

# Case Study



## Thoresby Coal Mines Gas



Client	Capacity	Location	Operational
UK Coal	2.8MWe	Thoresby Colliery, Nottinghamshire	2001

Manufacturer	Packager	Type	Primary fuel
GE Jenbacher	Clarke Energy Ltd, UK	2 x 1.4 MWe JGC 420 GS-S.L	Coal Mines Gas

### Site Description:

Collecting methane gas from coal mines to convert it into electricity for power generation was seen as a clear win win situation for UK Coal. As one of the early installations Thoresby Colliery has proven to be a success story that has led to further installations amounting to over 40MW of power generation. In 2005 the move towards utilising more coalmine gas by UK Coal group saved £2.5million, and prevented the equivalent of 616,000 tonnes of carbon dioxide from escaping into the atmosphere.

Thoresby Colliery is a working mine and operates 5 days a week. Although the quality of the methane can drop to as low as 30% the engines still continue to operate and generally run for a full 7-day week supplying the entire energy requirements of the site.

Clarke Energy's responsibilities across the site did not stop at the design and installation stage but, as with all UK Coal Jenbacher energy sites, the operation and maintenance of the engines are also covered under a long term agreement.



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