



# Loy Yang B power station

Loy Yang B power station is located in Victoria's Latrobe Valley, 160km east of Melbourne.

It is Victoria's newest and most efficient coal-fired power station generating around 953 MW - or about 17 per cent of Victoria's energy needs. It is supplied with brown coal from the adjacent Loy Yang open cut mine.

Loy Yang B is jointly owned by ENGIE (70 per cent) and Mitsui & Co Ltd (30 per cent). The partnership trades as IPM Operation and Maintenance.

The first of the power station's two units came on line in 1993, with the second unit commencing commercial operation in 1996.

Loy Yang B employs about 150 full time staff and another 40 contractors. It is responsible for several hundred more jobs in the service and supply industry throughout the Gippsland and Latrobe Valley regions.



In 1995, Loy Yang B was the world's first coal-fired power station to gain quality accreditation to ISO 9001 and the first Australian power station to gain environmental accreditation to ISO 14001.

Since 1997, Loy Yang B has enjoyed a significant partnership with Landcare. This partnership has resulted in the planting of more than 1.5 million native trees, shrubs and grasses throughout Gippsland in Victoria and in South Australia and Western Australia, and has led to a new national partnership in the form of the Landcare Environmental Detectives Program.

Among the partnership's many achievements has been the education of landowners on soil erosion, waterway management and habitat care for native animals.



## Loy Yang B technical specifications at a glance

### OWNERSHIP

IPM Operation and Maintenance is jointly owned by ENGIE (70%) and Mitsui & Co Ltd (30%).

### POWER STATION TYPE

Loy Yang B is a thermal brown coal-fired power station.

### OUTPUT

Loy Yang B power station comprises two generating units providing a nominal output of 953 MW.

### TURBINES

Two Hitachi turbo generators operate at 3,000rpm, generating 20,000 volts.

### BOILERS

Two ICAL/Transfield manufactured boilers stand 107 metres high.

### CHIMNEY STACKS

The 255-metre chimney stack is 23 metres wide at ground level with 670mm thick concrete walls.

### WATER SOURCE

Water for the thermal cooling process is provided by the purpose-built Blue Rock Dam, and supplemented by Lake Narracan and artesian water from the Loy Yang mine.

### COOLING TOWERS

Loy Yang B uses two giant natural draught cooling towers to circulate and cool 10,000 litres of water per second for re-use in the power station's thermal water cycle. They stand nearly 110 metres high and have a diameter of 94 metres at the base and 43 metres at the top.

### FUEL SOURCE

Loy Yang B power station uses lignite or brown coal sourced via contract from the adjacent Loy Yang brown coal mine. It is delivered to the power station via an extensive network of conveyors and storage bunkers.

### PRODUCTION

Loy Yang B produces up to 17 per cent of Victoria's energy needs with an annual output of around 8,000 GWh.

