turn-key installation of a diesel-powered generator to provide stand-by power to the HQ of Chelsea Building Society in Cheltenham. The contract awarded by Lorne Stewart Plc. was completed **on-time** and **on-budget**.

The project encompassed the provision of an electrical distribution infrastructure which delivers LV power around the site from the main LV switchboard to the mains intake and finishing at the output terminals of all site distribution boards.



Equipment Summary

Generator – FG Wilson Eng. continuously rated model P800P1, 800KVA, 640KW, 1112 Amps, 230/400 Volts, 3 Phase, 50Hz AC, diesel driven generating set running at 1500rpm.

Control Panel – Auto start on mains failure, complete with auto shutdown protection for low oil pressure, high engine temperature, overspeed and fail to start.

Engine – Perkins 4006 TAG3A, 6 cylinder in line formation, water cooled, turbo charged diesel.

Alternator – Leroy Somer single bearing brushless design, direct coupled to the engine. Complete with permanent magnet and 3 Phase sensing module.

Enclosure – ISO style acoustic container rated at 65 dBA @ 1 mtr, complete with air inlet and outlet attenuators, weather louvers and bird guards with internally mounted exhaust system.