Best Practices for Nickel Mining & Processing - Pocket Guide



At Umicore, we are committed to minimizing the negative impact of our operations and supply chain on people and the environment. This is part of our RISE strategy, and to achieve this goal, we have implemented sustainable procurement policies. Our policies include a nickel-specific sourcing framework, which we follow to ensure responsible sourcing practices.

To provide you with a better understanding of these practices, we have developed a short guidance document that outlines the best practices for different risk categories, focusing specifically on the nickel industry. We have also included links to more detailed sources of information.

We understand that adopting best practices can be challenging, but we look forward to collaborating with you to achieve our shared goals. Please feel free to reach out to our <u>Responsible Sourcing Team</u> if you have any questions.



Deforestation and Biodiversity

Risks include the uncontrolled release of stored CO2, irrevocable damage to vulnerable ecosystems, loss of rare species, loss of livelihood for communities, and an increase in flood and landslide events.

Best practice:

- Conduct a biodiversity baseline study before commencing mining operations.
- Identify high-carbon stock and key biodiversity areas on the concession as no-go-zones.
- Create a plant nursery with native species.
- Restore mined-out areas and monitor the return of biodiversity.
- Keep overburden for later restoration.
- Set aside funds for full restoration post-mining.
- For more information, refer to the <u>ICMM guidance on biodiversity</u>

Tailings and Water Pollution

The risks associated with tailings and water pollution include tailings dam failure, pollution of drinking water and fishing areas, and long-term contamination of soil and water bodies.

Best practice:

- Implement a dry-stacking solution with an integrated water management system. Avoid deep-sea tailings placement.
- Regularly check the chemical stability of tailings by an independent laboratory.
- Plan for later rehabilitation.
- Regularly conduct independent water analysis, such as Cr6+.
- Reuse water in the processing cycles as much as possible.
- Only release water after lab analysis and treatment.
- For more information, refer to the ICMM guidance on tailings.

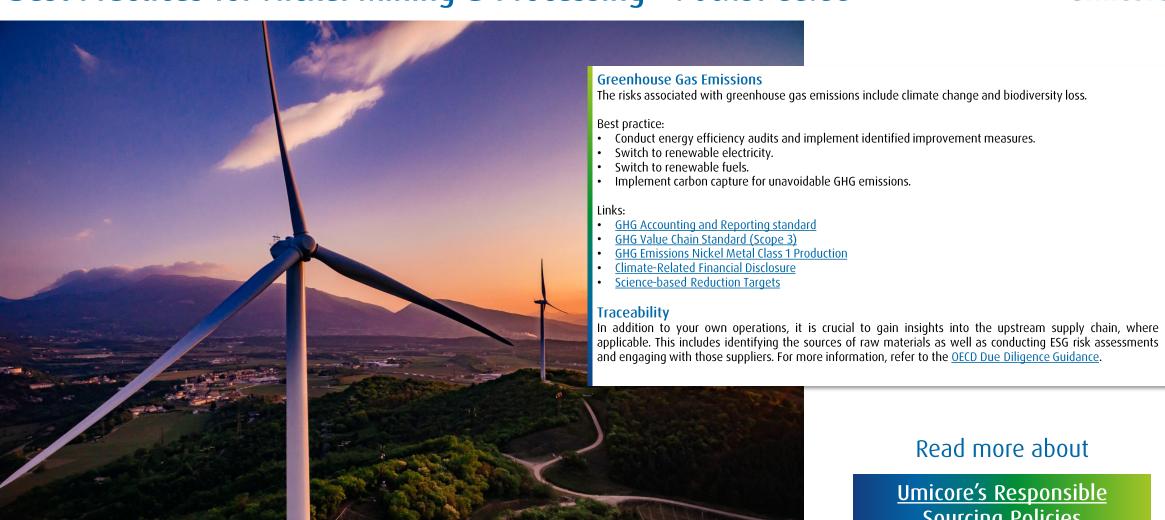
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Sourcing Policies