

Arq Fuel™ – responsibly sourced energy, providing a low-cost bridge to a cleaner future

Sustainable global energy production from renewable sources is still decades away.

As energy demand increases, we need to make smarter use of our finite resources today. Close to one billion tons of coal are discarded worldwide every year – a serious environmental danger and a huge waste of energy.

Arq is an energy technology company that recycles and transforms coal and coal waste into Arq Fuel™, an entirely new source of cleaner, high-value energy. With a range of proven applications for energy and industry, our R&D team continues to explore future uses for its microfine material.

Arq recognizes that the long-term health of our business is directly connected to the health of the planet and local communities. We remain focused on creating products and technologies that will help to lessen our environmental footprint.

PROCESS

Lower lifecycle GHG emissions profile

An estimated 15-20% of lifecycle emissions are created during exploration. As a technology company – not an exploration company – Arq's feedstock material is already above ground. Combined with a largely mechanical production process, our lifecycle emissions are significantly reduced, compared with other fuels.

Tackling a globally recognized problem

Using existing coal waste as a feedstock, our process provides an improved form of tailings management that supports the UN Environment Program's call for action¹.

PRODUCT

Low-level SOX/NOX profiles with reduced GHG emissions

Over 99% pure hydrocarbon. During extensive combustion testing Arq Fuel™ has shown a significantly lower emissions profile than traditional oil products – particularly sulfur. Its specification makes it a suitable blending component to help meet increasing regulatory demands across a range of industries, including IMO 2020 legislation.

Reduced reliance on oil

By substituting Arq Fuel for oil products, oil exploration and extraction is avoided, reducing CO₂ emissions by an estimated 15%. The oil extraction process also creates methane (CH₄) which is particularly harmful as a greenhouse gas.

COMMUNITY

Regeneration and reclamation of sites

Arq helps to transform current and former mine sites into land suitable for community initiatives with an increased biodiversity and increased environmental benefits.

OUR COMMITMENT

As a company, Arq will always remain focused on:

- Safety and emergency preparedness to minimize any potential environmental impacts resulting from day-to-day operations
- Continual improvement process in our environmental management
- Compliance with all applicable environmental laws, regulations and policies at federal state and local levels
- Regular evaluation of environmental impacts of our operations, products and facilities
- Minimizing impacts to properties and restoring those affected by our operations
- Integration of environmental responsibilities and considerations into daily operations and business decision-making processes
- Use of innovations and technologies to minimize atmospheric emissions and noise
- The promotion of safety awareness and environmental policies for everyone

¹ UNEP <https://www.grida.no/publications/383> <https://www.unenvironment.org/news-and-stories/story/new-report-urges-global-action-mining-pollution>