



# CRITICAL MINERALS ASSOCIATION

## JULY 2021

**CMA ESG PAPER LAUNCH: A BLUEPRINT FOR  
RESPONSIBLE SOURCING OF CRITICAL MINERALS  
REUTERS - RUNNING LOW ON BATTERY POWER:  
BREXIT BRITAIN FACES AN ACID TEST  
CMA: THE UK'S NEED FOR A MIDSTREAM INDUSTRY  
MINVIRO: CLIMATE IMPACT OF GRAPHITE  
WORLD'S 1ST FREEPORT RARE EARTH PROCESSING  
HUB**



# July 2021

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

Read on for:

- CMA ESG Paper Launch: A Blueprint for Responsible Sourcing of Critical Minerals
- CMA Highlights: UK's Need for a Midstream Industry
- Reuters: Running Low on Battery Power: Brexit Britain Faces an Acid Test
- Minviro: Climate Impact of Graphite Production
- Commencing Development of the World's First Freeport Rare Earth Processing Hub
- Georesources for Sustainability in Cornwall and the Isles of Scilly
- SRK: The European Green Deal and the EU Sustainable Finance Action Plan
- Roskill's Global Li-ion Battery Gigafactory Dataset
- CMA - This is Us: Aldo Pennini & Fiona Cessford
- ESG Good News Story Spotlight: Dalradian Community Support Tops £1 Million
- Critical Mineral News
- BBC: Will UK Mining Drive a Green Revolution?
- Cornish Metals: High Grade Copper - Tin - Silver Assays
- Cornish Lithium Partners with Source Certain
- Tungsten West: Integrated Management System
- Tyrone's Once-in a-Generation Opportunity
- Geosciences and the Energy Transition: Resources on a Finite Planet - 6-7 September '21
- IOM3 Sustainable Future Webinars - 7 Sept '21
- IChemE: Student Summit 2021

This month's newsletter has been put together by Olimpia Pilch, CMA's Business Development & Communications Associate!

Kirsty & Jeff

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*Got a suggestion? Want to feature in next month's newsletter? Contact [olimpia@criticalmineral.org](mailto:olimpia@criticalmineral.org)*

*Want to learn more? Check out our website: <https://www.criticalmineral.org/> & follow us on twitter @CMA\_Minerals*



# ESG Paper: A Blueprint for Responsible Sourcing of Critical Minerals

Enabling the UK's Green Industrial Revolution

## A Blueprint for Responsible Sourcing of Critical Minerals

Environmental, Social and Governance (ESG)

Monday 12th July 2021 marked a milestone achievement for the Critical Minerals Association and our members. We were delighted to launch our ESG Paper 'A Blueprint for Responsible Sourcing of Critical Minerals'.

The paper outlines challenges and opportunities for the UK to be a world leader in mining and sourcing of critical minerals responsibly.

**[READ THE PAPER HERE](#)**

"Aligning the UK with responsible sourcing practices will promote the growth of critical raw materials industries within the UK from mine to refinery, to end-use manufacturing in the electric vehicles, infrastructure, and communications technology of the upcoming low-carbon era."

**[READ ROSKILL ARTICLE HERE](#)**



# CMA Environmental, Social & Governance (ESG) Paper Launch

03

## A Blueprint for Responsible Sourcing of Critical Minerals

Our ESG Paper Launch Event is now available online. We present a number of recommendations for the UK Government to consider what measures it could take to ensure that critical minerals are sourced in a responsible way.

*"We cannot accept irresponsibility today, to build a better tomorrow." – Jeff Townsend, Co-founder, CMA*

## HIGHLIGHTS & RECORDING [HERE](#)



### ESG PAPER LAUNCH: A BLUEPRINT FOR RESPONSIBLE SOURCING OF CRITICAL MINERALS

- Aldo Pennini, CMA ESG Working Group Chair, Associate at Satarla
- Jeff Townsend, Co-founder of CMA
- Olympia Pilch, Business Development & Communications Associate at CMA
- Douglas Johnson-Poensgen, Co-founder of Circolor

**MON, 12 JUL @ 2PM BST**



# Highlights: UK's Need for a Midstream Industry

On the 29th June 2021, the Critical Minerals Association held its latest breakfast chat webinar, 'The UK's Need for a Midstream Industry,' with the discussion focussing on how the UK can position itself to be viewed as more competitive regionally.

There are numerous benefits to operating a midstream industry. If you operate in the primary sector, you must sell your product to companies in the midstream, whereas in the midstream, you can benefit from the highest level of value creation. A midstream industry can also provide the latest technologies, research and development for the nation as a whole, and benefit from serving the highest end customers.

## HIGHLIGHTS & RECORDING HERE



## THE UK'S NEED FOR A MIDSTREAM INDUSTRY

- Puruvi Poddar, Chief Corporate & Business Development, Tirupati Graphite
- Professor Allan Walton, Professor of Critical and Magnetic Materials, Co-Director of the Birmingham Centre for Strategic Elements and Critical Materials
- Dave OudeNijeweme, Head of Technology Trends, Advanced Propulsion Centre UK
- Ian Higgins, Managing Director, Less Common Metals

TUES, 29 JUNE @ 9AM BST



# Reuters: Running Low on Battery Power: Brexit Britain Faces an Acid Test

The article by Nick Carey and Barbara Lewis explores the challenges that will be faced by Britain's car industry.

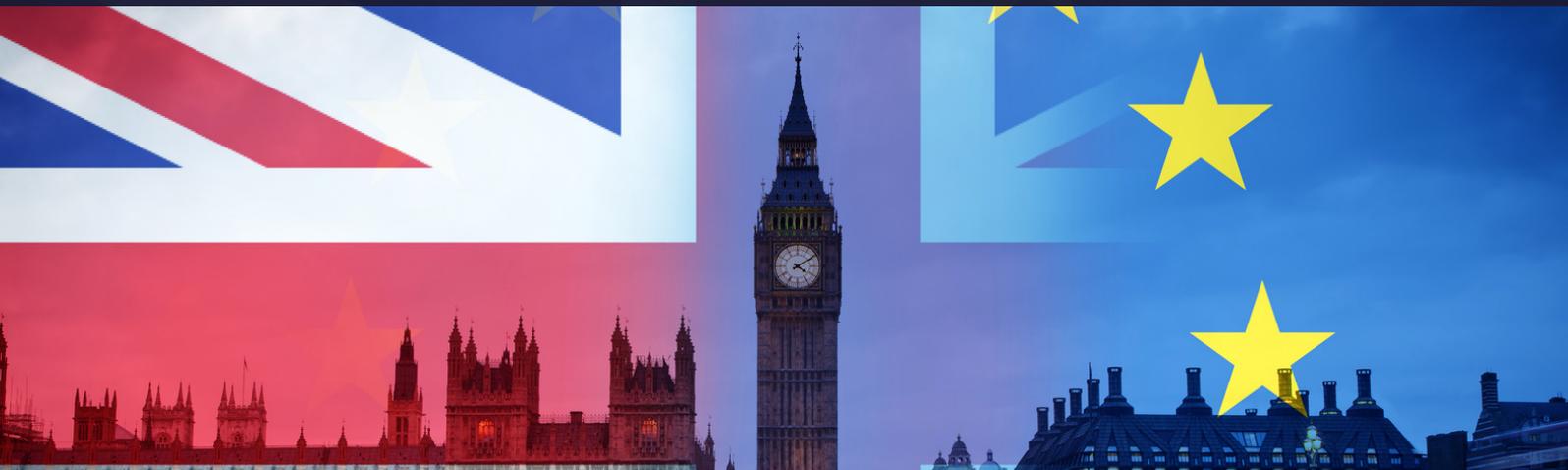
"Guy Winter, a partner at Fasken who has advised the government in the past, said Britain needed a "battery czar" to make sure the industry pulled together - a role played in the EU by European Commission Vice-President Maros Sefcovic since 2017."

"Winter said failure to provide enough support, whether in Britain or the EU, would hand the race to China, which makes about three quarters of the world's EV batteries."

"The Critical Minerals Association, an industry group, has called for a "central coordinating body".

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

FASKEN





# Minviro: Climate Impact of Graphite Production

Producing graphite materials that are suitable for lithium ion batteries is energy intensive. A new study by Minviro shows that the impact of producing battery-grade graphite can be as much as ten times higher than assumed values in internationally accepted databases and academic studies.

"The true climate change impact of producing battery-grade graphite can be as much as ten times higher than published values."

**[READ THE PAPER HERE](#)**



Global Warming Potential - Graphite Anode Material Production

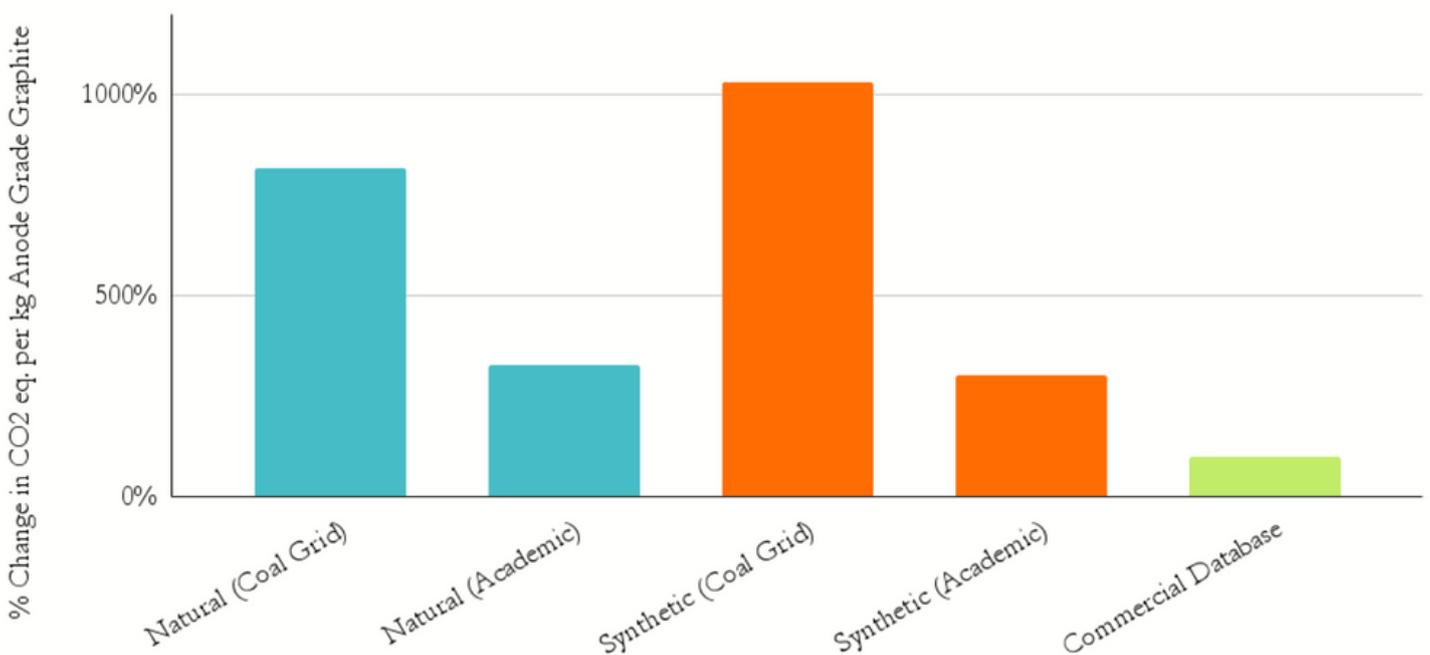


Figure 2. Percentage change in Global Warming Potential (GWP) for various battery-grade graphite LCA data points, normalised to a database value. Includes the two new calculations conducted for this study (natural and synthetic routes for coal-based grid mixes), natural academic data, synthetic academic data and a battery-grade graphite entry in a commercial LCA database.



# Commencing Development of the World's First Freeport Rare Earth Processing Hub

Pensana announced that following the recent £15 million premium equity raise, which was strongly supported by the Company's major shareholders, early stage development has commenced on the establishment of its rare earth processing hub at the Saltend Chemicals Park in Humber, UK.

"The Saltend plant would be the first major rare earth separation facility to be constructed in over a decade and the first to be located in a Freeport. The final tax and customs regimes for the Humber Freeport (one of Europe's busiest ports) are being finalised but are expected to take the form of an economic enterprise zone providing a combination of benefits, enabling the rapid development of the project and frictionless trade with European and international customers."

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

**PENSANA** Plc  
LSE : PRE





# Georesources for Sustainability in Cornwall and the Isles of Scilly

Satarla have produced a report on Georesources for Sustainability in Cornwall and the Isles of Scilly, commissioned by Tevi (University of Exeter).

The report outlines the contributions that Cornwall's rich and diverse range of georesources can make to sustainable development, addressing both local and global challenges, and is aimed at all those interested in delivering environmental growth and sustainable economic development in Cornwall.

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



**THE PAST, PRESENT & FUTURE OF MINING IN CORNWALL**



Minerals and metals have been fundamental to human societies for thousands of years, and their extraction in Cornwall dates back to antiquity. At its height, the Cornish mining sector provided some of the key resources that made the industrial revolution (see p 7), and this has left a complex and sometimes contested legacy.



# The European Green Deal and the EU Sustainable Finance Action Plan

SRK's Corporate Consultant, Jane Joughin, summarises 13 key points that miners need to know in light of the European Green Deal.

"There is a green revolution unfolding in the European Union (EU). The frameworks for this are the European Green Deal and the EU Sustainable Finance Action Plan. These will have implications for miners beyond EU borders, particularly miners with financial links to the EU or who export mineral products to the EU."

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

 **srk** consulting





# Roskill's Global Li-ion Battery Gigafactory Dataset

"On 1 July, Nissan officially confirmed Envision AESC would build its second UK Li-ion battery plant in Sunderland, with an initial investment of £450M (US\$622M). The plant is scheduled to have an initial annual capacity of 9GWh, and grow to 25GWh by 2030, with potential on-site for up to 35GWh. This is the 232nd plant in Roskill's Global Li-ion Battery Gigafactory Dataset, and the dataset now shows global Li-ion battery capacity in the development pipeline has exceeded 4,000 GWh.

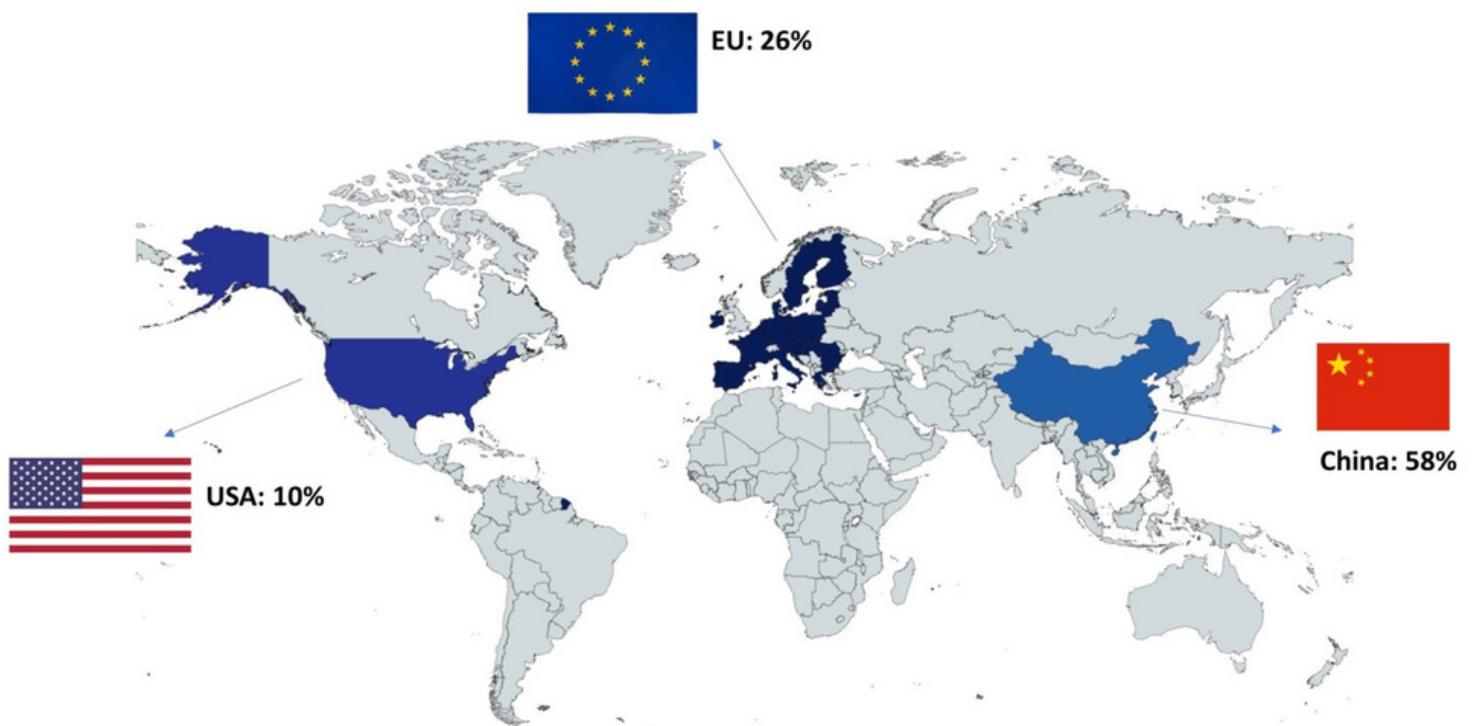
As the world shifts to electromobility and renewable energy, Li-ion batteries are becoming the enabling technology for the 21st century automotive and energy storage systems (ESS)."

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

**[@Roskill\\_Info](#)**



### Global Li-ion battery cell capacity planned for 2030





# This is Us: Fiona Cessford &

There are many fantastic people, working hard behind the scenes, involved in all aspects of CMA. Each month, we will be bringing new faces into the spotlight!

This month's spotlight goes to Fiona Cessford, Corporate Consultant at SRK Consulting and



## Fiona Cessford

BSc (Hons) Biology from University of Bristol, MSc Environmental Science with Legislation and Management from Brunel University, IOM3 Fellow

Corporate Consultant (Environmental, Social & Governance), SRK Consulting



# ESG Good News Story Spotlight

## DALRADIAN COMMUNITY SUPPORT TOPS £1 MILLION

**This money has supported more than 600 organisations**

Support from Dalradian for charities and community organisations in Tyrone and Fermanagh has passed the landmark £1 million figure. The company, which is developing an underground gold, silver and copper mine in County Tyrone, has been contributing to local organisations for the last 10 years.

Peter McKenna, Dalradian's Community Relations Manager, said:

"Yet again, the volume of applications received for the latest round of the Dalradian Community Fund has been very impressive.

"For many of these groups normal fund-raising activities haven't been possible due to COVID-19 restrictions. We are pleased that the Fund can help these groups in some small way.

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

**DALRADIAN**  
**GOLD**



# Critical Minerals News

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

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

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

# Critical Minerals

- Europe

- UK: University of Oxford [4.7.21]

- Scientists at the University of Oxford are proposing the idea of sustainably extracting copper, gold, zinc, silver and lithium from brines trapped in porous rocks at depths of around 2 kilometres below dormant volcanoes.
    - <https://www.mining.com/mining-brines-from-dormant-volcanoes-could-provide-the-metals-needed-for-a-sustainable-future/>

- Ukraine [13.7.21]

- The European Union and Ukraine signed on Tuesday a memorandum of understanding covering critical raw materials and batteries as the 27-country bloc tries to diversify supplies following disruptions caused by the Covid-19 pandemic.
    - <https://www.miningweekly.com/article/eu-ukraine-sign-preliminary-deal-on-key-raw-materials-batteries-2021-07-13>

- Latin America

- Chile [5.7.21]

- Researchers at Germany's Karlsruhe Institute of Technology partnered with Chilean colleagues at the Centro de Excelencia en Geotermia de Los Andes and launched the BrineMine project with the goal of developing strategies and methods for extracting lithium, cesium, and even gold directly in geothermal power plants and, at the same time, obtain drinking water.
    - <https://www.mining.com/german-chilean-project-plans-to-extract-raw-materials-from-thermal-springs/>

# Electric Vehicles

- Global

- Volvo [1.7.21]

- Volvo announced upgraded plans for the future of vehicle electrification and provided more details on the recently announced partnership with battery producer Northvolt.
    - <https://roskill.com/news/lithium-ion-batteries-is-volvo-set-for-an-electric-vehicle-breakthrough-in-next-decade/>

- Europe

- UK: Britishvolt [15.7.21]

- Britishvolt, which is about to start building the U.K.'s first giant battery factory, is considering listing on the London Stock Exchange to help finance the £2.6 billion project that could be key to helping the nation reduce carbon emissions from transportation.
    - <https://www.mining.com/web/uk-electric-car-battery-startup-now-considering-london-listing/>

- UK: Royal Mail [19.7.21]

- Royal Mail has today announced a new plan to ensure that all its company cars will be electric by 2030.
    - <https://www.energylivenews.com/2021/07/19/postman-pat-goes-electric/>

- North America

- Canada [7.7.21]

- Canada's 100% zero-emission vehicles by 2035 target adds pressure to market outlook.
    - <https://roskill.com/news/lithium-ion-batteries-canadas-100-zero-emission-vehicles-by-2035-target-adds-pressure-to-market-outlook/>

- Global [14.7.21]

- ICMC: Life in mining-dependent countries has improved significantly in the 23 years leading up to 2018.
- <https://www.miningweekly.com/article/life-in-mining-dependent-countries-significantly-improved-icmm-2021-07-14>

- Africa

- DRC [15.7.21]

- UK prosecutors have told Swiss authorities they have proof of an alleged money-laundering ring spanning from Africa to Europe that paid almost \$380 million in cash bribes to authorities in DRC.
- <https://www.mining.com/web/u-k-fraud-unit-finds-alleged-bribe-network-behind-cobalt-hub/>

- Europe

- UK: LME [2.7.21]

- LME data - How are governance factors within nickel production reflected in nickel stockpile levels and prices?
- <https://roskill.com/news/nickel-sustainability-lme-data-how-are-governance-factors-within-nickel-production-reflected-in-nickel-stockpile-levels-and-prices/>

- Latin America

- Chile [8.7.21]

- A group backed by German car-making giants Daimler AG and Volkswagen AG has started a study into the environmental impact of lithium mining in Chile, the second-largest supplier of the key ingredient in rechargeable batteries.
- <https://www.mining.com/web/battery-chain-puts-lithiums-green-credentials-under-microscope/>

# Cobalt

- Africa

- DRC [12.7.21]

- The Democratic Republic of Congo is expected to start buying cobalt from artisanal miners within eight weeks as it aims to become the only legal buyer from miners in the informal sector.
    - <https://www.mining.com/web/congo-likely-to-start-artisanal-cobalt-buying-within-8-weeks/>

- South Africa [19.7.21]

- Civil unrest in South Africa, a key transit point for exports of cobalt feedstock from the Democratic Republic of Congo, has bolstered Chinese cobalt prices, driven by expectations of a shortage of cobalt feedstock supplies because of delayed imports.
    - <https://www.argusmedia.com/en/news/2235467-south-african-unrest-bolsters-chinese-cobalt-prices?backToResults=true&selectedMarket=Metals>

- North America

- Canada: First Cobalt [14.7.21]

- First Cobalt continues to advance work on recommissioning and expanding its cobalt refinery in the northern Ontario town named Cobalt.
    - <https://www.mining.com/first-cobalt-advancing-work-at-refinery-hydromet-plant/>

- Canada: First Cobalt [23.7.21]

- First Cobalt has reported that it successfully extracted nickel, cobalt, copper, manganese, lithium and graphite from a black mass product recovered from recycled batteries.
    - <https://www.miningmagazine.com/plant/news/1414477/first-cobalt-extracts-metals-from-black-mass>

# Copper

- Africa

- DRC: Ivanhoe Mines [20.7.21]

- DRC's Kamoakakula exports first copper concentrate.
    - <https://www.argusmedia.com/en/news/2235810-drcs-kamoakakula-exports-first-copper-concentrate?backToResults=true&selectedMarket=Metals>

- North America

- SA: Sandfire Resources [20.7.21]

- An investigation has found The Montana Department of Environmental Quality responsible for the failure to properly evaluate the impact new and untested mining techniques used in a proposed copper mine will have on the surrounding environment.
    - <https://miningglobal.com/smart-mining/montana-deq-failures-affects-copper-mines-future>

- Oceania

- Indonesia: Freeport-McMoRan [20.7.21]

- US-based mining firm Freeport-McMoRan has decided to build a copper smelter by itself in Indonesia.
    - <https://www.argusmedia.com/en/news/2235796-freeport-going-it-alone-on-indonesian-copper-smelter?backToResults=true&selectedMarket=Metals>

- Papua New Guinea: Rio Tinto [22.7.21]

- Rio Tinto will undergo an impact assessment at its Panguna copper mine following concerns of previous environmental and human rights issues.
    - <https://miningglobal.com/sustainability/rio-tinto-undergoes-panguna-mine-impact-assessment>

# Graphite

- Asia

- Japan: Tirupati Graphite [6.7.21]

- Tirupati Graphite signed a memorandum of understanding with Hanwa Co., a major Japanese global trading and investment company, to expand markets for its flake and speciality graphite products in the Far East.
    - <https://www.proactiveinvestors.co.uk/companies/news/954187/tirupati-graphite-signs-mou-with-japan-s-hanwa-to-expand-markets-for-its-graphite-products-in-the-far-east-954187.html>

- Europe

- Norway: Mineral Commodities [20.7.21]

- Mineral Commodities is seeing strong potential for continuation of high-grade graphite mineralisation down-dip of historical resources at its Traelen graphite operation in Norway, with spectacular results reported from ongoing resource drilling including up to 44.5 per cent total graphitic carbon from 81m in one hole.
    - <https://thewest.com.au/business/public-companies/mineral-commodities-confirms-graphite-resource-growth-potential-c-3458172>

- UK: Ceylon Graphite [19.7.21]

- Ceylon Graphite Corp announced the incorporation of its wholly-owned subsidiary, Ceylon Graphite Technologies LTD, in the United Kingdom.
    - <https://finance.yahoo.com/news/ceylon-graphite-announces-incorporation-united-111500833.html>

# Lithium

- Europe

- UK: LME [14.7.21]

- LME launched lithium hydroxide futures contract on 19th July 2021.
    - <https://roskill.com/news/lithium-lme-launches-lithium-hydroxide-futures-contract/>

- UK: Green Lithium [19.7.21]

- Green Lithium announced the successful production of its first battery-grade lithium hydroxide product. This will enable Green Lithium to support the manufacture of batteries for more than a million electric vehicles a year from its refinery, the UK's first large-scale merchant lithium refinery.
    - <https://www.londonstockexchange.com/news-article/market-news/green-lithium-produce-first-battery-grade-lithium/15063250>

- Latin America

- Argentina: Ganfeng Lithium [6.7.21]

- China's Ganfeng Lithium's subsidiary has received approval to build a 20,000 tonnes per year lithium plant for its Mariana project in northern Argentina, where it intends to use solar power.
    - <https://www.mining.com/web/ganfeng-gets-green-light-for-argentina-lithium-plant/>

- North America

- USA: General Motors [9.7.21]

- General Motors announced that it would be investing in the Hell's Kitchen geothermal lithium brine project, located in the Salton Sea, in southern California. The project is aiming to produce a lithium hydroxide product via direct lithium extraction technology.
    - <https://roskill.com/news/lithium-sustainability-gm-invests-in-californian-geothermal-lithium-brine-project/>

# Manganese

- Africa

- South Africa [13.7.21]

- A manganese ore truck was set alight in Gqeberha in the Eastern Cape in apparent ongoing attacks on foreign nationals driving manganese ore trucks.
    - <https://www.miningweekly.com/article/manganese-ore-truck-torched-in-gqeberha-2021-07-13>

- Europe [19.7.21]

- European manganese flake prices are rising as fresh production cuts in China bolster a market already disrupted by months of shipping delays and higher freight rates.
  - <https://www.argusmedia.com/en/news/2235608-eu-mn-flake-prices-rise-on-china-output-cuts?backToResults=true&selectedMarket=Metals>

- Czech Republic: Euro Manganese [20.7.21]

- Euro Manganese's wholly owned subsidiary, Mangan Chvaletice, has been granted an extension of its Chvaletice Exploration Licenses to May 31, 2026.
    - <https://www.juniorminingnetwork.com/junior-miner-news/press-releases/2671-tsx-venture/emn/103512-euro-manganese-secures-extension-of-chvaletice-development-rights-to-2026.html>

- North America

- Canada: Manganese X [7.7.21]

- Manganese X Energy has released the first resource estimate for the company's wholly owned Battery Hill manganese project in southwestern New Brunswick.
    - <https://www.mining.com/manganese-x-energy-announces-mineral-resource-estimate-for-battery-hill-project/>

# Nickel

- Asia

- Russia: Nornickel [19.7.21]

- Russian producer Nornickel said energy efficiency improvements in operations have enabled it to create its first 5,000-ton batch of carbon-neutral nickel cathodes for delivery to Europe.
    - <https://www.miningmagazine.com/sustainability/news/1414138/nornickel-produces-first-carbon-neutral-nickel>

- North America

- Canada: Vale [29.6.21]

- Vale announced a C\$150 million investment to extend current nickel mining activities in Thompson, Manitoba by 10 years while aggressive exploration drilling of known orebodies holds the promise of mining well past 2040.
    - <https://im-mining.com/2021/06/29/vale-extend-thompson-nickel-mining-decade-c150-million-investment-including-major-ventilation-upgrade/>

- Oceania

- Australia: Panoramic Resources [13.7.21]

- Panoramic Resources has commenced underground mining at its Savannah mine in Western Australia.
    - <https://roskill.com/news/nickel-panoramic-starts-underground-mining-at-savannah/>

- Australia: BHP [22.7.21]

- Global miner BHP signed a nickel supply agreement with Tesla and will work with the electric carmaker on lowering carbon emissions in the battery supply chain.
    - <https://www.reuters.com/business/bhp-supply-nickel-tesla-australia-2021-07-21/>

# Tin

- Global

- Tin prices are surging to all-time highs, lifted by wagers that coronavirus disruptions in Southeast Asia will fuel shortages of the industrial metal.
- <https://www.wsj.com/articles/tin-prices-reach-records-as-delta-variant-disrupts-supply-11626986753>

- Europe

- UK: Cornish Tin [20.7.21]

- Cornish Tin, a Cornwall based mineral exploration company, has rights to explore for and extract all minerals and aggregates including tin, lithium, copper, tungsten, and geothermal energy at The Great Wheal Vor Project, near Breage.
- <https://www.falmouthpacket.co.uk/news/19456545.great-wheal-vor-project-breage-mining-consent/>

- Oceania

- Indonesia [13.7.21]

- Hundreds of Indonesian fishers protesting against an offshore tin mining operation in Sumatra have seized a dredging vessel they deemed to be operating within their fishing zone.
- <https://news.mongabay.com/2021/07/indonesian-fishers-seize-dredging-boat-in-protest-against-offshore-tin-mining/>

# Tungsten

- Africa

- DRC [23.7.21]

- Ambassador Mike Hammer met with Vice-Minister of Mines, Godard Motemona Gibolum, on July 12 to discuss U.S. government assistance to the mining sector and efforts to combat corruption
    - <https://cd.usembassy.gov/ambassador-hammer-announces-expanded-programs-stresses-good-governance-in-meeting-with-vice-minister-of-mines/>

- Europe

- Spain: W Resources [15.7.21]

- W Resources PLC reported its highest quarterly tungsten concentrate production to date at 106.4t from the La Parrilla mine in Spain in the second quarter.
    - <https://www.proactiveinvestors.co.uk/companies/news/955095/w-resources-posts-record-quarterly-tungsten-concentrate-production-955095.html>

- Oceania

- Tasmania: King Island Scheelite [26.7.21]

- King Island Scheelite has secured a \$70,000 exploration drilling grant incentive from the Tasmanian Government to assist in greenfields exploration at its licences surrounding the historic Dolphin tungsten project on the state's King Island.
    - <https://smallcaps.com.au/king-island-scheelite-government-funding-greenfields-exploration-dolphin-tungsten-project/>

# Rare Earth Elements

- Global [19.7.21]

- China frictions steer electric automakers away from rare earth magnets.
- <https://www.miningweekly.com/article/china-frictions-steer-electric-automakers-away-from-rare-earth-magnets-2021-07-19>

- Europe

- Estonia: Neo Performance Materials [7.7.21]

- US uranium producer Energy Fuels has sent an initial shipment of 20t of mixed rare earth carbonate to Canadian firm Neo Performance Materials' separation plant in Estonia, creating the first US to Europe rare earth supply chain in decades.
- <https://www.argusmedia.com/en/news/2232067-energy-fuels-starts-useu-rare-earth-shipments-to-neo?backToResults=true&selectedMarket=Metals>

- North America

- Canada: [6.7.21]

- Junior Vital Metals has produced its first rare earth product at its Nechalacho project, in Canada.
- <https://www.miningweekly.com/article/vital-starts-canadian-rare-earth-production-2021-07-06>

- Canada: Medallion Resources [20.7.21]

- Medallion Resources announced the completion of a Techno Economic Assessment for a facility extracting REEs from mineral sand monazite. The proposed facility will have a capacity of 7ktpy, producing 870tpy of Nd and Pr oxide contained within a cerium-depleted mixed RE carbonate product.
- <https://roskill.com/news/rare-earths-monazite-supply-chains-gather-momentum/>

# Vanadium

- Global [7.7.21]

- While the majority of current vanadium demand remains underwritten by the steel industry, as an additive to strengthen various grades of steel, a growing segment for vanadium demand is opening up for its use in vanadium redox flow batteries - large-scale, long-duration battery storage systems, which are aimed at supporting large, utility and commercial-scale renewable energy projects.
- <https://www.miningreview.com/energy/energy-storage-boom-drives-vanadium-use-in-long-duration-batteries/>

- Africa

- South Africa: Vanadium Resources [20.7.21]

- Vanadium Resources has delivered the maiden reserves estimate for its Steelpoortdrift project, just four weeks after outlining its development options.
- <https://www.mining-journal.com/energy-minerals-news/news/1414206/vr8-publishes-reserves-estimate-for-south-african-vanadium-project>

- Asia

- Kazakhstan: Vision Blue Resources [5.7.21]

- Sir Mick Davies' Vision Blue Resources is investing another US\$7M in Kazakhstan's Ferro-Alloy Resources in line with the subscription agreement announced last March.
- <https://roskill.com/news/vanadium-vision-blue-resources-to-add-us7m-in-kazakhstans-ferro-alloy-resources/>



# BBC: Will UK Mining Drive a Green Revolution?

"The irony of the green revolution is that we - at least for the medium to short term - need a supply of new metals mined out of the ground," says Prof Richard Herrington, head of earth sciences at London's Natural History Museum.

He believes an urgent conversation is needed to assess where and how these minerals are extracted.

"Ideally, we should work towards a circular economy where we just recycle the metals we use. But at this moment in time, we can't do that. It's just that the growth is too fast, it's too rapid.

"And to hit the target of net zero, we need those technologies now, so I think it's inevitable we will continue mining."

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





# Cornish Metals: High Grade Copper - Tin - Silver Assays

Cornish Metals reported the first batch of results from its current diamond drilling programme at the United Downs copper - tin project, Cornwall UK.

Richard Williams, CEO, stated “We are pleased with the initial results and observations from our drilling at United Downs, and pleasantly surprised with the silver content recorded. The high-grade nature of the tin and copper mineralisation is similar to what was mined here between 1700 - 1870 and, subject to proving continuity of mineralisation, has the potential to support delineation of a mineral resource. The confirmation of silver in the system adds to the potential for the are.

Furthermore, the United Downs project has numerous additional targets that we will be testing throughout the course of this year, including the downdip extension of the historic Mount Wellington Mine, which operated until 1978, and a further lode to the south of Mount Wellington, which was discovered in the 1970s but never followed up after the mine closed.”

Drill hole UD21\_001, drilled to a total depth of 260.24m, intersected two zones of high-grade mineralisation:

Drill Hole	From (m)	To (m)	Length (m)	Copper (%)	Tin (%)	Silver (g/t)
UD21_001	47.57	48.61	1.04	-	7.9%	-
UD21_001	227.1	229.7	2.61	5.2%	1.3%	77.0

[\*\*READ ON HERE\*\*](#)

**Cornish**Metals



# Cornish Lithium Partners with Source Certain

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"Australia's Source Certain International (SCI) has partnered with Cornish Lithium to develop technology that traces the origin of UK-mined lithium in lithium-ion batteries.

The trust mark technology was developed by SCI, an Australian scientific technology company that specialises in provenance verification technology.

SCI's technology can identify the origin of lithium within a battery, down to the specific mine site.

A statement from the Australian Trade and Investment Commission (Austrade) reported the development was inspired by a rise in consumers demanding responsible practices in their purchases.

"Cornish Lithium and SCI are hopeful their work will form a foundation for developing a transparent and accountable lithium supply chain for batteries in the UK." Austrade stated."

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





# Tungsten West: Integrated Management System

Tungsten West recently announced that the company has successfully attained integrated certification in ISO14001, ISO9001 and ISO45001 which is now incorporated under an integrated management system for the Hemerdon Minesite.

This builds on their success of initially obtaining the individual accreditation's last year, however being able to incorporate them within the IMS is an excellent result by the Tungsten West team.

The Hemerdon Project, located in south Devon, is scheduled to restart in 2022 and hit full production by the end of the year.

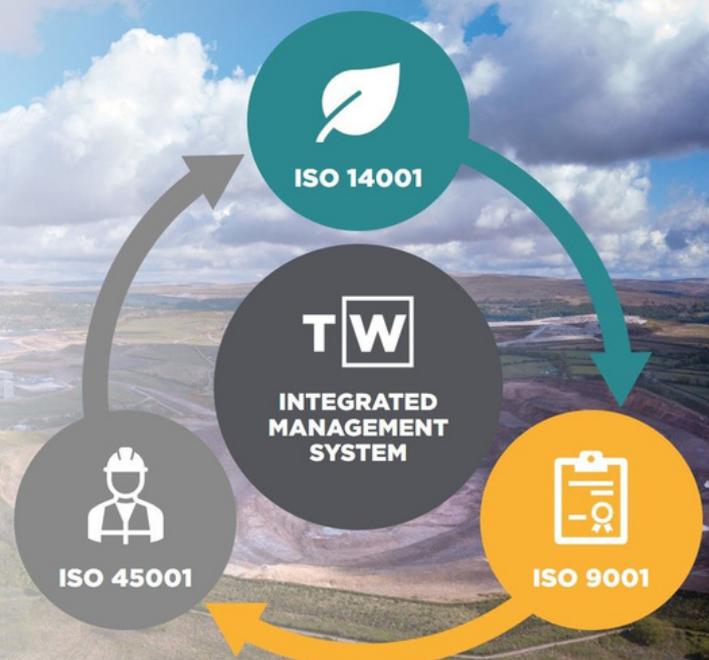
**[MORE ON THE PROJECT HERE](#)**

## TUNGSTEN WEST

IS PLEASED TO ANNOUNCE WE HAVE SUCCESSFULLY ATTAINED INTEGRATED CERTIFICATION IN:

- ISO 14001 ENVIRONMENTAL MANAGEMENT
- ISO 9001 QUALITY MANAGEMENT
- ISO 45001 HEALTH AND SAFETY MANAGEMENT

NOW INCORPORATED UNDER AN INTEGRATED MANAGEMENT SYSTEM





# Dalradian - Tyrone's Once-in-a-Generation Opportunity

"Peter McKenna, Dalradian's community relations manager, says the plans will bring widespread benefits to Tyrone.

"Our proposal for an underground gold, silver, and copper mine in Tyrone represents one of the largest private-sector investments ever proposed for the region. It will have major positive economic and social impacts, just when we need them most."

Similar projects – such as the Lisheen mine in Co Tipperary, and Tara Mines in Co Meath – have delivered enormous benefits to communities across Ireland. Cononish Mine in Tyndrum, Scotland, is also an excellent example. It operates in Loch Lomand and Trossachs National Park and employs people from the local community. Dalradian wants to recreate that success in Tyrone."

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

**DALRADIAN**  
GOLD



Site plan for proposed mine. Source: Dalradian.



# Geosciences and the Energy Transition

## Resources on a Finite Planet

## 6 - 7 Sept 2021 Virtual Conference



This September event is focused on the resources needed for future energy systems. Contributions are requested on the challenges, future technologies and advances in responsible recovery and stewardship of key resources (including strategic minerals, hydrocarbons, water and soil health) that will all underpin a successful energy transition. In addition, presentations linked to the investment, circular economies, public awareness and policy needs associated with the future use of earth resources, are all welcome.

The virtual meeting will run on the afternoon of the 6th Sept and the morning of the 7th Sept. Presentations will include an introduction and scene setting from Mike Daly (President of the Geological Society) and Julian Kettle, (Senior Vice President, Metals and Mining, Wood Mackenzie).

**[REGISTER  
HERE](#)**



The Geological Society

**ENERGY  
TRANSITION**



# IOM3 Sustainable Future Webinars

## Sustainable Futures Week Reaching Net-Zero | 6-10 Sept 2021

As part of its Sustainable Future theme to help build momentum ahead of COP26, IOM3 is hosting a week of virtual events across 6-10 September. This week will showcase the vital role of professionals in materials, minerals and mining in the transition to a low carbon, resource efficient society.

### The Role of the Extractive Industries

**7 Sept 2021**  
1pm - 2.15pm

**REGISTER [HERE](#)**

### The Role of Critical Minerals

**7 Sept 2021**  
4pm - 5pm BST

**REGISTER [HERE](#)**





# Kirsty Benham at IChemE: Student Summit 2021

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## Looking to the Future of Chemical Engineering... Challenges, Demand and Innovation



### Student Summit 2021

13 July-3 August 2021, Hybrid



Mining and  
Minerals

The summit will host seven face-to-face and online events, in seven locations (COVID-19 restrictions permitting).

Each event will highlight an industry that dominates that state or country with site tours, keynote speakers, panel sessions and networking opportunities.

On 27th July 2021, our Co-founder, Kirsty Benham gave a talk to students on critical minerals and mining.

Students - there is still time to register.

**REGISTER  
HERE**

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