

Fast Charging of Energy Storage Containers for Mining





Overview

How important is heavy haulage for remote mine sites?

“Heavy haulage for remote mine sites contributes around a quarter of the mining industry’s emission and is considered a hard to abate sector, so we’re investing in the technologies that will be part of the solution,” Mr Miller said.

What is the cost-optimal catenary deployment threshold for minimizing tonnage transport costs?

The life-cycle cost analysis identifies 2.071 km as the cost-optimal catenary deployment threshold for minimizing tonnage transport costs - encompassing catenary infrastructure deployment and fleet-scale battery procurement - as evidenced in Fig. 6 (b).

How can off-grid mining improve the environment?

For off-grid mining, renewable energy and storage technologies present an ideal opportunity not only to improve the mine’s environmental footprint, but also reduce energy costs while improving power quality. We are seeing a strong drive to optimise energy across mines, including solutions for e-mobility and rapid charging.

Are electric haul trucks a viable solution for the mining industry?

The incorporation of electric-powered haul trucks is a huge opportunity for the mining industry. Designing a solution that can integrate battery-powered equipment with existing mining processes, without disrupting current (non-stop) operations, will be critical to achieving emission reduction targets.



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