

The mining industry is also focusing on decarbonization



Mining is a difficult sector to carbonize, yet some emissions can be saved here.

Things are happening in the mining industry when it comes to reducing emissions. For example, there is a new pilot program involving a high-caliber nine-member consortium. Mining Electrification Solutions for Off-Road Vehicles is to be launched. At the heart of it all is a high-performance battery system, so lithium-ion batteries. Short charging times are required, and it should be possible to generate renewable energy on site to supplement the power grid. Moving away from diesel fuel is the goal. Mobile equipment now accounts for 40 to 50 percent of CO₂ emissions from mining operations. According to estimates, a transport truck that runs on electricity uses about 40 percent less fuel, and maintenance costs are also about 20 percent lower.

The advantages are obvious: costs are reduced, as are CO₂ emissions, resulting in a sustainable increase in productivity. In addition, fewer exhaust gases underground also ensure savings in the cost of fresh air supply. So, following the lead-based e-machines, battery-electric solutions are now conquering the mining sector. One of the largest mining groups on earth, Rio Tinto, is also planning a fully battery-electric mobile fleet. Thus, sustainability aspects and Mining 4.0 are becoming a forward-looking issue. This is made possible by lithium-ion batteries, thus by the lithium that companies like Cypress Development or Alpha Lithium have in their projects.

Alpha Lithium - <https://www.youtube.com/watch?v=aZLqdRD9zUY> - is located in the excellent lithium triangle in Argentina with its Tollilar project. In addition, there is the Hombre Muerto lithium project.

Nevada is home to **Cypress Development's** - <https://www.youtube.com/watch?v=-N38AA3Cokg> - prospective Clayton Valley lithium project. Test work at the pilot plant has produced 99.94 percent lithium carbonate. A feasibility study is expected to be completed soon.

Current corporate information and press releases from Alpha Lithium (- <https://www.resource-capital.ch/en/companies/alpha-lithium-corp/> -) and Cypress Development (- <https://www.resource-capital.ch/en/companies/cypress-development-corp/> -).

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