



Julian McIntyre presents investment opportunity valued at \$2 trillion per year at Mines & Technology London conference

- Arq Founder & CEO Julian McIntyre presents \$2 trillion per year investment opportunity at Mines & Technology London conference on 28th November 2017
- Arq Technology™ reclaims hydrocarbons from coal waste to produce Arq Fuels™, designed for blending with liquid fuel oils and mixing with traditional coals
- The market opportunity for Arq Fuels™ is estimated at \$2 trillion per year
- To date, Arq has raised over \$175 million. In its current round of fundraising, Arq is looking to raise a further \$50 million

London, 27 November 2017 Arq Group Ltd. (Arq) Founder & CEO Julian McIntyre introduces \$2 trillion per year investment opportunity in a spotlight presentation at Mines & Technology London conference, 28th November 2017.

Entech company Arq launched in October 2017. It's patented process (United States Patent & Trademark Office, Patent No. 9777235) transforms coal waste into high-value, low-cost fuels ready for today's market.

Julian McIntyre, Founder & CEO of Arq says:

“A unit of energy generated from oil is currently valued at six times the value of the same unit produced by coal. Arq Technology™ and Arq Fuels™ present an opportunity to upgrade coal into higher-value fuel products. We estimate that closing the difference in the value of a unit of energy produced between coal and oil is a market worth up to \$2 trillion a year.”

Arq Technology™ uses a highly efficient mechanical process to separate hydrocarbons from mineral matter, creating a product so fine it has the rheology of a liquid.

Arq's solution is radically different to previous attempts to convert coal into liquid fuels, which require massive capital and operational expenditures. Alternative methods of upgrading waste coal in the form of coal slurry fuels are unable to meet global fuel specifications.

The company's product (Arq Fuels™) is up to 99% pure and with particles predominantly less than 5 microns in size. Its primary application is for blending with liquid fuel oils, helping 'stretch the barrel' for global oil distributors. It has been shown to meet all relevant technical specifications for Stationary and Marine RFOs.

“Arq Technology™ is simple and cost-effective. It manufactures oil-equivalent products at less than \$10/barrel. Our product is fit-for-purpose for the market, and our process is commercially viable at scale.”

Arq Technology™ was developed by a team of around 30 scientists, led by Dr Paul Snaith, who was previously the global head of R&D at Shell. The business has been developed by Michael Treanor, who was the former CEO of Shell Coal. Arq's operations are run by Paul



Groves, who was an MD at Petrofac. Arq's financings are led by Richard Campbell-Breeden, who was vice-Chairman of Goldman Sachs in Asia.

Arq has already raised over \$175 million from industry investors and blue-chip funds. These include the likes of York Capital and Pincus Green, founder of Glencore. In its current round of fundraising, Arq is looking to raise a further \$50 million. [ends]

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About Arq Group Ltd.

At Arq, we're making better use of the world's resources.

Arq is neither a mining nor an oil company; we take nothing out of the earth. We are an entech company, applying innovative thinking to unlock purified, micro-fine hydrocarbon from coal discard.

We're transforming a huge environmental liability into a low-cost and abundant asset. Arq Fuels™ are a revolutionary source of energy for industry, power generation and transportation.

Arq. Energy unbound.

Julian McIntyre, Founder & CEO

Arq was founded by entrepreneur and investor Julian McIntyre, creator of Gateway Communications, a pan-African telecommunications business that was sold to Vodafone. In energy, Julian has acquired numerous coal, oil and gas properties. He has owned and operated coal mines throughout Appalachia, was the founder of a large natural gas operator in the Rocky Mountains, and founded Rift Petroleum, an African E&P company that was sold to Tower Resources plc.

Julian is also Founder of McIntyre Partners, a private investment company focused on long-term investments and acquisitions in the natural resources and infrastructure sectors.

Notes to editor

Arq is a private, technology-led energy firm based in London. For more information or to request an interview with Julian McIntyre or Richard Campbell-Breeden please contact Tom Tudor at tom.tudor@arq.com or [+44 \(0\) 7738 573 111](tel:+44207738573111).

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