

Central Thermal Plant - Stage 2

Chippendale, NSW

Fit out and commissioning of the 'CTP'.



PROJECT DESCRIPTION

Due to the enormous success of Stage 1, Frasers awarded Total Stage 2 of the project which included design, procurement, construction and commissioning. Central Thermal Plant Stage 2:

- Construction within one level of basement underneath building Block 4S and located directly adjacent to the CTP1 basement
- 11kV grid connection to a private HV substation located in the basement
- CTP2 electrical distribution to four adjacent buildings to provide electrical demand
- Installation of a diesel back-up generator to provide power to essential services and keep the CTP operating at a minimal capacity

The continued relationship with Frasers and award of the Stage 2 project firmly establishes Total as a dominant player in the polygeneration market.

OVERCOMING CHALLENGES

A considerable challenge was the Thermal Energy Storage (TES) tank which contains 500,000L of 80°C hot water. A large concrete room acts as a tank and was insulated then lined in situ. Confined space and safe buildability were a challenge, but the tank is now in operation and very effective. Over 48 hours it loses less than 1°C to the environment. Great for dealing with the morning shower rush, all from the cogeneration plant overnight.

The project won 'Most Innovative Project 2014' from NSW Master Builders & 'Best Cogeneration or District Energy Project 2014' from Energy Efficiency Council.

CLIENT

Frasers Property Group

PROJECT VALUE

\$22 million

CONTRACT

Design & Construct

COMPLETION

October 2015



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