

## WHAT IS UNDERGROUND COAL GASIFICATION & WHAT IS IT USED FOR?

Underground Coal Gasification (UCG) is an alternative coal mining method operated remotely from the surface.

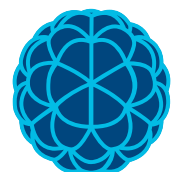
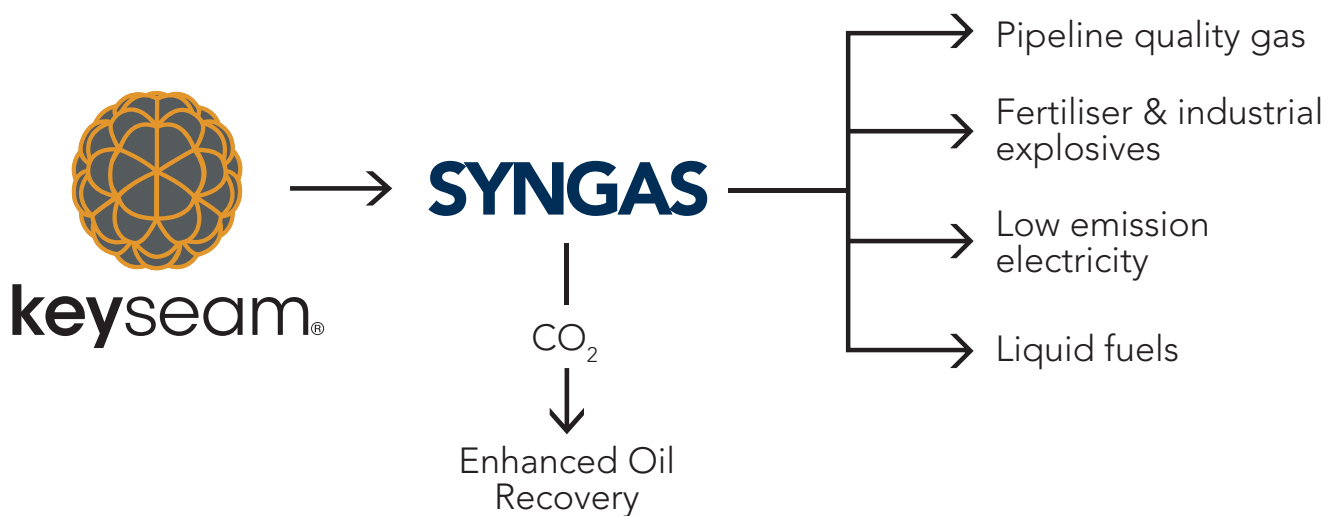
Coal is extracted by gasification rather than the mechanical excavation in conventional mining.

Gases such as oxygen, steam or air are injected down a borehole into a gasification panel in the coal; reactions convert the coal into a gas, and the UCG product gas, syngas, is extracted through a production well.

Only the coal is removed and any rock mixed with the coal (generally referred to as ash) is left underground.

UCG Syngas is cleaned on the surface and processed for its specific use. It is predominately made up of hydrogen, carbon monoxide and methane (natural gas) while carbon dioxide (CO<sub>2</sub>) is also present.

Carbon Energy produced UCG syngas can be supplied to the following downstream markets:



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resource. technology. markets.