



For immediate release

Arq granted US patent for breakthrough energy technology

Patent-protected process transforms coal waste into higher-value fuel products.

- Arq has developed a patented technology to produce microfine hydrocarbon from coal waste for blending into fuel oils and mixing with traditional coal products
- US patent for Arq Fuels™ granted 3rd October 2017
- Previous technologies for converting coal into liquid fuels proven economically unviable and environmentally damaging

(Tuesday 17th October 2017) Arq has received a US patent ([9777235](#)) for its breakthrough process to produce microfine hydrocarbon from coal waste.

Microfine hydrocarbon is a purified, high caloric-value solid energy source derived from coal fines. With particles not exceeding 10 microns in diameter (5 microns on average), containing less than 2% moisture and with ash content below 1%, it represents a novel approach to upgrading coal waste into higher-value oil and coal products.

Microfine hydrocarbon is conditioned to create Arq Fuels™, products suitable for blending directly into liquid fuel oils without the need for expensive liquefaction. An alternative finishing process, 'pelletizing', produces a solid hydrocarbon pellet for mixing with traditional coal fuels.

Previous methods for upgrading coal have proven to be economically unviable and environmentally damaging. Arq Technology™ is a largely mechanical process arising as a result of innovative technology transfer from clay and precious metal mining industries, and food industries. It has low capital and operational expenditures.

Julian McIntyre, Founder & CEO of Arq said:

“A unit of energy generated from oil is currently valued at six times the value of the same unit produced by coal. Arq Technology™ presents an opportunity to upgrade coal into higher-value fuel products. The fact that we have been granted this patent speaks to the uniqueness and novelty of our approach, and helps secure Arq Fuels™ for the future.”



Notes to editor

For more information please contact Tom Tudor at tom.tudor@arq.com or +44 (0) 7738 573 111.

About Arq

Arq is a private technology-led energy firm, based in London. For more information see www.arq.com | 30A Brook Street, London W1K 5DJ