



SUSTAINABLE ELECTRICAL SYSTEMS

ELECTRICAL &
COMMUNICATIONS
ENGINEERING

**O'DONNELLGRIFFIN**
EXPERTISE • COMMITMENT • RESULTS

KEY SUSTAINABLE SOLUTIONS

- Energy audits
- Power factor correction
- Renewable & sustainable energy
- Energy efficient lighting and control systems
- Effective preventative maintenance, including emergency and exit lighting
- Energy efficient generation solutions (design, installation, service & maintenance)
- HV / LV switchboard, thermo-graphic surveys & circuit breakers
- Regular analytical and maintenance reporting
- Data & fibre installations and maintenance
- 24/7 call centre and response service

Developing sustainable Design, Installation, Commissioning and Service solutions

O'Donnell Griffin's accredited professionals partner with customers from project inception to completion and beyond to deliver sustainable outcomes.

Our partnership approach provides pre-contract support, helping our customers' scope, design, cost and plan sustainable solutions through to installation and service completed by highly skilled certified technicians.

Solid experience and specialist skills together with an effective Integrated Management System (IMS) enables O'Donnell Griffin to develop comprehensive sustainable solutions in conjunction with each customer and integrate them into new and existing operational environments for immediate results with long-term benefits.

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CLIENTS INCLUDE

- Ormat Pacific Geothermal Power Station, Te Huka, NZ (Electrical installation and commissioning)
- Ormat Pacific Geothermal Power Station, Kawerau (Electrical, instrumentation and commissioning)
- YHA, The Rocks (designed and installed low emission backup power systems)
- East Perth Central TAFE, Perth WA (Design, Supply and Installation of 50KW Solar Array)
- MRA (Midland Redevelopment Authority), Perth WA (Design, Supply and Installation of 60KW Solar Array)

O'Donnell Griffin have also partnered with the following clients to reduce energy consumption and carbon emission: Knight Frank, Jones Lang LaSalle, Clipsal, CB Richard Ellis, Harvey Norman, Spotless, Adelaide University and various TAFE's, Internode, Australian Taxation Office and Centro.

CASE STUDY

YHA, The Rocks

O'Donnell Griffin installed a low emission supplementary power supply system for the new \$25 million YHA The Rocks Hostel and Archaeological Centre in central Sydney.

The FG Wilson 250kVA bi-fuel power supply generator, which runs on a mix of diesel and natural gas, will run for 2-4 hours a day at the hostel and will contribute to a cut in harmful generation emissions and energy costs. The generator will also be a critical safeguard for the YHA operation as it will offer essential backup power during power outages.

In consultation with the Sydney Harbour Foreshore Authority and the customer, O'Donnell Griffin designed and installed the state of the art generators, subject to a range of heritage considerations at the site in the historic harbour side suburb of The Rocks, north of Sydney's city centre.

Bi-Fuel generating sets were used as an alternative to diesel generating sets in order to reduce emissions and maintain electrical load requirements.

The FG Wilson Bi-Fuel generating sets use a mixture of natural gas (70 per cent) and diesel (30 per cent), resulting in cleaner emissions and lower maintenance and operating costs (where natural gas is competitive with diesel in price).

The Bi-Fuel sets provide diesel genset power ratings; quick starting; diesel load acceptance/rejection; smaller space requirements per kVA, and a lower weight compared to alternatives.

This is the 1st Bi-fuel generator installed and commissioned in Australia. These units are extremely popular in Europe on Standby application, due to their excellent load acceptance (60%) where a typical dedicated gas set is 30%.

ONGOING SERVICE & MAINTENANCE

O'Donnell Griffin's national service division operates 24 hours a day, 7 days a week across across New Zealand to meet our clients' operational and strategic asset management requirements.

Electrical Services

- UPS systems
- Building management systems
- Generator supply, installation & maintenance
- Lighting systems
- Equipment diagnostics
- PLC's installation & programming
- Safety curtains
- Pumping systems

Testing Services

- HV circuit breaker and protection relay testing
- Earth leakage testing
- Circuit earth impedance testing
- Electronic diagnostics
- Insulating oil sample testing
- Surge diverter testing
- Thermographic testing

Management Services

- National client management
- Energy audits and reviews
- Process verification audits
- Multi-service facilities maintenance

O'Donnell Griffin is quality certified.

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