



Name:	Power Generation Project – Melbourne	Client:	Major Australian Bank
Value at Completion:	\$8,200,000	Site Location:	Melbourne

Project Description: Supply and installation of 4 x 2200KVA diesel generator's, 2 x 500KVA and 2 x 620KVA gas generators.

This project, for a major Australian bank, is the latest building in the Docklands precinct in Melbourne Australia. The new building has the largest 'single tenant' floor space area in the Southern Hemisphere and occupies a prime position along the Yarra River.

This project involved the supply and installation of 4 x F.G.Wilson P2200E generator's complete with duty / standby PLC's for load control throughout the building and BMS interface, exhaust systems, acoustic treatment of plant rooms, 50,000 litre aboveground bulk fuel system and fuel transfer system to level's 10 and 11, as there are 2 separate plant rooms.

O'Donnell Griffin was responsible for the detailed design of the complete standby generation package.

The commissioning involved testing of each generator to 100% for 8 hours using dummy 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 generator's complete with a local PLC for Mains Synchronising, a jacket water heat recovery system, 900KW absorption chiller and a Calorifier. The absorption chiller will be used as the Duty chiller in the building with additional chillers' used to compliment the cooling requirements of the building.

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PROJECT PROFILE

The Mains Synchronising connections included the Supply & Installation of reactors to limit fault current level's imposed on the grid.

This building is the first 6 star green energy building of its size in Australia. The co-generation plant is a major component of the rating, and the successful implementation of the plant is a significant achievement for the ODG team. The project was completed on time and on budget despite the difficult logistics associated with the project due to its immense footprint.

Demand for energy efficient co-generation power technology is expected to increase over the next few years as new federal legislation requires building owners to disclose energy efficiency levels before they lease, sub – lease, or sell any office space over 2,000 sqm.

Personnel: John Rimac, Axel Brendel

Quality Standards Applicable: AS 3000, AS 1940, AS 1692, AS 3010

Specific OH & S Requirements: As per ODG HSEC plan

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