

Supplementary Materials

A Quantitative Framework for Measuring Sustainable Development Goals in Mining Operations

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Table S1. Questions, indicators, and scores devised for the SDG 2 (Zero Hunger)

SDG 2: Zero Hunger				
Category	Subcategory	Question	Indicator	Score
Explore synergies with agriculture	Manage water resources transparently	Is there a report to demonstrate how the mine has managed its water resources?	Yes	20
			No	0
	Minimise land take	What percentage of the mine's land was previously used for agriculture?	Less than 5 %	20
			Between 5% and 10%	12
			Between 10% and 15%	6
			More than 15%	0
Keep farmland pollution-free	Share infrastructure benefits with the agricultural community	Does the company share its infrastructure such as railways and ports with the agricultural sector?	Yes	20
			No	0
	Conduct baseline and ongoing geochemical surveys	Have preliminary and ongoing geochemical studies on the agricultural soils surrounding the mine been conducted?	Yes	20
			No	0
	Monitor water quality and soil fertility regularly	How frequently are samples taken of the water used in the mine's surrounding agricultural area?	Once in a month	20
			Once in season	12
			Once in a year or less	6
			Never	0

Table S2. Questions, indicators, and scores devised for the SDG 3 (Good Health & Well-Being)

SDG 3: Good Health & Well-Being				
Category	Subcategory	Question	Indicator	Score
Champion occupational health and safety	Promote workplace health	How much has the mine's overall accident percentage changed compared to the previous year? (Including fire, falling objects, falling from a height, suffocation, electrocution, etc.)	Decreased by 10% or more	10
			Decreased between 0% and 10%	7
			Increased between 0% and 10%	3
			Increased by 10% or more	0
	Establish rigorous workplace health and safety monitoring and reporting	Is there a report to demonstrate establishing rigorous workplace health and safety monitoring and reporting?	Yes	10
			No	0
	Focus on road safety	How much has the percentage of all traffic accidents in the mine changed compared to the previous year?	Decreased by 10% or more	10
			Decreased between 0% and 10%	7
			Increased between 0% and 10%	3
			Increased by 10% or more	0
Offer and encourage preventive care	Screen for NCDs	How frequently are employees screened for noncommunicable diseases? (such as stroke, heart disease, cancer, diabetes and chronic lung disease)	Once in a month	10
			Once in a season	7
			Once in a year or less	3
			Never	0
	Provide healthy canteen food options and good hygiene protocols	Is there a report to demonstrate providing healthy canteen food options and good hygiene protocols?	Yes	10
			No	0
	Prevent toxic emissions to the environment	How many days a year does the air quality in the mine fall into the unhealthy range?	Less than 10	10
			between 10 and 20	7
			between 20 and 40	3
			More than 40	0
Combat Tuberculosis and HIV/AIDS	Reduce silica dust	How much has the percentage of the average emission of silica dust in the mine changed compared to the previous year?	Decreased by 10% or more	10
			Decreased between 0% and 10%	7
			Increased between 0% and 10%	3
			Increased by 10% or more	0
	Run HIV/AIDS education, prevention and counselling programmes	Is there an appropriate level of access to HIV/AIDS counseling centers for all mine employees?	Yes	5
			No	0
Increase mental health awareness	Approach health holistically	Is there a report of employers offering a corporate wellness program to improve mine workers' physical, mental, and emotional health?	Yes	5
			No	0
	Set up confidential counselling programmes	Is there an appropriate level of access to psychologists for all mine employees?	Yes	10
			No	0
	Regularly test for drug and alcohol use and abuse	Are mine workers subjected to blanket tests and random drug and alcohol tests once a year?	Yes	10
			No	0

Table S3. Questions, indicators, and scores devised for the SDG 4 (Quality Education)

SDG 4: Quality Education				
Category	Subcategory	Question	Indicator	Score
Assess and upgrade the local skills base	Routinise skills baseline assessments and gap analyses	How frequently does HR conduct baseline skills assessments and individual and team gap analyses to assess employee skills and knowledge?	Once in a month	30
			Once in a season	20
			Once in a year	10
			Never	0
	Sponsor apprenticeships, scholarships, and graduate programmes	How much has the percentage of interns taken per number of mining workers changed compared to the previous year?	Increased by 5% or more	30
			Increased between 0% and 5%	20
			Decreased between 0% and 5%	10
			Decreased by 5% or more	0
Train and educate the workforce	Train workforce in technical and management skills	How many workshops and training courses have human resources management organized in the last year to improve employees' technical and management skills?	More than three	20
			One to three	10
			Zero	0
	Ensure training opportunities are made available to employees at all levels and across all backgrounds	Is there a report to demonstrate training opportunities are made available to employees at all levels and across all backgrounds?	Yes	20
			No	0

Table S4. Questions, indicators, and scores devised for the SDG 5 (Gender Equality)

SDG 5: Gender Equality				
Category	Subcategory	Question	Indicator	Score
Offer equal opportunities for women	Recruit more women	How much has the number of women employed changed compared to the previous year? (The highest value can be dedicated if the total number is 50%.)	Increased by 5% or more	15
			Increased between 0% and 5%	10
			Decreased between 0% and 5%	5
			Decreased by 5% or more	0
	Pay women and men equally	Are men and women paid equal at the same job levels?	Yes	10
			No	0
	Promote more women to visible leadership positions	What percentage of the mine board members are women?	More than 50%	15
			Between 25% and 50%	10
			Between 10% and 25%	5
			Less than 10 %	0
	Adopt, where possible, flexible schedules for accommodating childcare	Is there a kindergarten nearby for the mine's employees' children?	Yes	10
			No	0
		Does the mine provide paid maternity leave?	Yes	10
			No	0
Practice gender inclusion across the business and project life-cycle	Offer gender-appropriate PPE	Is the mine working with a supplier to provide personal protective equipment such as safety shoes, clothing, and gloves for women?	Yes	10
			No	0
	Provide gender-sensitive career development planning	Is there a report to demonstrate that the mine has provided gender-sensitive career development planning?	Yes	10
			No	0
	Incorporate perspectives of women, men, and children in community-related decisions	Is there a report to demonstrate the incorporation of perspectives of women, men, and children in community-related decisions?	Yes	10
			No	0
	Include men and women in negotiations	What percentage of the mining negotiation team is female?	More than 50%	10
			Between 25% and 50%	7
			Between 10% and 25%	3
			Less than 10 %	0

Table S5. Questions, indicators, and scores devised for the SDG 6 (Clean Water and Sanitation)

SDG 6: Clean Water and Sanitation				
Category	Subcategory	Question	Indicator	Score
Conserve and recycle water	Recycle and/or recover metals from wastewater	How much has the average recovery or recycling rate of metals changed compared to the previous year?	Increased by 5% or more	10
			Increased between 0% and 5%	7
			Decreased between 0% and 5%	3
			Decreased by 5% or more	0
	Reduce water consumption; use alternative water sources (greywater, seawater)	How much has the water consumption per tonnage of the final product changed compared to the previous year?	Decreased by 5% or more	10
			Decreased between 0% and 5%	7
			Increased between 0% and 5%	3
			Increased by 5% or more	0
	Use alternative water sources (greywater, seawater)	How much has the mining complex's use of alternative water sources changed compared to the previous year? (such as greywater and seawater)	Increased by 5% or more	10
			Increased between 0% and 5%	7
			Decreased between 0% and 5%	3
			Decreased by 5% or more	0
Manage water holistically	Align with government water management policies	Is there a report to demonstrate the alignment of the mine with government water management policies?	Yes	10
			No	0
	Integrate technical, social, economic, and political water concerns	Is there a report to demonstrate the integration of technical, social, economic, and political water concerns?	Yes	10
			No	0
	Identify high-value water areas	Is there a report to demonstrate the identification of high-value water areas?	Yes	10
			No	0
	Maintain long-term water balance throughout projects	How has the long-term water balance changed during the mining project?	Maintained	10
			Changed	0
	Incorporate water reporting and disclosure	Is there a report to demonstrate the incorporation of water reporting and disclosure?	Yes	10
			No	0
Monitor water quality	Monitor water sources both near-mine and downstream	How frequently is water quality monitored in the near-mine areas and downstream?	Once in a month	10
			Once in season	7
			Once in a year or less	3
			Never	0
	Involve the community in monitoring and share water data openly	Is there a report to demonstrate the involvement of the community in monitoring and sharing water data openly	Yes	10
			No	0

Table S6. Questions, indicators, and scores devised for the SDG 7 (Affordable and Clean Energy)

SDG 7: Affordable and Clean Energy				
Category	Subcategory	Question	Indicator	Score
Improve energy efficiency	Undertake energy audits	Is the energy audit performed at the mine regularly or when the main workflow changes?	Yes	10
			No	0
	Improve energy infrastructure maintenance	How much has the maintenance costs of mine energy infrastructure changed compared to the previous year?	Decreased by 5% or more	15
			Decreased between 0% and 5%	10
			Increased between 0% and 5%	5
			Increased by 5% or more	0
	Reduce energy demand onsite	How much has the energy demand onsite per tonnage of the final product changed compared to the previous year?	Decreased by 5% or more	20
			Decreased between 0% and 5%	12
			Increased between 0% and 5%	6
			Increased by 5% or more	0
Incorporate renewable energy	Deploy off-grid wind, solar or geothermal power	How much has the amount of off-grid electricity supply using renewable energies changed compared to the previous year?	Increased by 5% or more	20
			Increased between 0% and 5%	12
			Decreased between 0% and 5%	6
			Decreased by 5% or more	0
	Diversify power sources for reducing outages	How much has the electricity supply from non-renewable sources such as fossil fuels changed compared to the previous year?	Decreased by 5% or more	20
			Decreased between 0% and 5%	12
			Increased between 0% and 5%	6
			Increased by 5% or more	0
	Replace diesel generators	How much has the energy production by renewable energy sources compared to using diesel generators changed compared to the previous year?	Increased by 5% or more	15
			Increased between 0% and 5%	10
			Decreased between 0% and 5%	5
			Decreased by 5% or more	0

Table S7. Questions, indicators, and scores devised for the SDG 8 (Decent Work and Economic Growth)

SDG 8: Decent Work and Economic Growth				
Category	Subcategory	Question	Indicator	Score
Communicate opportunities and limits of mining	Provide decent work	What percentage of the employees on average were satisfied with their jobs over the last year?	More than 80%	20
			Between 50% and 80%	12
			Between 25% and 25%	6
			Less than 25%	0
	Catalyze indirect and induced employment	How much has the indirect and induced employment (FTE: full-time equivalent) of the mine changed compared to last year?	Increased by 5% or more	15
			Increased between 0% and 5%	10
			Decreased between 0% and 5%	5
			Decreased by 5% or more	0
	Clearly communicate the capital-intensive nature of mining	Is there a report to demonstrate clear communication of the capital-intensive nature of mining?	Yes	15
			No	0
Drive economic growth with local procurement	Diversify local economies	How much has the number of local suppliers that the mining complex is in contact with in various fields changed compared to last year? (such as the supply of raw materials and equipment)	Increased by 5% or more	15
			Increased between 0% and 5%	10
			Decreased between 0% and 5%	5
			Decreased by 5% or more	0
	Make bidding accessible to local contractors	What percentage of the mining tenders were won by local contractors over the last year?	More than 50%	20
			Between 25% and 50%	12
			Between 10% and 25%	6
			Less than 10 %	0
	Train local suppliers how to meet corporate supply requirements	Has a workshop or briefing meeting been held with local suppliers regarding the supply requirements of the mining company over the last year?	Yes	15
			No	0

Table S8. Questions, indicators, and scores devised for the SDG 9 (Industry, Innovation and Infrastructure)

SDG 9: Industry, Innovation and Infrastructure				
Category	Subcategory	Question	Indicator	Score
Support local procurement	Upgrade expertise of local suppliers	How many projects are funded by mine that aim to improve local suppliers' skills?	Two or More	20
			One	10
			Zero	0
	Improve quality of locally produced goods	Is there a report to demonstrate the improvement in the quality of locally produced goods?	Yes	10
			No	0
	Provide support to local suppliers to service the mine	Is there a report to demonstrate providing support to local suppliers to service the mine?	Yes	10
			No	0
	Share infrastructure	Explore co-funding arrangements with governments	Is there a report to demonstrate exploring co-funding arrangements with governments?	Yes
No				0
Share rail, road, power, water, ICT infrastructure		How many of these infrastructures -road, rail, water, power, and ICT- are shared with the local community?	All	40
			Three	30
			Two	20
			One	10
			None	0
			Harness economies of scale and economies of scope	Is there a report to demonstrate harnessing economies of scale and economies of scope?
No	0			

Table S9. Questions, indicators, and scores devised for the SDG 10 (Reduced Inequalities)

SDG 10: Reduced Inequalities				
Category	Subcategory	Question	Indicator	Score
Anticipate inequality-related risks	Be sensitive to local wage disparities	How much is the wage gap between expats and local workers?	Less than 10%	30
			Between 10% and 15%	20
			Between 15% and 20%	10
			More than 20%	0
	Establish baseline welfare statics before mining	Is there a report to demonstrate establishing baseline welfare statics before mining?	Yes	20
			No	0
Champion inclusivity	Train, recruit and employ marginalised populations	What percentage of unskilled workers belong to the marginalized populations?	More than 25%	30
			Between 15% and 25%	20
			Between 5% and 15%	10
			Less than 5 %	0
	Include excluded groups in local procurement and supply chains	Is there a report to demonstrate including excluded groups in local procurement and supply chains?	Yes	20
			No	0

Table S10. Questions, indicators, and scores devised for the SDG 11 (Sustainable Cities and Communities)

SDG 11: Sustainable Cities and Communities				
Category	Subcategory	Question	Indicator	Score
Mine unconventional deposits	Re-mine tailings	Is there a report to demonstrate the mine's plan for re-mining tailings?	Yes	10
			No	0
	Mine urban waste (urban mining)	Is there a report to demonstrate mine's plan for urban mining?	Yes	10
			No	0
	Pair metals recycling and waste energy reclamation	Are final wastes used for metals recycling and waste energy reclamation?	Yes/Both	20
			Yes/Only one	10
Plan land use carefully	Plan land use with the life of mine in mind	Is there a report to demonstrate planning land use with the life of mine in mind?	No	0
			Yes	10
	Reclaim mines into parks	What percentage of the mine site's land will be reclaimed into parks?	More than 80%	20
			Between 50% and 80%	15
			Between 20% and 50%	10
			Less than 20%	0
			Two or more	20
	Develop cultural heritage management plans	How many restoration plans for cultural heritage have been funded by the mine?	One	10
			Zero	0
	Anticipate unplanned urbanisation	Is there a report to demonstrate anticipating unplanned urbanization?	Yes	10
No			0	

Table S11. Questions, indicators, and scores devised for the SDG 12 (Responsible Consumption and Production)

SDG 12: Responsible Consumption and Production				
Category	Subcategory	Question	Indicator	Score
Minimise resources use and waste	Minimise use of water, energy, land, chemicals	Has the mine reduced its use of water, energy, land, and chemicals by at least 10% compared to previous year?	Yes/All of them	30
			Yes/Only three of them	20
			Yes/Only two of them	10
			Yes/Only one of them	5
			No	0
	Minimise production of waste, effluent, emissions	Has the mine reduced the production of waste, effluent, and emissions by at least 10% compared to previous year?	Yes/All of them	30
			Yes/Only two of them	20
			Yes/Only one of them	10
			No	0
	Re-purpose waste rock	Is there a report to demonstrate re-purposing of waste rock?	Yes	10
			No	0
Incorporate lifecycle thinking	Analyse mineral and chemical products across sourcing, transport, storage, use, production	Has the mine conducted a life cycle assessment for evaluating final product?	Yes/cradle-to-grave LCA	20
			Yes/cradle-to-gate LCA	15
			Yes/gate-to-gate LCA	10
			No	0
	Extend responsible sourcing to suppliers	Is there a report to demonstrate the extension of responsible sourcing to suppliers?	Yes	10
			No	0

Table S12. Questions, indicators, and scores devised for the SDG 13 (Climate Action)

SDG 13: Climate Action				
Category	Subcategory	Question	Indicator	Score
Reduce emissions	Improve energy efficiency	How much has the mines's energy efficiency changed compared to the previous year?	Increased by 10% or more	10
			Increased between 0-10%	7
			Has not changed	5
			Decreased between 0-10%	2
			Decreased by 10% or more	0
	Use renewable energy	What percentage of total energy consumption is derived from renewable sources?	More than 75%	15
			Between 50% and 75%	10
			Between 25% and 50%	5
			Less than 25%	0
	Use low-emission fuels	What percentage of total energy consumption is derived from Coal?	Less than 15%	10
			Between 15% and 25%	6
			Between 25% and 50%	3
			More than 50%	0
	Align with INDCs	Is there a report to demonstrate alignment with INDCs?	Yes	5
			No	0
	Measure and report direct,indirect, and product-related emissions	Is there a report to demonstrate the measuring of direct, indirect, and product-related emissions?	Yes/All of them	10
			Yes/Only Two of them	6
			Yes/Only One of them	3
			No	0
Recognise climate change in planning and investment	Use scenario planning to inform views on climate and energy risks and opportunities	Is there a report to demonstrate using scenario planning to inform views on climate and energy risks and opportunities?	Yes	5
			No	0
	Use climate projections in design and placement of operations and infrastructure	Is there a report to demonstrate using climate projections in design and placement of operations and infrastructure?	Yes	5
			No	0
	Adopt corporate climate change, carbon management and disclosure policies	Is there a report to demonstrate adopting corporate climate change, carbon management, and disclosure policies?	Yes	5
			No	0
	Use shadow carbon prices to inform portfolio evaluation and investment decisions	Is there a report to demonstrate using shadow carbon prices to inform portfolio evaluation and investment decisions?	Yes	5
Build climate change resilience			No	0
	Include climate change on the board agenda	Is there a report to demonstrate including climate change on the board agenda?	Yes	5
			No	0
	Plan for climate change impacts on mines and communities	How many programs related to climate change mitigation are funded by mine?	Two or More	10
			One	5
			Zero	0
	Strengthen emergency response plans	Is there a report to demonstrate strengthening emergency response plans?	Yes	5
			No	0
	Model climate-related environmental impacts	Has the mine conducted research to model the climate-related environmental impacts of its activities on both the environment and humans?	Yes/Both	10
			Yes/Only one of them	5
			No	0

Table S13. Questions, indicators, and scores devised for the SDG 14 (Life Below Water)

SDG 14: Life Below Water				
Category	Subcategory	Question	Indicator	Score
Incorporate life under water into impact assessments	Properly dispose of tailings/waste	Does the mine produce acid mine drainage (AMD)?	No	20
			Yes/Doesn't flow into the river	10
			Yes/Flow into the river	0
	Assess social and environmental impacts on fishing- and marine-based livelihoods	How much has the volume of caught fish changed compared to before the start of mining activity?	Has not changed	20
			Decreased between 0% and 10%	10
			Decreased by 10% or more	0
	Map breeding grounds and migration routes of underwater species	Is there a report to demonstrate the mapping of breeding grounds and migration routes of underwater species?	Yes	10
			No	0
Approach seafloor mining cautiously	Protect marine life	Is there a report to demonstrate the adoption of the precautionary principle to protect marine life?	Yes	10
			No	0
	Minimise habitat disturbance	Which group, animals or plants, is affected by mining activities in terms of death or migration?	None	20
			One group	10
			Both groups	0
	Conduct sensitivity analyses in understanding short- and long-term impacts	How often is a marine life impact assessment carried out?	Once in a month	20
			Once in a season	10
			Once in a year or less	5
			Never	0

Table S14. Questions, indicators, and scores devised for the SDG 15 (Life on Land)

SDG 15: Life on Land				
Category	Subcategory	Question	Indicator	Score
Achieve net positive or no net loss impact	Apply mitigation hierarchy to minimise impact	Is there a report to demonstrate the application of the mitigation hierarchy to minimize impact?	Yes	15
			No	0
			Zero	20
	Avoid impacts to critical habitat	How many critical habitats are located inside the mine's impact region?	One	10
			Two or More	0
			Zero	20
	Offset biodiversity impacts	How many species have become endangered due to mining activities?	One	10
			Two or More	0
Preserve ecosystem services	Recognise dynamic nature of habitats	Is there a report to demonstrate recognition of the dynamic nature of habitats?	Yes	15
			No	0
	Conduct comprehensive baseline and follow-up environmental assessments	Has the mine conducted research to assess both intrinsic and service biodiversity values?	Yes/Both	30
			Yes/Only one	15
			No	0

Table S15. Questions, indicators, and scores devised for the SDG 16 (Peace, Justice and Strong Institutions)

SDG 16: Peace, Justice and Strong Institutions				
Category	Subcategory	Question	Indicator	Score
Prevent and preempt conflict	Listen and respond early to stakeholder concerns	What is the primary stakeholders' satisfaction percentage?	More than 80%	20
			Between 50% and 80%	10
			Between 20% and 50%	5
			Less than 20%	0
	Establish formal and accessible complaint and grievance mechanisms	How much has the number of employee complaints to management changed compared to the previous year?	Decreased by 10% or more	20
			Decreased between 0% and 10%	15
			Has not changed	10
			Increased between 0% and 10%	5
			Increased by 10% or more	0
			Participate in conflict-free mineral certification schemes	Is there a report to demonstrate participation in conflict-free mineral certification schemes?
	No	0		
Respect indigenous peoples' rights and FPIC	Implement human rights impact assessments	Is there a report to demonstrate the implementation of human rights impact assessments?	Yes	15
			No	0
	Extend high standards to security contractors	Is there a report to demonstrate the extension of high standards to security contractors?	Yes	15
			No	0
	Incorporate both regulatory requirements and local community objectives and sentiments into decisions	What percentage of local people are satisfied in relation to the effects of mining decisions on their lives?	More than 80%	15
			Between 50% and 80%	10
			Between 20% and 50%	5
Less than 20%			0	

Table S16. Questions, indicators, and scores devised for the SDG 17 (Partnerships for The Goals)

SDG 17: Partnerships for The Goals				
Category	Subcategory	Question	Indicator	Score
Mobilise financial resources and technology	Make data on payments to governments transparent	How many of these payment factors are publicly available? (Production entitlements, Taxes, Royalties, Fees, Bonuses, Dividends, Infrastructure improvement payments)	Seven	20
			Five to six	15
			Three to Five	10
			One to Three	5
			Zero	0
	Build data collection and statistical analysis capacity	Is there a report to demonstrate the steps taken by the mine to build data collection and statistical analysis capacity?	Yes	10
			No	0
	Transfer technologies to producing countries	Is there a report to demonstrate the implementation of technology transfer methods such as licensing, support contracts, and joint ventures?	Yes	10
			No	0
	Engage in public-private partnerships	How many projects have been financed by the mine to implement public infrastructures/services during the last year?	Two or More	15
			One	7
			Zero	0
Share geo-data	Transfer unused exploration data over to national authorities	Is the unused exploration data available to share?	Yes/Free	20
			Yes/Not Free	10
			No	0
	Improve national knowledge of mineral wealth	How many workshops have been financed by the mine to improve national knowledge of mineral wealth during the last year?	Three or More	15
			One to Three	7
			Zero	0
	Facilitate trust with governments and communities	Is there a report to demonstrate the steps taken by the mine to facilitate trust with governments and communities?	Yes	10
			No	0