



## Fact sheet – Wivenhoe Power Station

24 June 2008

**Location:** located on the eastern side of Wivenhoe Dam, about 90 kilometres north-west of Brisbane.

**Ownership:** Tarong Energy Corporation Pty Ltd.

**Size:** Rated - 500 megawatt power hydro-electric power plant. Maximum - 625 megawatts (2 Units)

**Development Cost:** \$1.2 billion

**Date Commissioned:** 1984

**Current Employment:** 12

### Other Details

#### Generation Capacity

Unit Speed	120 r.p.m.
Transmission Voltage	275 000 volts
Pump Capacity	207 cubic metres/second
Pump Impeller Diameter	7.95 metres
Length of Pump Drive Shaft	22 metres
Turbine Rating	260 megawatts
Diameter of Generator/Motor	12.5 metres
Mass of Rotating Parts Per Unit	1 450 tonnes
Volume of Concrete used in Structures	110 000 cubic metres

#### Station Dimensions

Lowest Foundation Level	elevation 2.0m
Total Height of Structure (To Roof)	95 metres
Length of Main Floor (Elevation 78 Metres)	110 metres
Width of Main Floor (Excluding Transformer Decks)	40.25 metres

#### Tunnels

Length	420 metres
Diameter as Excavated	11.5 to 7.6 metres
Diameter After Lining	8.5 to 6.8 metres

#### Splityard Control

Diameter After Lining	15 metres
Height of Structures	40 metres

#### Splityard Creek Dam

Full Supply Level (FSL)	elevation 166.5 m
Storage Capacity at FSL	28 700 megalitres
Embankment Crest Level	elevation 168 metres
Embankment Length	1 120 metres
Original Bed Level	elevation 98 metres
Height (Foundation To Cres)	76.5 metres
Width Of Crest	10 metres



Aerial view of Wivenhoe Power Station & Splityard Creek (right)



Water from Splityard Creek returns to Lake Wivenhoe



The control room at Wivenhoe Power Station