

Aberthaw

Coal Fired Power Station



Aberthaw is a coal-fired power station. The station began full operation in 1971 and is located to the west of Cardiff, in the Vale of Glamorgan, on the north bank of the Bristol Channel.

Aberthaw can generate around 1555MW of electricity for the National Grid System. This is enough power to meet the needs of some 1.5 million households – equivalent to the total population of five cities the size of Cardiff.

Aberthaw Power Station was designed to burn semi-anthracitic, low-volatile coal. A high percentage of this coal is locally sourced coal, mined in Wales and is transported to the power station by rail.

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A PROTOR1 system was first installed at Aberthaw in 1992. It has gone through various upgrades over the years.

In 2000 the system was upgraded to PROTOR3 and a single chassis monitored vibration signals for the three main steam turbines and generators.

In 2007 the system was partially upgraded to PROTOR4. The system was unitized with new PROTOR4 P4700 units installed for two units and the old PROTOR3 unit retained for one. A new P4700 unit was also installed to monitor the three Main Boiler Feed Pumps. Each system monitors a mixture of both shaft proximity and bearing vibration signals.

A rack-mount PROTOR server collects data from all units and provides the main user interface for real-time displays, alarm processing and interface to local data historian (OSI/PI).

Local users can access PROTOR through the station network and remote access is provided via VPN.

Prosig's commitment to support and continuous evolution means that PROTOR has been collecting data at Aberthaw for over 20 years. Data has remained compatible over a variety of platforms. Where possible systems are backwards compatible as shown by the current mixture of PROTOR3 and PROTOR4 hardware. The flexibility of the new PROTOR4 hardware means that the same hardware can be used in a variety of configuration such as monitoring a single steam turbine or multiple Main Boiler Feed Pumps.

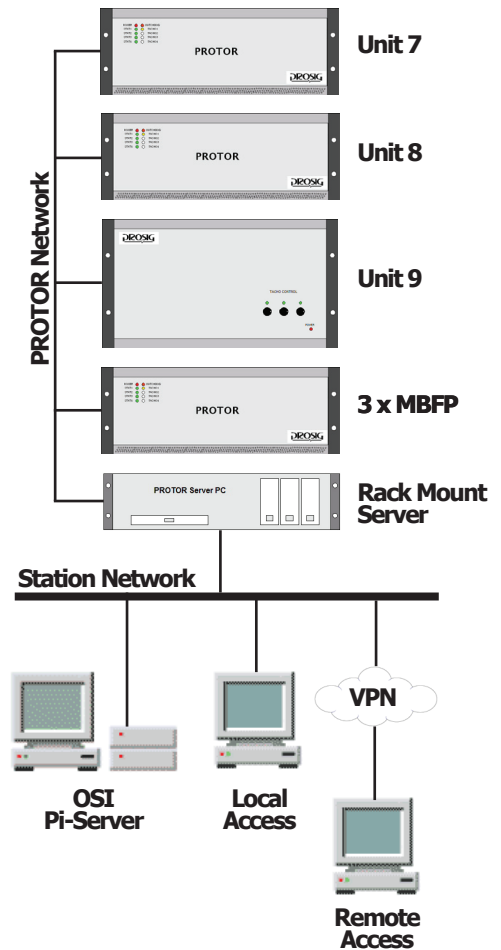
System consists of

Hardware

- 3 x PROTOR4 P4700 Units**
- 1 x PROTOR3 Unit**
- 1 x Rack Mount Server PC**
- Dual LAN Ports**
- RAID Disks**

PROTOR Software

- Local and Remote Access**
- OSI/PI Interface**



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