

Santos Place Building, Queensland

**DEVELOPER/
CONTRACTOR:** Nielson Properties/
Hutchison Builders

LOCATION: 32 Turbot Street, Brisbane,
Queensland

DESCRIPTION: Gas powered 1.2 MW
trigeneration plant

OPERATIONAL DATE: April 2009



Recently awarded a 6-Star Green rating by the Green Building Council of Australia, Santos Place in Brisbane is one of the most energy efficient buildings in the world. Featuring global cutting edge technologies and designed with sustainability in mind, one of the building's key features is an MTU Onsite Energy GR 1166 N5 natural gas trigeneration system, commissioned in April 2009.

CONFIGURATION

Penske Power Systems supplied developer Nielson Properties and contractor Hutchison Builders with an MTU Onsite Energy solution to power the building's trigeneration plant that provides power, as well as heating and cooling by harnessing waste heat.

The generator set comprises an MTU Onsite Energy GR 1166 N5 natural gas engine and a synchronous generator, coupled to a heat exchanger system. The heat recovered using this system fires an absorption chiller for the production of the air conditioning's cooled water. An engine management system completes the generator set and provides comprehensive monitoring of the engine's temperature, pressure and speed.

Connected parallel to the grid, the generator set runs in continuous operation and can act as emergency backup in the event of power loss to the site.

FEATURES

The MTU Onsite Energy system was chosen by the building's designers and constructors for its powerful, environmentally conscious and cost effective attributes.

With low fuel consumption rates, high capacity and renowned efficiency, the system will deliver optimal economical operation and a long service life.

MTU Onsite Energy gas fuelled power systems are the first choice for environmentally conscious developments. Advanced technology contributes to Green Star ratings without comprising on durability or effectiveness.

SPECIFICATION

Model: MTU Onsite Energy GR 1166 N5 – natural gas

Total output: 1,457 kVA

Applications: Emergency power, continuous operation, peak loads

For more information contact our Power Generation team on 1300 688 338.