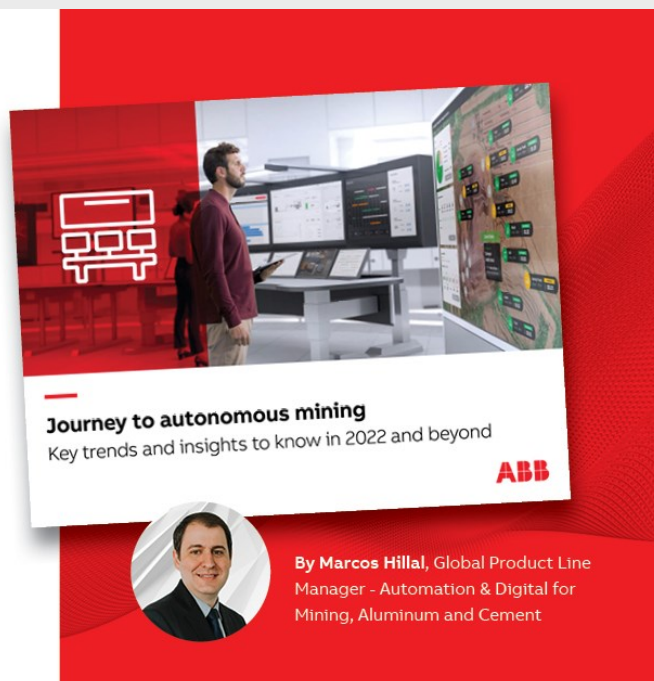


Mining Update 02/22

Gain valuable insight into automating your mining operations

[DOWNLOAD EBOOK](#)



eBook: Journey to autonomous mining in 2022 and beyond

Mining is undergoing a radical transformation driven primarily by two disruptive trends: digitalization and sustainability. Both are pushing the boundaries of what was once thought possible in the extractive industries, towards a different way of operating. Against this backdrop, automation and digitalization are not a luxury, it is a matter of survival. The journey to autonomous mining demands collaboration and ABB is here to be your partner.

What will you find inside the eBook?

- The main challenges when automating mines today
- Tips for setting the basis of modern plant operations
- Sharing data, remote connectivity and operation
- The key to make automation projects easier in mining
- Planning for an automation project
- Methods and solutions

DOWNLOAD THE EBOOK

our **experience** in mining
improves yours.

Are you satisfied with the reliability and flexibility of your hoist control system?

With over 130 years in the mining industry, we strongly believe that experience is only valuable when it is applied and shared.

That's why we have built ABB Ability™ NGX Hoist Control, an optimized and unified global hoist control system that gives you an improved user experience, improved reliability, higher levels of protection, and more flexibility than ever.

Our innovative control system is a standardized and scalable solution that can seamlessly adapt to any hoist, across your operations.

ADVANCE TO THE NEXT GENERATION



Technology is nothing without vision and context

Max Luedtke, ABB's global head of mining, explains how a coherent electrification strategy, coupled with investment in digital technologies, can help operators improve sustainability and create new business models.

[READ MAX'S INSIGHTS](#)



WINNER

ELECTRIFYING MINING

We're helping to solve one of the biggest challenges in mining today to decarbonise mining operations.

ABB

chargeoninnovation.com



BHP

RioTinto

VALE

eSTYME



ABB winner of the Charge On challenge with an eMine™ solution

We are thrilled and honored to be selected with one of the **eight winning ideas in the global Charge On Innovation Challenge** which has the objective to decarbonize mining. Under our eMine™ purposeful framework of methods and solutions we have designed a dual charging system solution.

This journey of partnership in action, research, development and testing will now progress beyond the Charge On Innovation Challenge.

[FIND OUT MORE ABOUT ABB eMine™](#)

You think big, we get practical

Digital transformation that's grounded in the real world

—
Let's talk

APM 4.0 as a driver of mining productivity

by Ben Berwick & Eduardo Ingegneri



Next-generation asset performance management as a driver of mining productivity

After a long-standing trend of declining productivity, the mining sector is gradually reversing the course - according to the new analysis by McKinsey. This is because miners are increasingly focusing on extending asset lifecycles, re-examining, and remodelling their processes with a strong focus on digital.

Ben Berwick, Global Portfolio Manager - Asset Performance Management, and **Eduardo Ingegneri**, Global Product Manager from ABB, explain how digitalization allows miners to generate more value from existing assets without incurring more labour costs.

READ INSIGHTS FROM ABB'S DIGITAL EXPERTS



ABB and Boliden mark 12-year service relationship, one of the longest in the mining industry

ABB is proud to mark a 12-year service relationship for Boliden's Aitik mine near Gällivare, Sweden, one of the longest in the mining industry. The teams met for a joint steering committee celebration of our long-term service agreement (LTSA) and a factory tour in Switzerland.

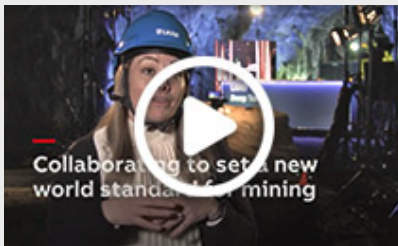
Mikael Burck, Head of Electric Division, Boliden Aitik, said: "ABB has collaborated with Boliden from the earliest days of the modern Aitik project and continues to help us on our journey to be in the first position in the world for the electric and connected mine. We can always rely on their services."

[LEARN MORE ABOUT THE SERVICE AGREEMENT](#)

Collaborating with our customers to drive the transition to a sustainable future



Boliden x ABB



LKAB x ABB



Talga x ABB

Jenny Gotthardsson, General Manager, Boliden Garpenberg and the Fe of the Year 2022, and **Karin Lindgren**, ABB's mining Global R&D and Technology Manager, discuss success factors shaping the future of mining.

ABB collaborates with mining and minerals group LKAB, providers of mining equipment Epiroc and Sandvik and technical consulting company Combitech to set a new world standard for mining at great depths.

Martin Phillips, Chief Executive Officer Europe / Group COO, Talga Group, and **Kari Korpinen**, ABB's mining Regional Sales Manager Europe, discuss the development of Talga's Vittangi Anode project in northern Sweden.



Fossil-free mining conference

At Euro Mine Expo 2022, **Max Luedtke** presented on how we at ABB are working with our many customers and partners to convert existing mines from fossil fuel energy to all electric and automated mines with our ABB eMine™ framework.

[WATCH THE KEY NOTE PRESENTATION](#)



WHITE PAPER

Building the all-electric mine

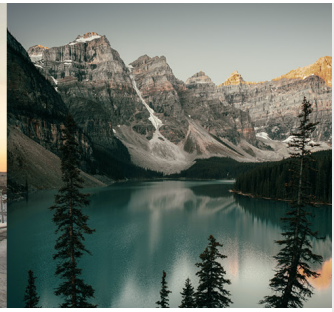
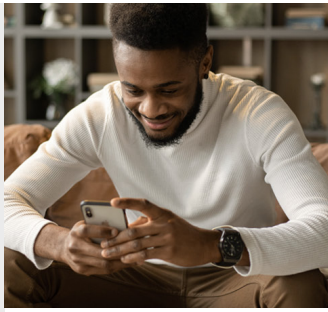
Mapping out the technologies and ingredients needed in the electrification of mining equipment

[DOWNLOAD THE WHITE PAPER](#)

How to reach net-zero emissions?

Many of the world's largest miners are targeting net-zero carbon emissions by 2050. To reach these targets, mining companies will need to make substantial investments in the electrification of equipment. In this white paper, ABB takes a deep dive into the practicalities of electrifying mobile mining equipment and, by extension, achieving an all-electric mine.

[DOWNLOAD THE WHITE PAPER](#)



Mining made better: the hero of the clean energy transition

Electric vehicles, wind turbines, solar panels and other green technologies rely on metals and minerals, and the mines providing these materials are becoming increasingly electric, digital and automated.

Already today, all mining equipment, from mine to port, can be electrified, and ABB is helping mining companies around the world to convert existing mines from being powered by fossil fuel to become all-electric. Once electrified and automated, essential systems can be fully integrated to further optimize operations, from hoists, grinding mills and conveyors, to the large haul trucks used in modern mining operations.

MAKING A WORLD OF DIFFERENCE IN MINING

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