

Climate friendly and Energy-Efficient Mining

Promoting low-emission extraction of raw materials and efficient use of resources in Colombia and Chile

Where and how we work

Raw materials extracted from nature and transformed into different products are an important activity for Colombia's economic development: they represent about 2% of the Gross Domestic Product (GDP) and 20% of total exports.

In the last decade the government has focused on making this sector more environmentally friendly and competitive in international markets. Colombia has a great mining deposit potential; yet, at the same time, only 4% of the national territory is dedicated to legal mining.

In the framework of the Paris Agreement, Colombia committed to reducing 51% of its greenhouse gas (GHG) emissions by 2030, through its Nationally Determined Contribution (NDC). This ambitious goal positions the country as a regional example in the fulfillment of this and other international policies such as the Sustainable Development Goals (SDG).

In response to this complex situation, the country has formulated a series of public instruments (Colombian Low Carbon Development Strategy (ECDDB), National Climate Change Policy (PNCC)), which seek to contribute to Colombia's economic, social and environmental development. In 2018, the Ministry of Mining and Energy launched the Integrated Management Plan for Climate Change in the Mining and Energy Sector (PIGCCme), with the objective of reducing vulnerability to climate change, strengthening and protecting the sustainability and competitiveness of the mining and energy industry.

The MaPriC Project is committed to develop policies and support actions able to foster a more responsible mining in line with the necessary esteem for the environment and society. In addition to the activities planned in Colombia, the project includes a course of

action in Chile, focusing on the development of energy efficiency in copper mining.

At the request of	German Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV), through the International Climate Initiative (IKI)
German contribution	3.500.000 euros (2.5 M€ Colombia and 1 M€ Chile)
Political Counterpart	Ministry of Environment and Sustainable Development and Ministry of Mining and Energy (Colombia). Ministry of Energy and the Agency for sustainable Energy (Chile)
Description	Climate and environmental policy instruments to promote low-emission raw material extraction and resource efficiency in developing and emerging countries
Duration	April 2019 – March 2022

Accomplishments

The Project aims to develop and complement existing regulations in Colombia and Chile, aiming to the reduction of the environmental impacts caused by the extraction of raw materials. At the same time, promote strategies able to increase resource efficiency, reduce greenhouse gas emissions and improve environmental regulations and as well as their effectiveness.

The project is part of the International Climate Initiative (IKI), funded by the Federal Ministry of the Environment, Nature Conservation and Nuclear Safety (BMU). In Colombia, the work is



carried out with the Ministry of Environment and Sustainable Development, the Ministry of Energy and its related bodies.

Based on the World Bank's Climate Smart Mining concept, MaPriC is proposing an innovative approach towards a mining committed with lesser impacts environment and society, bringing together government entities, private companies, academy, local communities and other stakeholders. Both in Colombia and Chile, the project cooperates with 22 large and medium-sized mining companies.

To achieve its objectives, the project works in four areas:

1. Environmental and climate change policies: Strategies and instruments will be developed with the public and private mining sector to contribute to the reduction of GHG emissions by 2030.

2. Strengthen mining regulations in Colombia: Based on existing environmental standards, we are working together to improve mining regulations and promote sustainable strategies.

3. Improve energy efficiency in the raw materials sector in Chile: Looking forward towards a more responsible copper mining with the use of energy resources and committed with improved practices in the mining industry.

4. Capacity Building and best practices exchange: The Project is promoting both national and international dialogue forums aiming to share experiences, strenght capacities and results among companies, governments and stakeholders, through evetnts, workshops and publications.

The following main activities are carried out in Colombia:

- Support on the Climate Change Guide tool for private climate change enterprises.
- Support on new regulation guidelines for: tailings and acit drainage, best practices on quarry mining, environmental impact studies and update of the environmental mining guide and mining clousure.
- Study for the Low Carbon Development Strategy on nickel and aggregates and support for project

implementation on mitigation and adaptation to climate change.

- Capacity building on gender and socio-environmental safeguards, green hydrogen and climate change.
- In partnership with the companies, support on the design of four climate change plans for aggregates.
- Studies aiming to implement the ISO 50001 on both productive sectors.
- Implementation of the first chapter of the IRMA (Iniciative for Responsible Mining Assurance) standard.
- Participation on international technical and political platforms such as ELAMI (Latin American Energy Meeting) and Sustainable Mining 2021.
- Systematization of the experiences and outcomes of the sponsored technical studies for goverments and private companies.

The program partner with companies that are aware of the importance of sustainable mining and are committed to improve procedures and support measures to reduce the impact of the climate change.



Cerro Matoso Ferronickel Mine, Colombia

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