ABB REVEALS HOW IT HELPS TO CONTRIBUTE TO SUSTAINABLE MINING

THE COMPANY HAS TECHNOLOGIES THAT REDUCE CO2 EMISSIONS AND ENERGY CONSUMPTION, DIGITAL SOLUTIONS FOR REMOTE CONTROL OF OPERATIONS, AND AUTOMATIONS THAT INCREASE SAFETY AND EFFICIENCY.

ABB SHARES SUCCESS STORIES AT TECK QB2 AND GOLD FIELDS.

ABB is focused on developing more digital and automation technologies and solutions that contribute to the decarbonization of the mining industry, increase its efficiency in operations and facilitate greater energy savings.

This is what Jorge Abraham, Manager of the Industrial Processes Division of the company, points out. He highlights that a relevant focus of the mining market is to work hard on the carbon footprint and how to reduce emissions and the use of fossil fuels in order to mitigate global warming and comply with new environmental requirements.

MINES WITHOUT CARBON
“The answer lies in greater electrification from renewable energy. In this energy transformation we participate with a wide range of technologies backed by more than 130 years of experience”, he states.

These include a portfolio of solutions such as the ABB Ability™ eMine, which helps to move towards a zero carbon mine. “I highlight the ABB eMine™ Trolley System, which enables the transition from diesel to electric mining trucks, and reduces energy costs and environmental impact,” he informs.

Abraham indicates that ABB has been an active promoter of energy efficiency. “The main energy consumers in the plants are the electric motors, so we have developed equipment that consumes less energy for the same power and torque requirement,” he states.

LEADER IN DCS
Remember that in the past, operators would manually open and close valves or start and stop engines. “As plants grew in size and complexity, automation was needed along with their control systems,” he says.

For more than 20 years, ABB has led the global market for Distributed Control Systems (DCS). “Since its introduction to the market and, as the digital transformation of the industry accelerates, DCS continues to be key to ensuring safe, efficient and reliable operations, enabling valuable data collection and analysis to gain real-time insights,” says Abraham.

TECHNICAL SUPPORT
ABB has 24/7 technical support to diagnose, repair, upgrade and maintain your systems. “Although we live in a connected world, the client always wants a partner by their side, and hopefully at their production sites,” says Abraham.

We have responded to that demand by training professionals and technicians locally through our ABB University. Everyone must know the applications of our solutions in the field, in order to guarantee fast, efficient and assertive attention. That way we can maximize the up time of the assets”, he adds.

SUCCESS STORIES
ABB implemented its solution to remotely operate Teck Quebrada Blanca Phase 2, through the ABB Ability 800xA Control System, whose platform provides coverage from the mine to the port. “One of the greatest achievements of this application, is the implementation of a remote operation. Which is contributing to the fact that many people can have more time to be with their families, as well as shortening the commissioning-start-up processes. Control logic issues can now be overcome with simulators and early training of operators”, says Abraham.

In addition, as an international first, at the Gold Fields gold mining company and its operation in Chile, Salares Norte, the ABB Ability™ solution, Genix Industrial Analytics & AI Suite was first implemented. Its data makes it easier to increase productivity and reduce costs. ABB’s scope includes the Dynamic Process Simulator, which examines the plant control logic, reduces start-up times and allows Gold Fields to train operators with the skills necessary to perform high-quality operations,” he highlights.

Av. Andrés Bello 2447-2457, 11º floor, Providencia, Santiago.
Phone: +56(2) 3319 5940
Email: contact.center@cl.abb.com
www.abb.cl