Mining Update 04/22



As we start into 2023, we set our goals for the year ahead

At ABB, we remain committed to overcoming the challenges facing the mining industry, while improving the world beyond it.

The global mining industry is undergoing one of the most significant transformations of our generation – and that is to become zero-carbon.

To answer this imperative, ABB developed eMine[™], a purposeful approach, method and integrated portfolio of electrification and automation systems designed to accelerate the decarbonization of the mining sector.

There must be a transformation. And ABB is committed to working with mines and industry players to bring about that transformation.



Top 12 learnings mined from a year of all-electric and zero-emission explorations

Top 12 learnings mined from 2022

ABB's experts share important insights from 12 months of fruitful learnings. Read the top learnings mined from a year of all-electric and zero-emission explorations.





Transition your mining hauling trucks from diesel to electric

At ABB, we are committed to helping our customers through their energy transition, converting existing mines from fossil fuel to all-electric with ABB eMine[™].

A key component of the eMine[™] portfolio is the Trolley System. We believe in the trolley technology, which has existed for decades and is now back as a key technology to transition mining hauling trucks from diesel to electric.

WATCH THE VIDEO



Interested in mining EV charging?

Have you always thought it impossible to have an electric operation powered by renewable energy in remote locations?

Check our ABB eMine[™] Grid-to-Wheel solution. Our electrified long-hauling process is a fully integrated infrastructure composed of on-premise solar generation, with an inverter and battery energy storage system and a charging station underpinned by our ABB Ability[™] digital ecosystem.



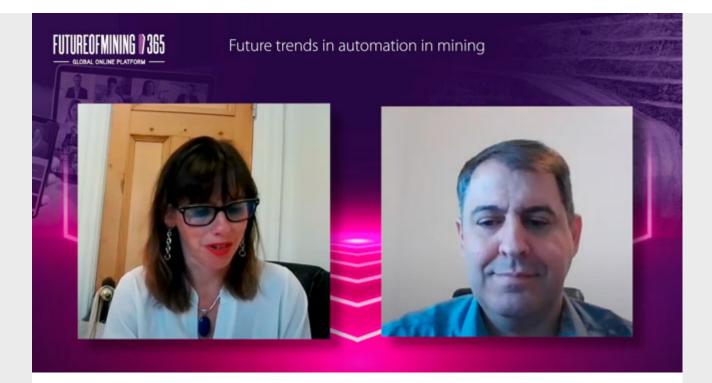


Analyst report on DCS confirms ABB global market leadership for 23rd consecutive year

ABB is once again setting the pace in DCS solutions, topping the chart for market share for the 23rd time running in ARC Advisory Group's latest report. The ARC Advisory Group market report covering the period 2021 shows that ABB's DCS has maintained a leading position in a market worth more than \$15 billion.

ABB continues to lead by enabling real-time insights, supporting the acceleration of digital transformation across the industry.

LEARN MORE ABOUT DCS IN MINE AUTOMATION



Future trends in automation in mining

Marcos Hillal, Global Product line manager Automation, ABB, recently signed an eBook called 'Journey to autonomous mining in 2022 and beyond' which is available here.

He recently spoke to Jax Jacobsen from Mining Magazine about the mining automation trends presented in the eBook.

WATCH THE FULL INTERVIEW

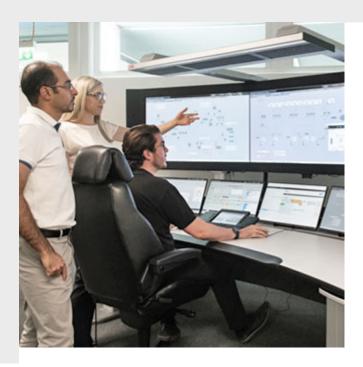


ABB provides power management system for BHP in Canada

Our ABB Ability[™] System 800xA Power Control Library will help BHP on its journey towards an automated, electrified and digitalized site where engineers can monitor and quickly troubleshoot disturbances. The system will cover the electrical substation equipment remotely, reducing the time taken for fault diagnosis and problem solving.

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ABB and Perenti agree to jointly explore solutions to help mining customers decarbonize operations

Together, we'll explore approaches to support net zero emissions targets for underground and open-pit mines to help mining companies make greater impact in the energy transition. Specifically, we hope to address electrification solutions in mine hauling operations, power distribution, energy efficiency and power management.

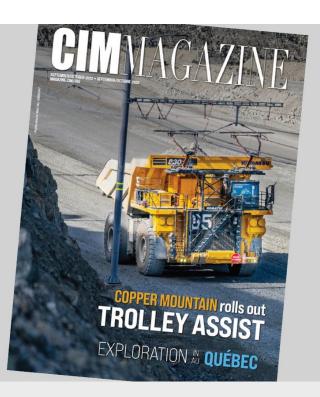
Mark Norwell, Managing Director and CEO, Perenti, commented: "ABB and Perenti share a vision to develop energy efficient solutions for the mining industry. By combining our experience across mining operations and digital solutions with ABB's leading technologies we are focused on supporting the decarbonization of mining through electrification. We look forward to working with ABB on this exciting new venture."



All in on eMine™ trolley system

CIM Magazine interviewed Gil Clausen, Copper Mountain's president and chief executive officer, and ABB's Sachin Jari and George Shahata to talk about how trolley assist will play a key role in helping Copper Mountain reach its ambitious goal of net-zero carbon emissions by 2035.

READ THE ARTICLE



Read the Expert

The progress to electrification is slow but inevitable and is set to transform asset and resource-heavy mining operations globally over the coming decades.



Mehrzad Ashnagaran Global product line manager mine electrification

INNOVATION IN ELECTRIFICATION Rectrification is the key enabler of the digital transition from emission heaver mines to decarbonised, sustainable operations, as Mehrzad Ashmagaran explained





ABB's Gearless Mill Drive Ring Motor factory in Bilbao

If you have a chance to visit our Ring Motor plant located in Bilbao, you'll understand what excellence means.

Building on over 130 years of experience in the mining industry, ABB's factory provides the engineering and manufacturing of ring motors, the main component of ABB's Gearless Mill Drive (GMD) systems.

ABB integrates all manufacturing processes, from design and engineering to after-sales services, under one roof. The extensive network of local suppliers and proximity to the port of Bilbao makes it a perfect location to guarantee the complex shipment of GMDs to the mines.





ABB named a Visionary in the 2022 Gartner® Magic Quadrant™

Gartner has recognized ABB as Visionary in the 2022 Gartner® Magic Quadrant[™] for Industrial IoT Platforms. The recognition is based on the Gartner evaluation of ABB Ability[™] Genix Industrial Analytics and AI Suite, as well as ABB's Completeness of Vision and Ability to Execute.

READ THE FULL REPORT



Better decisions for connected mining

Welcome to connected mining - ABB digital solutions help Gold Fields meet the challenge of mining in remote locations with an integrated digital infrastructure for safer, more reliable gold mining operations.

DISCOVER MORE

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