

In brief...**FEB 14 -**

In June 2022, Jiayuan Era's 100,000 tpy high-end (4.5 micron to 6 micron) copper foil project started construction in Chengdong Town. At present, the two buildings of the first phase of the project have entered the main structure construction stage and are moving at full speed toward the goal of gradually putting into production in the second half of 2023.

www.antaik.com

JAN 19 -

Metso Outotec is opening new screening media production capacity in Irapuato, Mexico, whilst screening media operations in Warrenton, Missouri in the United States will be ramped down by the end of 2023. The new Mexico factory will be fully operational during Q3 2023, with total production capacity to double by 2024.

www.mogroup.com

MAR 5 -

The newly ratified UN High Seas Treaty aims to place 30% of the seas into protected areas by 2030. The UN Convention on the Law of the Sea signed in 1982 entrained only 1.2% protection. Fishing, shipping lanes and deep sea mining will be subject to strict (environmental) regulations to ensure sustainable and responsible practices.

www.bbc.co.uk

MAR 23 -

ALTA 2023 takes place real-world only from 1-5 May in Perth, Australia. Conferences include: Nickel-Cobalt-Copper (1 - 3 May); Gold-PM (4 May); and In-Situ Recovery (ISR) (5 May). The ALTA Series is organised on behalf of ALTA Metallurgical Services by Encanta Event Management. Around 40 exhibitors will also be on hand.

www.altamet.com.au

FEB 9 -

Metso Outotec is to expand its filter assembly plant in Suzhou, China, doubling local capacity to deliver high-quality filters for mining and industrial sectors, and making space for the assembly of flotation drive mechanisms and mill reline equipment. The extended production facility is expected reach full capacity during H1 2024.

www.mogroup.com

FEB 10 -

KGHM has signed a large contract with Nexans to supply copper cathodes in the years 2023-2027, comprising annual delivery of nearly 22.8 kt to over 27.8 kt of cathodes. The contract includes an Evergreen option for automatic five-year extensions. Both Nexans and the copper smelters/refineries of KGHM have joined the Copper Mark.

www.kghm.com

Hudbay climate change initiatives



Lalar mine, Snow Lake, Manitoba - hoist control room. Photo: Hudbay Minerals

DEC 12 - Hudbay Minerals announced a GHG emissions reduction plan including pursuing a 50% reduction in absolute Scope 1 and Scope 2 emissions from existing operations by 2030 (compared to 2021). Closure activities to safely decommission the

777 mine, the Flin Flon concentrator and the zinc plant were substantially completed in the third quarter. Hudbay's 2022 copper output was 104,173 tonnes including a 21 per cent rise in Peruvian output.

www.hudbayminerals.com

Cobre Panamá made to suspend ore processing

FEB 23 - First Quantum Minerals Ltd subsidiary Minera Panamá S.A. (MPSA) has suspended ore processing operations at the Cobre Panamá mine as a result of the Panamá Maritime Authority's refusal to permit copper concentrate loading operations at the mine's port, Punta Rincón, in accordance with its Resolution No. 007-2023, which requires evidence that the process of certification of the calibration of the load scales by an accredited company has been initiated.

The miner believes that all of AMP's requirements under the Resolution have been duly met and exceeded, however, the AMP has continued to block MPSA's export operations.

MPSA will begin a partial demobilisation of its workforce of over 8,000 employees and contractors, of which the impact is expected to increase significantly in the coming weeks if concentrate shipments do not resume. In addition to workforce reductions, the mine has ceased purchasing supplies and services that are equivalent to US\$20 million in weekly revenues to more than 2,000 Panamanian companies. Cobre Panamá

contributes to approximately 5 percent of Panamá's GDP, makes up 75 percent of the country's export of goods and has created at least 40,000 jobs, directly and indirectly, that supports an estimated 100,000 or more Panamanians.

MPSA is taking a systematic approach to reducing operations to ensure the safety of its workforce, prevent damage and degradation of equipment, and preserve the integrity of the mine. In the short term, certain planned maintenance work will be scheduled earlier where possible along with commissioning work on the CP100 Expansion and waste stripping in the mine. Essential safety and environmental work will continue, including care of the tailings management facility. Excess power generated by the power plant will be offered for dispatch to the national grid. Should permission from the AMP allow it, MPSA could begin shipping concentrate and resume operations at the mine within hours. Negotiations with the Government of Panamá on a refreshed Concession contract are continuing in the meantime.

www.first-quantum.com

NKT awarded record 525 kV cable orders

MAR 3 - NKT has been awarded three turnkey high-voltage power cable projects for the IJmuiden Ver and Nederwiek Offshore Wind Zones in the Netherlands. The TenneT projects total EUR 2 billion. NKT will design, produce, install and commission 1,700 km of 525 kV XLPE high-voltage direct current

(HVDC) covering both on- and offshore power cable systems for the project lots Beta, Gamma and Nederwiek 2 with total installed capacity of 6 GW. Production, using a partial amount of recycled metal, is scheduled to start between 2024-27

www.nkt.com

Large diameter cathode roll for foil

NOV 19 - According to Antaiko Copper & Copper Fabrication Monthly, the first 3.6 m diameter cathode roller and integrated foil making machine has been developed and manufactured by Taikin Electrochemical Technology Co., representing a complete set of equipment for high-end electrolytic copper foil. With the booming development of new energy lithium batteries and the demand for extremely thin copper foil, large diameter and large width electrolytic equipment has become the main way to improve the production efficiency of copper foil. The foil production efficiency of 3.6 m diameter cathode roller under the same conditions is about 36% and 22% higher than that of 2.7 m and 3.0 m diameter cathode roller respectively.

www.antaiko.com

Nerin at Copper 2022

DEC 27 - Mr. Wang Wei, China Nerin Chief Marketing and Operations Officer in Metallurgy, made a keynote speech on The Development of Cu Pyrometallurgy Technology in China on behalf of NFSoc (The Nonferrous Metals Society of China) and China Nerin. He mainly introduced the history of copper pyrometallurgy in China, as well as the innovation of copper smelting technology in China, and then looked ahead at the future development.

www.nerin.com



Mr. Wang Wei of China Nerin making his keynote speech

Rolled lead anodes



CAgroup Pty Ltd attended the Copper 2022 Conference & Exhibition held in Santiago in November. CAgroup met again with old friends, colleagues and customers after 3 years. It was an awesome opportunity to discuss new projects, technologies and trends around the Copper World. People from all around the world visited us in our booth and we certainly had interesting discussions. We presented them our latest breakthroughs and recent robotic upgrades. We were glad to hear from customers that our rolled lead anodes were performing so well with life expectancies higher than other anodes in the market.

www.caanodes.com