



ALLIANCE

COLLABORATIVE
PROJECT

TOWARDS A DECARBONIZED MINING INDUSTRY

PANCANADIAN
PROJECT



LOW
CARBON
E



MISA GROUP
MINING EXCELLENCE POLE

legroupemisa.com



Project Overview

The Towards a decarbonized mining industry project is a key initiative of **MISA Group's** Alliance pillar, aimed at transforming the Quebec mining industry to achieve carbon neutrality by 2050. With demand for critical and strategic metals on the rise, this project seeks to meet the energy needs of the mining industry while aligning with Canada's national greenhouse gas (GHG) reduction targets.



The Challenge

The Canadian mining industry is facing a dual challenge: to meet the growing demand for metals essential to the economy and the green transition, while drastically reducing its carbon footprint. This project provides a roadmap for the mining industry to meet these challenges through a structured program of sustainable energy management and decarbonization innovations.

The project focuses on:

By fostering collaboration and leveraging cutting-edge technologies, this project paves the way for a more sustainable and environmentally friendly mining industry.

1

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2

Implementation of energy-efficient technologies and intelligent energy management systems.

3

The adoption of carbon capture and storage solutions to minimize the environmental impact of mining operations.

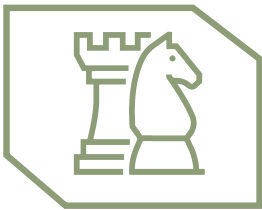


Contact us to maximize the potential of your collaborative project.



Expected impact

This project provides a roadmap for a sustainable and resilient mining industry that contributes to Canada's GHG reduction goals, while positioning Quebec as a world leader in green mining practices. By reducing emissions, improving energy efficiency and embracing innovation, Quebec's mining industry can play a significant role in the transition to a low-carbon future.



Key strategies

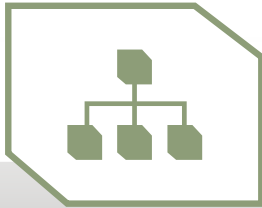
The project explores four main areas to build a low-carbon mining industry:

AXES	THEMES
Diversification of Energy Supply	<ul style="list-style-type: none">• Renewable energy• Nuclear energy and new technologies• Energy storage technologies for renewable energies
Conversion of Energy Demand	<ul style="list-style-type: none">• Integration of renewable energies in mine electrification• Conversion of biomass into electrical energy• Use of hydrogen for mining electrification• Converting waste heat into electricity
Energy Efficiency	<ul style="list-style-type: none">• Technologies and practices for optimizing energy consumption• Intelligent management of energy resources• Energy storage• Integration of renewable energies into networks électriques miniers
Carbon Capture	<ul style="list-style-type: none">• Carbon capture technologies• Reduction of CO2 emissions• Storage and recovery of captured CO2• Environmental impact and economic benefits

If you are interested in taking part in this project in Quebec, contact us to receive the project form to be completed.

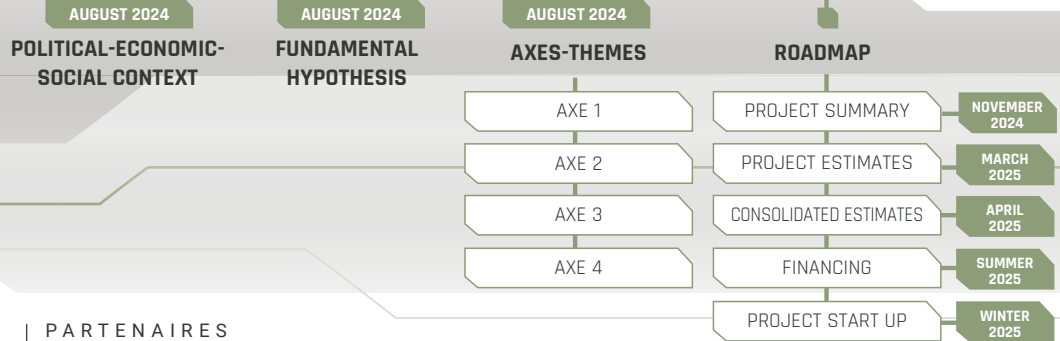


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Summary and next steps

PROJECT STRUCTURE



PROMOTER

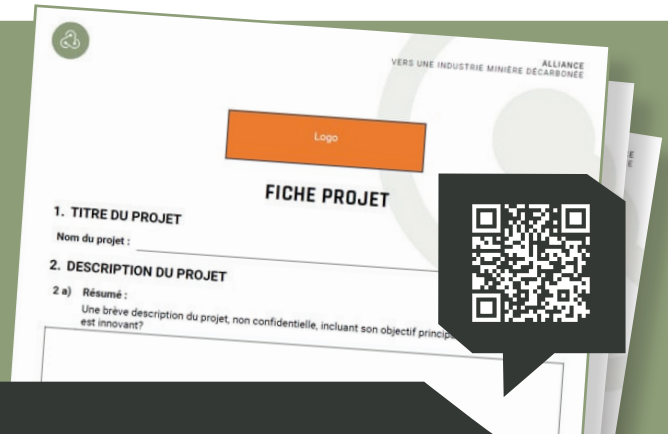


PARTENAIRES



Project form to be completed

Click here to download project file:
<https://bit.ly/3UG8GOp>



Why choose Alliance?

Alliance offers a solid support structure to facilitate collaboration between various stakeholders, responding to the complex challenges and specific needs of the mining industry. This initiative strengthens efficiency and innovation in the industry while promoting synergy between all stakeholders.

Ready to innovate?

Join Alliance and be part of a transformative adventure in the mining industry. For more information and to get involved.

Join our team

MISA Group invites all industry players to join this essential initiative. Let's work together to build a sustainable mining industry aligned with environmental objectives.

MISA GROUP, the mining innovation resource.



Contact us to maximize the potential of your collaborative project.



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