

# Queen Elizabeth II Medical Centre, Western Australia

**CUSTOMER**

Nilsen (WA) Pty Ltd

**LOCATION**

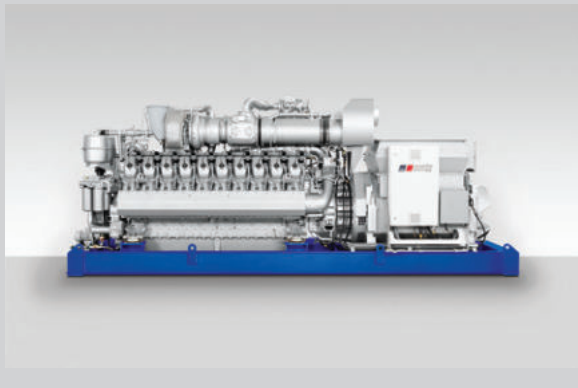
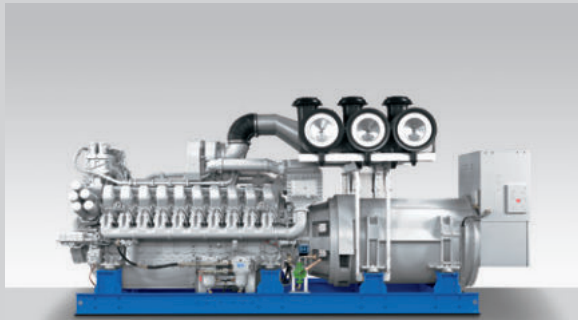
Perth, Western Australia

**DESCRIPTION**

Penske Power Systems supplied five diesel generator sets and a natural gas trigeneration plant to the Queen Elizabeth II Medical Centre in Perth, Australia

**OPERATIONAL DATE**

2012



The southern hemisphere's largest medical centre, the Queen Elizabeth II Medical Centre (QEIMC) in Perth comprises 28 hectare.

Encompassing 40 different organisations, the QEIMC is recognised around the world for its health care, education and research efforts.

Nilsen, a leading Australian electrical plant and service provider, was engaged to undertake electrical works, and in turn, Penske Power Systems was engaged by Nilsen to provide the mission-critical generator and trigeneration system scope of works.

**CONFIGURATION**

Penske Power Systems supplied and installed five diesel engines and a natural gas trigeneration plant at the medical centre.

Five MTU Onsite Energy 20V 4000 G23 diesel engines supply emergency power to the hospital with each producing 2.5 MW of power.

In addition to this, the MTU Onsite Energy trigeneration plant, which incorporates an absorption chiller, provides cooling, heating and power to the hospital.

This equipment forms part of the plant that powers the Queen Elizabeth II Medical Centre and its larger complex including the Sir Charles Gairdner Hospital and the New Perth Children's Hospital.

The MTU Onsite Energy 20V 4000 L63 gas trigeneration plant is expected to operate approximately 7,000 hours annually.

**FEATURES**

German engineered by leading manufacturer MTU, the series 4000 engine offers impressively low fuel consumption and long service intervals.

Featuring low emissions, low vibration properties, high stability and frequency, plus ease of maintenance, the series 4000 is ideal for the extreme conditions and continuous operation.

**MODEL SPECIFICATION**

5 x MTU Onsite Energy 20V 4000 G23 diesel engines for the emergency power supply

1 x MTU Onsite Energy 20V 4000 L63 gas trigeneration plant

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