

Callide Power Station

Location	Biloela, Central Queensland
Capacity	1,510 MW
Fuel	Black coal
Employees	Approximately 205 employees
Configuration	<p>Callide A (120 MW), being decommissioned</p> <p>Callide B (700 MW)</p> <p>Callide C (810 MW), owned in a 50 per cent joint venture with InterGen</p>



CS Energy is a Queensland government owned corporation and a major wholesale provider of electricity in Australia. We employ almost 500 people and have a trading portfolio of 4,105 megawatts in the National Electricity Market (NEM).

CS Energy operates the 1,510 megawatt Callide Power Station near Biloela in Central Queensland, the 750 megawatt coal-fired Kogan Creek Power Station, near Chinchilla in South West Queensland, and the 570 megawatt pumped storage hydroelectric Wivenhoe Power Station, near Esk in South East Queensland. The Kogan Creek Mine also forms part of CS Energy's portfolio of assets.

Callide Power Station

Callide Power Station comprises three power stations – Callide A, Callide B and Callide C.

CS Energy owns Callide A and B power stations, and owns Callide C in a 50/50 joint venture with InterGen. Callide C features high efficiency super critical boiler technology.

Callide Oxyfuel Project

Callide A Power Station was the site of the Callide Oxyfuel Project, a world-leading low emission coal demonstration that achieved operational completion in March 2015.

Callide A was retrofitted with oxyfuel technology to demonstrate the application of carbon capture technology to an existing power station to generate electricity with low emissions. Callide A operated in oxyfuel combustion mode for more than 10,000 hours from 2012 – 2015 and is now being decommissioned.

The Callide Oxyfuel Project is a joint venture between CS Energy; ACA Low Emissions Technologies (ACALET); Glencore; Schlumberger Carbon Services; and Japanese participants, J-POWER, Mitsui & Co., Ltd., and IHI Corporation.

- 1 Callide Power Station
near Biloela in Central Queensland
- 2 Kogan Creek Power Station
near Chinchilla in South West Queensland
- 3 Wivenhoe Power Station
near Fernvale in South East Queensland



Environmental Management System

CS Energy manages the environmental impact of our activities through a comprehensive Environmental Management System (EMS) at each of our power stations.

The EMS assists us in monitoring environmental performance and integrates environmental management into daily operations, long term planning and quality management systems.

Water management

Water is a precious resource that is vital to generating electricity. The majority of water used at Callide comes from the Gladstone Area Water Board's Awoonga Dam and is piped to the Callide Dam to reduce evaporation.

Around 85 per cent of the water used at Callide is evaporated in the cooling towers. The remainder is recycled and used for dust suppression, ash transport and other process water, and finally evaporated in on-site ponds. The station's environmental and chemistry teams carefully monitor water use and quality, and is evaluating water conservation opportunities.

Emissions

CS Energy reports its greenhouse emissions, energy consumption and energy production to the Australian Government under the National Greenhouse and Energy Reporting (NGER) Scheme. CS Energy's NGER data is published on the Clean Energy Regulator website at www.cleanenergyregulator.gov.au.

Under the National Pollutant Inventory, CS Energy reports on the oxides of nitrogen (NOx) and sulphur (SOx) that it emits from its power stations to the Department of the Environment. CS Energy's NOx and SOx data is available on the National Pollutant Inventory website at www.npi.gov.au.

Fly ash management

Fly ash is a by-product of the combusting coal in the power station's boiler. At Callide, more than 99.9 per cent of the fly ash produced is collected before the boiler exhaust gases are released in the chimney. The captured fly ash can then be recycled and used as a cement replacement in concrete, a soil improver, an adsorbent for oil waste removal, or as fill in large civil engineering projects such as highway embankments.

Careers

CS Energy employs almost 500 people across our power stations and Brisbane Office. For information about careers at CS Energy, visit our website at www.csenergy.com.au

