



# Mackay Gas Turbine

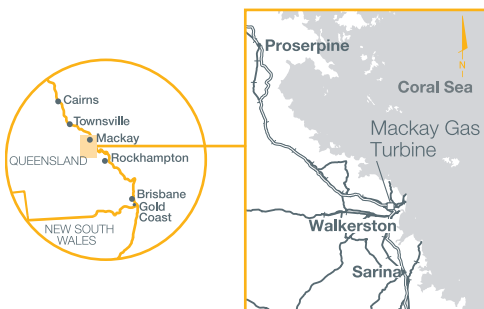
## about stanwell

Stanwell Corporation Limited (Stanwell) is a diversified energy company. We own coal, gas and water assets which we use to generate electricity for the National Electricity Market (NEM), we sell electricity directly to industry customers and we trade in gas and coal.

With a generation capacity of more than 4000 megawatts, Stanwell is the largest electricity generator in Queensland. The business is able to help supply Queensland's energy needs through coal, gas and hydro-electric generation at seven geographically dispersed sites.

## statistics

Capacity	34 MW
Powered equivalent	340,000 light bulbs
Commissioned	1975



## About the power station

The Mackay Gas Turbine, in the city of Mackay, is an on-demand remote controlled power generator operated for short periods when customer demand for electricity is high.

The Mackay Gas Turbine uses open cycle turbine technology with two Rolls Royce Olympus jet engines.

Commissioned in 1975 and recently refurbished, the gas turbine's ability to start quickly and send electricity into the grid is important in ensuring a secure, reliable power supply for distribution to customers.

## Environment

Several initiatives are in place at the Mackay Gas Turbine to minimise the impact on the environment, including the use of low-sulphur oil which minimises sulphur emissions.

## Fuel supply

The thermal gas turbine uses 352 litres of low-sulphur oil to generate one megawatt-hour of electricity, enough to power 100,000 x 100 watt light bulbs. Fuel is delivered to the site by tanker trucks and stored on site in two 400,000-litre tanks.

