



Sustainable and low carbon solutions



The mining sector has a pivotal role to play in providing the critical minerals the world requires for our transition to a cleaner, greener future.

Clean growth and future mobility ambitions are driving the global demand and price for high technology metals. The World Bank predicts that production of minerals, such as graphite, lithium and cobalt, could increase by nearly 500% by 2050, to meet the growing demand for clean energy technologies.

This increased demand is driving UK innovation.

The UK's supply chain supports clean growth and sustainable development of resources. Underpinned by UK mining corporates' world class capability in responsible mineral development and supporting strategies that create long term economic prosperity while protecting biodiversity, and the environment.

With 4 universities ranked in the global top 10 and specialist mining colleges, UK businesses have access to world-class engineering, minerals and materials research centres and can utilise some of the most advanced mining technology on the planet.

By partnering and working with British businesses, you can benefit from some of the most innovative and advanced technology in the industry. Enabling your business to run smarter and more efficient specialised engineering products and services that support a more sustainable world.

Learn more about UK mining innovation
for your business.

Contact us



Central Asia Metals Plc

Central Asia Metals Plc (CAML) is a copper producer with operations at Kounrad, Kazakhstan, and a zinc and lead producer at the Sasa mine in North Macedonia. CAML listed on London's AIM market in 2010 and began producing copper in 2012. Kounrad has since produced over 140,000 tonnes of cathode at cash costs that are amongst the lowest globally and production plans are in place to 2034. Kounrad produces copper by leaching the metal from the waste dumps of an open pit mine, formed from years of historic mining. This process is far less cost intensive than traditional mining, as there is no need to drill, blast or transport ore – the waste dump rocks can be leached in-situ. This allows Kounrad to produce copper cheaply and efficiently.

Innovation and Sustainability

The process used to produce copper is called Solvent Extraction and Electrowinning (SX-EW). CAML was the first company to use this process in Kazakhstan and it has now been adopted by larger mining companies in the region. SX-EW is a two-stage hydrometallurgical process that first extracts and upgrades acid-soluble copper from low-grade waste dumps, followed by extraction and upgrading of the leached copper solutions into an organic solvent mix containing a chemical that selectively reacts with and removes the copper. The copper is then extracted and plated as very high purity copper onto stainless steel cathode blanks using an electrolytic procedure (electrowinning). As part of CAML's commitment to sustainability, construction by Kounrad's engineering team of a 4.77MW unit Solar Power Plant has begun. This plant is expected to provide c.16-18% of Kounrad's electrical power needs and will reduce Kounrad's Scope 1 and 2 GHG emissions by c.10% versus their 2020 base year.



Weir Minerals

Weir Minerals is a global market leader providing trusted technology and services for mining operations in more than 60 countries around the world, helping to provide the essential resources needed by a growing world. Through a customer focused strategy and network of material and equipment R&D centres, Weir Minerals has developed a unique set of technologies, an unrivalled range of comminution (feeding, crushing, screening), classification, mine dewatering, process water and specialist slurry processing equipment, wear parts and materials for some of the most critical processes, maximising productivity of their customers' operations while minimising equipment total cost of ownership. Partnering with customers across Central Asia for the past 10 years with its Linatex®, Trio®, Warman®, Cavex®, SandMaster™, Enduron®, GEHO®, Lewis®, Isogate®, Delta Industrial™, Multiflo®, ESCO® and Motion Metrics® brands, Weir Minerals Kazakhstan now operates a new 3,300 square metres "Service Supercentre" in Almaty, Kazakhstan.

Howden

Howden, a Chart Industries Company, is a global leader in air and gas handling products, services and solutions. Howden specialises in engineering products and services that support a more sustainable world. Howden designs, builds, installs and services highly engineered fans, compressors, blowers, rotary heat exchangers and steam turbines. Its presence spans 35 countries, with headquarters in Glasgow, Scotland. With nearly 160 years' experience meeting our customers' mining ventilation needs it is little wonder that the world's major commodities producers trust Howden to design, build, install and commission engineered solutions that offer the user exceptional performance and dependability, even in the harshest operating conditions.

