

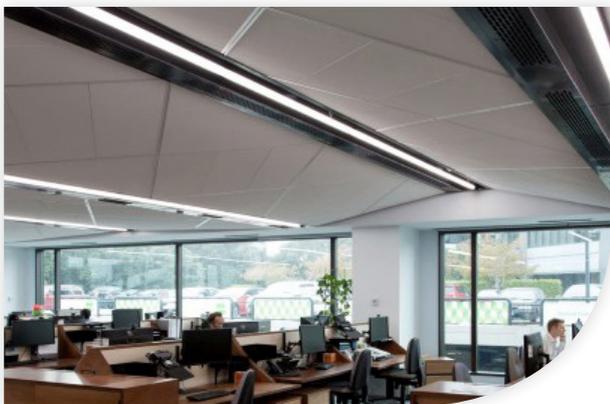
Genesis, Bryce Street, Hamilton

Scope of Work

Developed and built by Foster Construction on an integrated fit-out basis, the new Genesis Energy Building at the corner of Tristram and Bryce Streets Hamilton is a 7,000m² office building with large floor plates, undercover parking and a number of green design features.

The office structure and the building is built to seismic design to Importance Level 4. The building has transformed the way Genesis Energy operates, delivering a number of efficiencies and greater collaboration between staff.

McAlpine Hussmann designed, supplied and installed the air conditioning and ventilation system for the building,



Engineering Features

- A centralised Trane air cooled package scroll chillers located on the roof of one of the buildings supplies chilled water to the in-ceiling services across both buildings.
- Each building also has a centralised VRF-Air Handling Unit supplying fresh air to the floors and is complete with a Dx cooling/heating coil to adequately temper the incoming fresh air and supply air at a constant temperature throughout the year. The fresh air is relieved via roof mounted exhaust fans.
- All chillers come with their own on-board variable speed pumps, tanks and expansion systems, thus saving valuable plant area floor space.
- In-ceiling fan coil units with chilled water cooling coil and electric reheat are used to condition the office space. Approximately one fan coil unit is used to serve a floor space of 75 sqm. - a total of more than 100 fan coil units through the building, each with its own digital controller.
- A fully fledged Building Management System (BMS) is installed for control of the installed services including lighting control and energy management. The system can be accessed remotely via web based software.

Project Highlights

Project Start: November 2016
Project Finish: December 2017
Value: \$3.0 million