



CRITICAL MINERALS ASSOCIATION

JULY 2022

UK GOV CRITICAL MINERALS STRATEGY RELEASED

CMA'S 2ND ESG PAPER - BREAKING DOWN BARRIERS
FOR RESPONSIBLE SOURCING OF CRITICAL MINERALS

APPG CRITICAL MINERALS PARLIAMENT EVENT

S&P GLOBAL REPORTS ON THE CRITICAL MINERALS
ASSOCIATION'S ESG PAPER



July 2022

Welcome to our July Critical Minerals Association monthly newsletter & updates on the critical minerals space.

Read on for:

- CMA's Environmental, Social, Governance ESG Paper 2022
- Critical Minerals Association APPG ESG Launch
- UK Government Critical Minerals Strategy
- Financing Critical Minerals Projects
- MINELCA: Minviro Product Launch Event
- MEI's Sustainable Minerals 2022: Critical Minerals Panel Session
- S&P Global Reports on the Critical Minerals Association's ESG Paper
- Private Equity Funds Emerging as Major Financiers for Critical Mineral Projects
- President Biden Takes Steps to Increase Mining of Minerals for Batteries
- Localized Refining Seen as Potential Hurdle in EU, UK Battery Value Chain
- The Future of Mining in Latin America: Critical Minerals and the Energy Transition
- \$300 Million Support For Australia's Mount Peake Critical Minerals Project
- US Says it is Concerned Critical Minerals Vulnerable to Manipulation
- The View From England: Time Called on Mining Graduates
- UK's First Magnet Refinery Given Financial Boost as Part of New Strategy
- Cornish Metals Kicks Off New Drill Campaign at South Crofty
- NOVONIX's Sustainable Synthetic Anode Material
- Cornish Lithium is Exploring Cream Producer's Land
- Mkango Resources Releases Feasibility Study for Songwe Hill Project, Malawi
- Less Common Metals Appoints New Joint Managing Director
- Circulor Awarded Prestigious B Corp™ Certification

Kirsty, Jeff & Olimpia

This month's newsletter has been put together by [Lily Dickson](#), MSc Mining Geology Student at Camborne School of Mines and, Becca Kirk, PhD student at Camborne School of Mines.

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Got a suggestion? Want to feature in next month's newsletter? Contact olimpia@criticalmineral.org

Want to learn more? Check out our [website](#) & follow us on:



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CMA Releases ESG Paper, Breaking Down Barriers



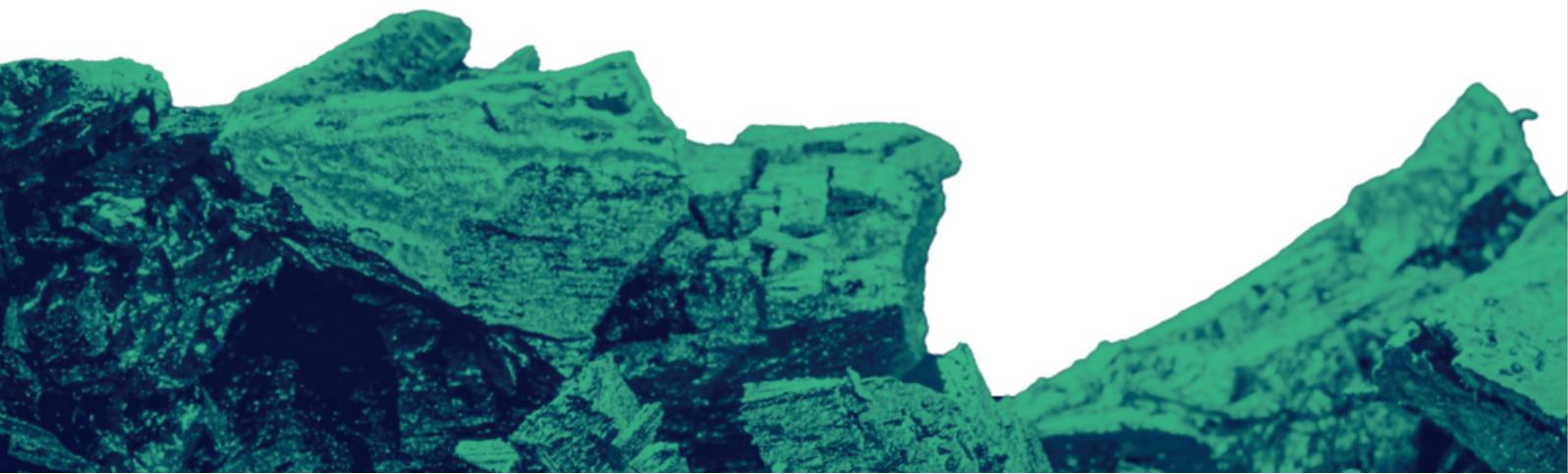
CMA is pleased to announce the publication of its 2022 environmental, social and governance paper:

Building the UK's Green Economy: Breaking Down Barriers for Responsible Sourcing of Critical Minerals

The acknowledgement of the importance of critical minerals to fight climate change was non-existent at COP26. Global leaders did not address reports from the World Bank and International Energy Agency that a low-carbon future will not be possible without minerals.

The purpose of this paper is to delve into the challenges and opportunities for the UK to be a leader in responsible sourcing of critical minerals and to inform Government strategy. This paper showcases the barriers that Government can help to break down through the implementation of CMA policy recommendations, and seeks to support policymakers with the solutions needed to lead on ESG of critical minerals.

[READ THE PAPER HERE](#)





CMA ESG Paper Launch in UK Parliament



The APPG for Critical Minerals held an event to mark the release of the Critical Mineral Association's second ESG paper on 18th July 2022 in Parliament. The event was hosted by Cherilyn Mackrory MP, Truro and Falmouth and featured speakers from both the Critical Mineral Association and affiliated industry speakers.

The CMA was honoured to have Secretary of State for International Trade, Rt Hon Anne-Marie Trevelyan MP attend the event and give praise to both the paper and the APPG.

The evening aimed to promote and outline the newly launched ESG paper in an environment of collaboration between industry and government. This event was hugely successful, with over 50 attendees despite London's heatwave.

We would like to thank SRK Consulting, Fasken, Cornish Lithium, Pensana and Satarla!

[**READ MORE HERE**](#)





S&P Global Reports on the Critical Minerals Association's ESG Paper

UK 'Far Behind' in Critical Minerals Supply Chain, Urged to Take Action - By Anthony Barich

The critical minerals industry urged the U.K. government to take "urgent action" on myriad environmental, social and governance challenges so miners can better facilitate a green economy.

The Critical Minerals Association, which represents the U.K.'s critical minerals supply chain, released a blueprint in June 2021 on responsible sourcing of critical minerals to build the U.K.'s green industrial revolution. It pushes for government action on miners' challenges of access to capital, the talent pipeline, planning and permitting, and ESG standards.

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Critical Minerals Association Calls on UK Government to Facilitate Responsible Supply Chains - By Jacqueline Holman

The Critical Minerals Association called on the UK government to take urgent action to facilitate development of secure supply chains for responsibly sourced critical minerals, in its 'Breaking Down Barriers for Responsible Sourcing of Critical Minerals' report released July 18.

"We cannot build a green economy without responsibly sourced critical minerals," the CMA said, adding that without urgent action to secure supply, there could be serious implications for energy security, a just energy transition and the UK downstream industry's reliance on critical minerals.

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UK Government Critical Minerals Strategy



The UK Government has released its critical mineral strategy! Congratulations to the teams at UK Government Departments BEIS & DIT for this important milestone. The CMA looks forward to supporting the UK Government in delivering this strategy.

"Almost every part of modern daily life relies on minerals, often mined thousands of miles away. From our cars to mobile phones, wind turbines to medical devices, modern society is quite literally built on rocks. As technology evolves faster than ever, we become more and more reliant on a new cohort of minerals. We are moving to a world powered by critical minerals: we need lithium, cobalt and graphite to make batteries for electric cars; silicon and tin for our electronics; rare earth elements for electric cars and wind turbines."

- **The Rt Hon Kwasi Kwarteng**, Secretary of State for Business, Energy and Industrial Strategy

[READ THE STRATEGY HERE](#)





Financing Critical Minerals Projects

On 5th July, the Critical Minerals Association (CMA) hosted the 'Financing Critical Minerals Projects' event at The Geological Society of London.

We were delighted to be joined by fantastic speakers and panellists from Endeavour Financial, Tembo Capital Management, ARCH Emerging Markets Partners, Mayer Brown, Satarla, Digbee, and many more!

RECORDING & SUMMARY HERE





Private Equity Funds Emerging as Major Financiers for Critical Mineral Projects

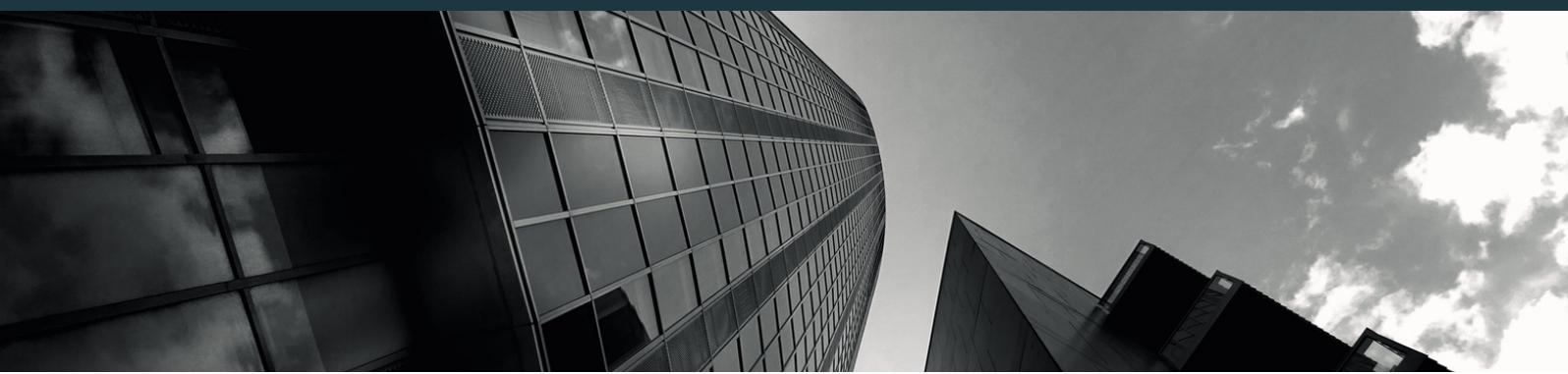
Private equity funds are emerging as a major financing source for new critical minerals projects, with traditional bank financiers taking a lesser role as risk perception grows, members of the UK's Critical Minerals Association said at an event in London, UK, in the week ended July 8.

Traders, streamers, off-takers and end-users who are anxious to secure supplies of critical minerals including lithium, cobalt, nickel, silicon, niobium, rare earths and graphite, are also coming to the fore as financiers. Governments in the future are expected to be more supportive as they build up their own lists and stockpiles of materials that are used increasingly for applications in energy transition, including in electric-vehicle batteries and wind towers as well as defense, participants at the event said.

Initiatives by the US, Canada, the EU and the UK to develop critical minerals infrastructure and supplies were highlighted at the event.

Article by Diana Kinch

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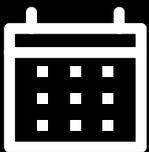




MINELCA: Minviro Product Launch Event

CMA's Kirsty Benham and Olimpia Pilch are delighted to be speaking at Minviro's MineLCA launch event.

Minviro recently launched their very own life cycle assessment software, MineLCA, for quantifying impacts in the raw materials sector. The launch event will showcase the tool and provide an opportunity for our small UK-based network to get to know each other!



11th August
18:00-21:00



Gallery @ The Tileyard
London

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LAUNCH EVENT **11.08.22**

MINELCA

A PRODUCT FROM MINVIRO



President Biden Takes Steps to Increase Mining of Minerals for Batteries



As the world scrambles to reduce greenhouse gas emissions and limit future global warming, more attention has turned to one of the country's oldest industries as one of the solutions - mining.

Today's conversation around mining is about the minerals and metals that power almost all electronics, especially the critical batteries in our laptops, smartphones, and electric vehicles.

As the need for forms of energy that rely on batteries and electric vehicles grows, the world will need more and more materials like lithium to make enough batteries to keep up.

Reed Blakemore, deputy director of the Atlantic Council Global Energy Center, said the clean energy technology that helps fight climate change rely on a lot of minerals, metals, and other raw materials.

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Localized Refining Seen as Potential Hurdle in EU, UK Battery Value Chain



There has been increased focus in Europe and the UK on building battery gigafactories and developing lithium supply, but refining capacity is an important step in the battery value chain that is often overlooked and could be a potential hurdle going forward.

As with battery metal supply, the majority, if not all, battery metal refining capacity is currently situated in Asia, China in particular, something that needs to change.

"Much of the focus and investment in Europe has been on battery cell capacity but the clear next step is to move upstream through the battery supply chain," Green Lithium Founding Director Richard Taylor told S&P Global Commodity Insights.

Ben Kilbey, chief communication officer at Britishvolt, agreed: "One of the biggest challenges to getting the right materials required for battery manufacturing is localized refining capacity."

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The Future of Mining in Latin America: Critical Minerals and the Energy Transition

Latin America holds considerable reserves of critical minerals, sometimes also referred to as *future-facing commodities*, which will be crucial to the global energy transition. What the development of these resources in Latin America will mean for governments and citizens is uncertain.

The global energy transition presents an opportunity that could translate into significant commodities windfalls. The end goal for governments is a well-regulated mining sector that increases public goods and spurs socioeconomic development with minimized social and environmental impacts. Transparency, accountability, and participation will be crucial to achieving this.

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US Says it is Concerned Critical Minerals are Vulnerable to Manipulation

US Energy Secretary Jennifer Granholm said the government is concerned that supplies of critical minerals, used widely in clean energy technology, could be subject to weaponization as oil and gas have been amid the Ukraine conflict.

“Our concern is that critical minerals could be as subject or vulnerable to manipulation as we’ve seen in other areas, or weaponisation,” Granholm said at the start of talks with Australia’s resources minister and executives from 14 mining companies at the Sydney Energy Forum.

“I think it’s healthy and from a national security perspective for both of our nations to diversify supply chains and make sure that these minerals are available to get to the ultimate goal of net zero,” she said.

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UK's First Magnet Refinery Given Financial Boost as Part of New Strategy

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A multi-million-pound investment in the UK's first-ever magnet materials refiner was launched (Friday 22 July 2022) – securing hundreds of jobs in East Yorkshire, and a strong foothold for Britain in the international market.

This comes as the government publishes the UK's first ever 'Critical Minerals Strategy' to bolster the resilience of supply chains and seize on the economic opportunities of growing industries, such as electric vehicle manufacturing and offshore wind.

Speaking at the official opening of Pensana's £145 million Saltend site today, Business Secretary Kwasi Kwarteng confirmed that the facility will be developed to process the critical minerals used in magnets, a key component for manufacturing electric vehicles (EVs). Pensana expects operations to begin at the end of 2023.

[READ ON HERE](#)



PENSANA Plc
LSE : PRE



\$300 Million Support For Australia's Mount Peake Critical Minerals Project

The Australian Government's export credit agency has given a conditional Letter of Support for the provision of up to \$300 million of debt funding for the construction of TNG's flagship Mount Peake vanadium-titanium-iron project in the Northern Territory.

Export Finance Australia is administering the Australian Government's \$2 billion Critical Minerals Facility, which has been established to assist in funding critical minerals projects.

Mount Peake is one of 15 Australian critical minerals projects identified by the Australian Government in its Resources Technology and Critical Minerals Processing: National Manufacturing Priority Road Map.

[READ ON HERE](#)





Critical Minerals News

The following July news articles from Argus Media, Mining Weekly, Mining Magazine, and others, provide an overview of critical mineral mining for:

- Cobalt
- Copper
- Graphite
- Lithium
- Manganese
- Nickel
- Rare Earth Elements
- Tin
- Titanium
- Tungsten
- Vanadium

The Critical Minerals Association takes no credit for any articles and makes no endorsement of any of the content.

Cobalt

- Africa

- DRC: CMOC [4.7.22]

- CMOC has announced that the KFM copper-cobalt mine in the Democratic Republic of Congo will start production in 1H23 and is expected to add 30,000tpy cobalt metal upon reaching full production.
 - <https://www.globalminingreview.com/mining/04072022/cmocs-kfm-copper-cobalt-mine-scheduled-to-start-production-in-1h23/>

- Central Africa: ERG [19.7.22]

- ERG release clean cobalt and copper performance report 2022.
 - <https://www.globalminingreview.com/mining/19072022/erg-releases-clean-cobalt-and-copper-performance-report-2022/>

- Europe

- UK [15.7.22]

- Cavers find 200 year old cobalt mine in England.
 - <https://www.miningmagazine.com/operational-excellence/news/1436010/cavers-find-200-year-old-cobalt-mine-in-england>

- Oceania

- Australia [18.7.22]

- Surging demand for cobalt spurs hunt for mineral in Australia's mine waste.
 - <https://www.globalminingreview.com/mining/04072022/cmocs-kfm-copper-cobalt-mine-scheduled-to-start-production-in-1h23/>

Copper

- Europe

- UK: Anglo Pacific Group [12.7.22]

- US\$185 million copper and nickel royalty portfolio acquisition from South32 reinforcing the position of leading global royalty and streaming company for future-facing commodities.
 - <https://www.anglopacificgroup.com/us185-million-copper-and-nickel-royalty-portfolio-acquisition-from-south32/>

- North America

- Canada: Solaris Resources [11.7.22]

- Solaris Resources Reports from 230m of drilling 1.02% copper equivalent, within 472 m of 0.76% Copper equivalent from Surface, Expanding Northeast Extension of 'Indicative Starter Pit'.
 - <https://www.juniorminingnetwork.com/junior-miner-news/press-releases/2819-tsx/sls/125107-solaris-reports-230m-of-1-02-cueq-within-472m-of-0-76-cueq-from-surface-expanding-northeast-extension-of-indicative-starter-pit.html>

- Canada: Teck Resources and PolyMet Mining [20.07.22]

- Toronto-listed Teck Resources Limited and PolyMet Mining Corp have signed a Glencore-backed joint venture to advance PolyMet's NorthMet project and Teck's Mesaba mineral deposit in Minnesota.
 - <https://www.mining-journal.com/gold-and-silver-news/news/1436284/teck-in-copper-nickel-jv-with-glencore-backed-polymet>

Copper

- North America

- USA: Liebherr and Immersive Technologies [21.7.22]
 - With 16 years of delivering Liebherr advanced equipment simulators for mining customers, Immersive Technologies and Liebherr have chosen to renew their technical information agreement for a further five years (20 years in total).
 - <https://www.miningweekly.com/article/liebherr-and-immersive-technologies-renew-agreement-2022-07-21>

- South America

- Chile: Amerigo Resources [12.7.22]
 - Chile copper miner Amerigo cash costs up 11% to \$2.01/lb in the second quarter year-on-year.
 - <https://www.mining-journal.com/copper-news/news/1435789/chile-copper-miner-amerigo-cash-costs-up-11>
- Peru: Anglo American [12.7.22]
 - Anglo American's Quellaveco yields first copper concentrate.
 - <https://www.mining.com/anglo-americans-quellaveco-yields-first-copper-concentrate/>

Graphite

- Africa

- Namibia: Northern Graphite [11.7.22]

- Northern Graphite completes preliminary economic assessment on Namibian operation; forecasts restart by mid-2023, after closing its acquisition of Okanjande graphite deposit and Okorusu processing plant.
 - <https://www.northernminer.com/news/northern-graphite-completes-pea-on-namibian-operation-forecasts-restart-by-mid-2023/1003843756/>

- North America

- Canada: Nouveau Monde [6.7.22]

- Nouveau Monde Graphite issues results of feasibility study for its integrated ore-to-anode-material model projected to be North America's largest natural graphite operation.
 - <https://www.juniorminingnetwork.com/junior-miner-news/press-releases/1280-tsx-venture/nou/124375-nmg-issues-results-of-feasibility-study-for-its-integrated-ore-to-anode-material-model-projected-to-be-north-america-s-largest-natural-graphite-operation-with-attractive-economics.html>

- Canada: Graphano Energy [7.7.22]

- Graphano Energy intersects 6.34% graphite over 11.0 m near historic resource area at the LAB Graphite Project from its last hole.
 - <https://www.juniorminingnetwork.com/junior-miner-news/press-releases/3154-tsx-venture/gel/124433-graphano-intersects-6-34-graphite-over-11-0-metres-near-historic-resource-area-at-the-lab-graphite-project.html>

Lithium

- Africa

- Ghana: Atlantic Lithium [19.7.22]
 - Atlantic Lithium provides an exploration update.
 - <https://www.globalminingreview.com/exploration-development/19072022/atlantic-lithium-provides-exploration-update/>

- Europe

- Italy: Vulcan Energy and Enel Green Power [11.7.22]
 - Vulcan Energy and Enel Green Power to develop Zero Carbon Lithium project.
 - <https://www.globalminingreview.com/mining/11072022/vulcan-energy-and-enel-green-power-to-develop-zero-carbon-lithium-project/>
- Germany: Rock Tech [13.7.22]
 - Rock Tech Lithium signs framework agreement with a globally operating car producer based in Germany.
 - <https://batteriesnews.com/rock-tech-lithium-signs-framework-agreement-globally-operating-car-producer-based-germany/>

- North America

- USA: Lithium Americas[21.7.22]
 - Lithium Americas breaks ground on lithium test facility in Nevada.
 - <https://www.mining.com/lithium-americas-breaks-ground-on-lithium-test-facility-in-nevada/>

Lithium

- South America

- Argentina: Ganfeng Lithium[11.7.22]

- China's Ganfeng Lithium buys lithium mines in Argentina.
 - <https://www.ft.com/content/b71beaf3-b4fe-40d1-876b-e8d03bb9a5de>

- Argentina: Argentina Lithium and Energy Corp [21.7.22]

- Argentina Lithium Expands Salt Flat Holdings at Salar de Rincon.
 - <https://www.juniorminingnetwork.com/junior-miner-news/press-releases/2018-tsx-venture/lit/125172-argentina-lithium-expands-salt-flat-holdings-at-salar-de-rincon.html>

Manganese

- Asia

- Japan: Ritsumeikan University [8.7.22]

- Microwaves efficiently extract manganese and zinc from spent batteries.
 - <https://www.mining.com/microwaves-efficiently-extract-manganese-zinc-from-spent-batteries/>

- Europe

- Czech Republic: Euro Manganese [20.7.22]

- Euro Manganese joins Global Battery Alliance to help establish sustainable EV battery value chain.
 - <https://www.globenewswire.com/news-release/2022/07/19/2482330/0/en/Euro-Manganese-Joins-the-Global-Battery-Alliance.html>

- South America

- Brazil: Patium Beneficiamento de Minério [15.7.22]

- Brazil: Patium Beneficiamento de Minério and Vale are mining manganese in indigenous lands, says organization; main destination for the metal is Asia.
 - <https://www.business-humanrights.org/en/latest-news/brazil-patium-beneficiamento-de-min%C3%A9rio-and-vale-are-mining-manganese-in-indigenous-lands-says-organization-main-destination-for-the-metal-is-asia/>

Nickel

- North America

- Canada: Canada Nickel co. [7.7.22]

- Canada Nickel Company Inc. has announced an updated mineral resource estimate (MRE) for its 100% owned Crawford Nickel Sulphide Project near Timmins, Ontario.
 - <https://www.globalminingreview.com/exploration-development/07072022/canada-nickel-co-updates-crawford-mre/>

- Canada: Tartisan Nickel Corp [12.7.22]

- Tartisan Nickel Corp. Provides Positive Preliminary Economic Assessment For The Kenbridge Nickel Project, Kenora Mining District, Northwestern Ontario.
 - <https://www.mining.com/sponsored-content/tartisan-nickel-corp-provides-positive-preliminary-economic-assessment-for-the-kenbridge-nickel-project-kenora-mining-district-northwestern-ontario/>

- Oceania

- Australia: Panoramic Resources [20.7.22]

- Nickel miner panoramic resources has set a production target for 2023 at its Savannah project, in Western Australia, after achieving commercial production.
 - https://www.miningweekly.com/article/panoramic-sets-targets-for-savannah-2022-07-20/rep_id:3650

- South America

- Brazil: Piaui [4.7.22]

- Piaui produces first nickel from the company's standalone nickel laterite demonstration project in northeastern Brazil.
 - <https://www.miningmagazine.com/plant/news/1435302/piaui-produces-first-nickel>

Rare Earth Elements

- Europe

- UK [22.7.22]

- Government launches strategy to bolster supply of critical minerals with £150mn investment in Hull facility.
 - <https://www.ft.com/content/1ccd480b-4926-45ca-b70a-bd8ba3058d10>

- UK: BGS and University of Exeter [7.7.22]

- University of Exeter and the BGS have developed a new 3D geological model expected to help guide exploration of rare earth elements.
 - <https://www.mining.com/new-3d-geological-model-expected-to-help-guide-exploration-of-rare-earth-elements/>

- North America

- Canada: Imperial Mining [12.7.22]

- Imperial Mining increases scandium and rare earth recoveries on its Crater Lake development project, Quebec.
 - <https://www.juniorminingnetwork.com/junior-miner-news/press-releases/2496-tsx-venture/ipg/124687-imperial-mining-increases-scandium-and-rare-earth-recoveries-on-its-crater-lake-development-project-quebec.html>

- Canada: Commerce Resources [20.7.22]

- Commerce Resources commences summer drill program at the Ashram Rare Earth and Fluorspar Deposit.
 - <https://www.juniorminingnetwork.com/junior-miner-news/press-releases/766-tsx-venture/cce/125086-commerce-resources-corp-commences-summer-drill-program-at-the-ashram-rare-earth-and-fluorspar-deposit-2.html>

Tungsten

- Europe

- UK: Tungsten West [19.7.22]
 - Hemerdon mine could reopen in early 2023.
 - <https://www.bbc.co.uk/news/uk-england-devon-62230446>

- Oceania

- Australia: Venture Minerals [14.7.22]
 - Venture Minerals aims to develop tin and tungsten mine in Tasmania.
 - <https://www.miningnews.net/resourcestocks-company-profiles/resourcestocks/1435532/venture-minerals-aims-to-develop-tin-and-tungsten-mine-in-tasmania>.

- North America

- Canada: Almonty Industries [5.7.22]
 - Almonty Announces receipt of the fully executed utilization request for the first drawdown of the US\$75.1M facility.
 - <https://.businesswire.com/news/home/20220705005163/en/Almonty-Announces-Receipt-of-the-Fully-Executed-Utilization-Request-for-the-First-Drawdown-of-the-US75.1M-Facility>

- North America

- USA: Stallion Gold [19.7.22]
 - Stallion Gold continues to advance Horse Heaven Gold-Antimony-Tungsten Project in Idaho.
 - <https://www.juniorminingnetwork.com/junior-miner-news/press-releases/2599-tsx-venture/stud/125041-stallion-gold-continues-to-advance-horse-heaven-gold-antimony-tungsten-project-in-idaho.html>

Tin

- Global: First Tin [1.7.22]

- First Tin leverages conflict-free tin to match global demand.
- <https://www.miningnews.net/resourcestocks-company-profiles/resourcestocks/1435013/first-tin-leverages-conflict-free-tin-to-match-global-demand>

- Oceania

- Australia: TinOne Resources [7.7.22]

- TinOne Resources samples up to 4.9% tin at the Aberfoyle Project, Australia.
- <https://www.juniorminingnetwork.com/junior-miner-news/press-releases/3089-tsx-venture/torc/124476-tinone-samples-up-to-4-9-tin-at-the-aberfoyle-project-australia.html>

- South America

- Bolivia: Eloro [21.7.22]

- Eloro reports assay at Iska Iska silver-tin project ahead of first resource.
- <https://www.northernminer.com/fast-news/eloro-reports-best-ever-assay-at-iska-iska-silver-tin-project-ahead-of-first-resource/1003844222/>

Titanium

- Asia

- Japan: ZapBatt and Toshiba [19.7.22]

- ZapBatt partners with Toshiba to unlock lithium titanium oxide battery technology for micro-mobility.
 - <https://www.businesswire.com/news/home/20220719005488/en/ZapBatt-Partners-with-Toshiba-to-Unlock-Proven-Lithium-Titanium-Oxide-Battery-Technology-for-Micro-mobility>

- North America

- Canada and USA: Rio Tinto [19.7.22]

- Rio Tinto releases 2Q22 production results.
 - <https://www.globalminingreview.com/mining/19072022/rio-tinto-releases-2q22-production-results/>

- Canada: Marvel [21.7.22]

- Marvel initiates exploration at Gander North, Newfoundland.
 - <https://www.juniorminingnetwork.com/junior-miner-news/press-releases/2686-tsx-venture/marv/125227-marvel-initiates-exploration-at-gander-north-newfoundland-2.html>

- USA: Fodere Titanium [20.7.22]

- Fodere Titanium Limited announces construction of pilot plant and formation of North American Joint Venture, Fodere America.
 - <https://www.businesswire.com/news/home/20220720005068/en/Fodere-Titanium-Limited-Announces-Construction-of-Pilot-Plant-and-Formation-of-North-American-Joint-Venture-Fodere-America>

Vanadium

- Africa

- South Africa: Bushveld Minerals [20.7.22]

- Bushveld CEO discusses the use of vanadium redox flow batteries as a solution to South Africa's 5000MW energy storage needs.
 - <https://www.miningweekly.com/article/use-south-africas-5-000-mw-energy-storage-need-to-create-new-industry-bushveld-2022-07-20>

- Asia

- Saudi Arabia: Shell and AMG Recycling [11.7.22]

- Vanadium: plans to construct and operate a metals supercentre in Saudi Arabia.
 - <https://theprojectbluegroup.com/news-details/vanadium-plans-to-construct-and-operate-a-metals-supercentre-in-saudi-arabia>

- North America

- USA: Phenom Resources [7.7.22]

- Phenom Resources submits multiple grant applications for U.S. Federal Funding for the Carlin Vanadium Project.
 - <https://www.juniorminingnetwork.com/junior-miner-news/press-releases/1314-tsx-venture/phnm/124505-phenom-submits-multiple-grant-applications-for-u-s-federal-funding-for-the-carlin-vanadium-project.html>

- Oceania

- Australia: Technology Metals [14.7.22]

- Technology Metals Australia has launched a feasibility study for the production of vanadium electrolyte in Australia.
 - <https://www.miningweekly.com/article/technology-metals-weighs-vanadium-electrolyte-production-2022-07-14>



The View from England: Time Called on Mining Graduates

The U.K. is facing a crisis. No, not our mounting supply issues, soaring cost inflation or the sudden change in political leadership; rather, the plummeting numbers of drinking establishments and graduate mining engineers.

Although the decline in pubs is shocking, another report published recently is much more serious. The U.K. Mining Education Forum (UKMEF) notes that no one has enrolled in mining engineering or mineral processing undergraduate courses in the country for the past two years. This is since Exeter University 'paused' these courses at the U.K.'s last mining colleges, Camborne School of Mines (CSM), in September 2020. As recently as 1990, there were over 300 mining graduates every year from five U.K. mining schools.

UKMEF, which represents senior industry and professional organizations, notes that a modern, high-tech mining industry is essential as British industry shortens its supply chains and moves to a low-carbon economy. The Forum calls for education schemes to equip sufficient numbers of recruits to the industry with the skills to support a wide range of mining activities both in the U.K. and abroad.

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Cornish Lithium is Exploring Cream Producer's Land

Cornish Lithium, UK, will investigate sites owned by Cornish clotted cream maker Rodda's.

The miner will drill a research borehole in the Autumn to test the viability of a commercial scale geothermal lithium and heat project.

Rodda's intends to use the geothermal heat from the project to potentially decarbonise production at its creamery in Scorrier, near Redruth.

Cornish Lithium CEO Jeremy Wrathall says, 'A successful geothermal lithium and heat project in Cornwall will demonstrate the potential for creating a truly sustainable source of lithium to support the UK's growing battery industry whilst at the same time helping to decarbonise local businesses and provide them with a more sustainable future energy source.'

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Circular Awarded Prestigious B Corp™ Certification

Circular, has announced its certification as a B Corporation™ (B Corp).

The tech company has been certified by B Lab, the not-for-profit behind the B Corporation movement, for meeting rigorous social and environmental standards, which represent its commitment to goals outside of shareholder profit. The B Corp certification addresses the entirety of a business's operations and covers five key impact areas, including Governance, Workers, Community, Environment, and Customers.

The certification process requires applicants to reach a benchmark score of over 80 -- Circular scored 115.5 points out of 200, outperforming other B-Corps in the UK.

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Circular has also raised \$25 million (20 million GBP) in Series B funding. [Read more here.](#)





Mkango Resources Releases Feasibility Study for Songwe Hill Project, Malawi

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Mkango Resources Ltd unveiled a definitive feasibility study (DFS) for the Songwe Hill rare earths project in Malawi that indicates a US\$559mln post-tax net present value (NPV) and a 31.5% post-tax internal rate of return.

Songwe is one of the very few rare earths projects globally to have reached the DFS stage, the company said.

The DFS envisages a payback period of 2.5 years from full production (five years from start of capital expenditure) and post-tax life-of-operations nominal cash flow of US\$2.1bn.

The DFS is based on a conventional open pit mining operation, feeding mills, flotation and hydrometallurgy plants on site in Malawi to produce a mixed rare earth carbonate (MREC), with an operating life of 18 years.

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Cornish Metals Kicks Off New Drill Campaign at South Crofty

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Cornish Metals has started a fresh drilling program at its South Crofty tin-copper project in Cornwall, southwest England, as it moves closer to reopening the past producing mine.

The Canadian company, formerly known as Strongbow Explorations, said it will drill a minimum of 8,000 metres, collecting samples for metallurgical test work, which is part of an ongoing feasibility study.

“This drill programme allows us to accelerate the South Crofty feasibility study in advance of dewatering the mine and will provide key information for the mineral processing flowsheet,” chief executive officer Richard Williams said in the statement.

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CornishMetals



NOVONIX's Sustainable Synthetic Anode Material

NOVONIX Limited, a leading battery materials and technology company, is proud to announce that its GX-23 synthetic anode graphite Life Cycle Assessment (LCA) clearly demonstrated an approximate 60% decrease in global warming potential (GWP) relative to the conventional anode grade synthetic graphite produced from Inner Mongolia, China and an approximate 30% decrease in GWP when compared to the anode grade natural graphite in Heilongjiang Province, China. Both regions in China contain the largest operators and producers of synthetic and natural anode grade graphite in the world, accounting for 79% of worldwide production. These findings demonstrate the continued commitment by NOVONIX to be a leader in the battery sector's clean energy transformation.

"We are excited to release these results, as this assessment is one of many indicators of our priority to make NOVONIX a leader in sustainability and cleaner energy across the automotive and energy storage sectors," says Dr. Chris Burns, CEO and Co-founder of NOVONIX. "This LCA also helps to illuminate our continued path forward to further reduce the environmental footprint of ourselves and our customers, through the creation of the first US domestic supply chain of battery grade synthetic graphite."

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Less Common Metals Appoints New Joint Managing Director

Less Common Metals Ltd (LCM) announced that the management team is expanding as they welcome Albert Slot onboard.

Albert Slot, previously Director of Sales and Business Development at Arnold Magnetic Technologies will be working alongside Ian Higgins in a joint Managing Director role as LCM paves the way for a UK magnet plant.

Grant Smith, Chairman of LCM said: "Acquiring the right talent is the most important key to growth, especially in this crucial moment in time when countries are gearing up for the green revolution. The rare earth industry is constantly changing at a fast pace, and the decision to bring Albert on board will without a doubt help to propel LCM to accomplish its goals."

LCM was awarded funding on two occasions by Innovate UK on behalf of the Automotive Propulsion Centre to conduct a feasibility study to identify the requirements for a fully integrated supply chain for Rare Earth Permanent Magnet production in the UK.

Rare earth-based permanent magnets are the most powerful magnets commercially available and find use in many key applications such as electric vehicles, wind power, low energy pumps, and chemical couplings.

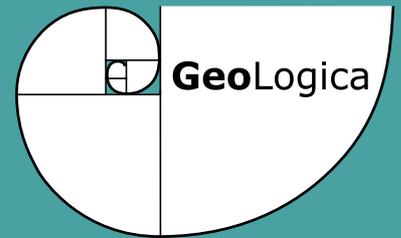




Upcoming GeoLogica ESG Course

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27 - 29 Sept 2022
14:00 - 17:30 BST
ONLINE



E538 Embedding Environmental Social Governance in Mineral Project Evaluation: a Guide for Geoscientists taught by Ben Lepley and Jane Joughin running on September 27-29 | More info [here](#).

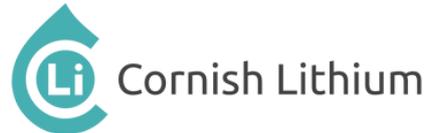
This course is designed for geoscientists in the mining industry to help navigate the environmental, social and governance (ESG) labyrinth and embed ESG good practice across all stages of mineral project evaluation from discovery to decommissioning and beyond.

CMA members receive a 10% discount. Please get in touch with one of the team for more info.





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