

## Moranbah North Coal Mine Methane Power Station



Client	Capacity	Location	Operational
EDL	45MWe Installed Capacity	Moranbah, Queensland, Australia	November 2008

  

Engine Manufacturer	Installer / Packager	Quantity / Type	Primary fuel
GE Jenbacher	Clarke Energy Australia Pty Ltd	15 x 3MWe JGS 620 GS-S.L	Coal Mine Methane

### Scope Of Work

Clarke Energy designed and built the 45MW power station, which is adjacent to an Anglo Coal mine, on a turnkey basis for Energy Developments Limited.

Clarke Energy's scope of work was comprehensive, extending from gas filtration and conditioning through to delivery of power to the grid 2km away, and including liquid slug handling and safe disposal.

Gas conditioning is a most important part of a mines gas installation and this is an area Clarke Energy has unbeatable experience in, obtained from successfully completing many mines gas installations both in Australia and the UK. Moisture and dust need to be removed from the gas, and gas delivery from the mine to the engines needs to be accurately controlled taking into account the variable methane level from 50% to 90%.

The engines are installed in enclosures designed and built in Australia by Clarke Energy to suit the local high ambient temperatures of up to 45°C. Each engine has its own air conditioned control compartment.



**Distributor**  
GE Jenbacher gas engines