

Towards Zero Emissions in mining

Meeting New Challenges And Demands

Changing consumer habits, urbanisation and growing populations are fuelling the demand for new urban infrastructure, technology and modern conveniences. With a concurrent move towards energy efficiency, green technology and a low carbon future, we are seeing stronger demand for electric cars, wind and solar energy and energy storage. Meeting these demands requires minerals, which places the mining industry in a complex position.

The difficulty in delivering the minerals demanded by society, while simultaneously decreasing environmental footprint, is being compounded by declining ore grades. This has direct implications for the amounts of water and energy needed for production, increasing the environmental footprint of the mine. It is a challenge, but it also creates opportunities for us to be part of the solution.

With MissionZero, our ambition is to offer you and the whole mining industry solutions that support a move towards zero water waste, zero emissions and zero energy waste by 2030.

Why MissionZero?

We launched MissionZero because it is necessary and because it makes sound business sense for both you as our customers in the mining industry and for our own operations. We are the go-to-partner for sustainable productivity, and we are perfectly positioned

MissionZero is FLS' sustainability programme aimed at enabling our customers to move towards zero water waste, zero emissions and zero energy waste by 2030.

to meet your shifting challenges, such as increasing costs and risks, tighter regulations and changing societal expectations.

Achieving MissionZero in Mining

We are dedicated to the development of digital and innovative solutions tied to sustainable productivity. This means offering the required technological solutions to move towards zero-emissions mining processes by 2030, with a specific focus on water management. MissionZero, however, goes beyond what is feasible today, requiring a shift in how we collaborate and innovate.

Already, we have solutions such as dry-stack tailings that enables mine sites to recover up to 95% of their process water and multiple digital solutions that provide greater processing efficiency. But we are also identifying opportunities to significantly improve productivity and environmental impact across your entire mining flowsheet, including crushing, flotation, thickener upgrades and filtration, as well as the maximising potential of pumps and cyclones.

MissionZero is also an invitation to you as our customers, to third parties and to our peers to co-create and ensure adoption of solutions that will transform mining into a more sustainable industry. We ask you to join us on this journey that will deliver significant and quantifiable benefits to the mining industry and will make mining more productive, cost efficient and, of course, sustainable.

Discover more at [FLSmidth.com/MissionZero](https://flsmidth.com/MissionZero)

The Zero Emission Mining Process

Commercially competitive with a minimised environmental footprint



Zero water
waste



Zero
emissions



Zero energy
waste