



**ELECTRICAL &
COMMUNICATIONS
ENGINEERING**

O'DONNELLGRIFFIN
EXPERTISE • COMMITMENT • RESULTS

Specialist areas of expertise include:

Design & Installation

- Power generator sets ranging from 4kVA to 3000kVA
- Diesel, gas, bi-fuel, co-generation and tri-generation power sets
- HV and MV switchgear and transfer & control technologies
- Automatic synchronising systems

Maintenance

- Programmed scheduling based on manufacturers' recommendations and our expertise
- Load bank units for testing generators, UPS units, switchgear and battery autonomy
- Fuel quality testing and treatment
- Engine oil testing and analysis

Proven and reliable power generator solutions.

O'Donnell Griffin has been involved in the power generation industry for over 100 years, and has extensive experience in the design, installation and maintenance of emergency diesel generators.

Our qualified engineers, technicians and electricians are fully trained and capable across a wide range of generator models. Their skills range from expertise with diesel and gas engines through to co/tri-generation systems, generator control systems, switchboards, automatic transfer systems, fuel storage, exhaust systems and acoustic design. As an independent supplier and installer, we are able to source from all top tier generator manufacturers to provide you with flexible, custom built, fit for purpose generator sets.

O'Donnell Griffin's national service division operates 24 hours a day, 7 days a week across metropolitan, regional and remote Australia to ensure your generator operates when required. Our programmed maintenance schedules and testing services will ensure that continuity of power supply can be guaranteed for your business in the event of unplanned power outages.

VISIT US AT: odg.com.au

CALL: 1300 100 ODG (1300 100 634)



CASE STUDY Docklands Standby / Co-generation Power Sets

This project, for a major Australian bank, is the latest building in the Docklands precinct in Melbourne, Australia. O'Donnell Griffin's scope of works involved the design, supply and installation of 4 x F.G.Wilson P2200E generators complete with duty / standby PLCs for load control throughout the building, BMS interface, exhaust systems, acoustic treatment of plant rooms, 50,000 litre above ground bulk fuel system and fuel transfer system to 2 separate plant rooms. The commissioning involved the testing of each generator to 100% for 8 hours using load banks, generator synchronising and integration into the building with a complete power shutdown and changeover. This project also involved a co-generation plant which included the supply and installation of 2 x F.G.Wilson PG500B and 2 x PG620B gas generators complete with a local PLC for mains synchronising, a jacket water heat recovery system, 900kW absorption chiller and a calorifier. The absorption chiller is used as the duty chiller in the building, with additional chillers used to complement the cooling requirements of the building.

CASE STUDY IBM Generator Maintenance

O'Donnell Griffin has been providing electrical and generator maintenance services to IBM since December 2008. At the very beginning of the contract period, O'Donnell Griffin's technicians identified that IBM's stand-by diesel power generators were in poor condition as a result of sub-standard engine cooling system maintenance. O'Donnell Griffin quickly mobilised technicians and engineers across multiple sites to correct the issues associated with IBM's 19 generators. The team rebuilt 3 x Perkins 4008 1000kVA diesel generators, and completed a full system integration test at 110% power load for 4 hours each to ensure the rebuilt generators operated properly. The generator maintenance works performed for IBM by O'Donnell Griffin includes: engine/mechanical systems, alternator and control systems, electrical distribution systems, fuel systems and building management system interfaces. By integrating HV switchgear and generator maintenance services, O'Donnell Griffin provides IBM with a solution that maximises the efficiency and integrity of their critical assets.

Design, supply, installation and maintenance of power generator solutions.

POWER GENERATION SOLUTIONS

Flexible Design

- Custom power generator sets ranging from 4kW to 3000kW
- Diesel, gas, bi-fuel, co-generation and tri-generation solutions
- Fixed generators in purpose built rooms
- Containerised generator sets for rugged environments and fast installation
- Mobile sets with purpose-built trailers
- Acoustic design to meet stringent noise levels
- Self banded extended runtime fuel tanks within the enclosure
- Modular systems to provide flexibility in installation

Quality Supply & Installation

- Expertise across all top tier generator manufacturers
- Above / in – ground fuel tanks
- Fuel control systems
- Exhaust systems, including heat recovery units for tri-generation systems
- PLC controls
- BMS interfaces
- Simple single set manual / auto start control systems
- Multiple generator set synchronising
- Mains paralleling
- Remote generator installation telemetry

Reliable Maintenance

- Custom service contract balancing your operational, technology and economic requirements
- Programmed maintenance schedules based on our expertise and manufacturers' recommendations
- Utilisation of load bank units for testing the integrity of stand-by diesel generators without disrupting your power network
- Management and maintenance of bulk storage fuel tanks, including fuel testing and treatment
- Scientific analysis of engine oil
- Uninterruptible power supplies testing
- Switchgear condition monitoring and testing

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