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ICMM
International Council
on Mining & Metals

**MINING WITH
PRINCIPLES**

MMG

MMG Limited
**Sustainability
Glossary**

We mine for
progress

Overview

This glossary defines key Environmental, Social and Governance (ESG) terms used across MMG's sustainability disclosures, including the Sustainability Report, Sustainability Databook, Global Industry Standard on Tailings Management (GISTM) Disclosure, Voluntary Principles reporting and Modern Slavery Statement.

It supports:

- Consistent terminology across MMG
- Clear and accessible interpretation of ESG concepts
- Alignment with MMG's internal frameworks and external reporting standards.

All terms are presented in alphabetical order and tagged with the relevant MMG sustainability pillar, as follows:

- **People and Communities**
- **Environmental Stewardship**
- **Trusted and Responsible Producer**
- **Internal frameworks, systems or definitions.**

The document also includes Materiality Descriptors that define MMG's material topics and support alignment with the Sustainability Framework and external reporting requirements.

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Glossary of Terms (Alphabetical)

● Absolute emissions

Total greenhouse gas (GHG) emissions expressed in absolute terms, without normalisation for production or activity levels.

● Accountable Executive (AE)

Executive with ultimate accountability for tailings facility safety and conformance with the Global Industry Standard on Tailings Management (GISTM).

● Acid Mine Drainage (AMD)

Acidic water generated from the oxidation of sulphide minerals, which may mobilise metals and impact water quality if not effectively managed.

● Air quality (PM10 / PM2.5)

Concentration of airborne particulate matter monitored to assess potential impacts on human health and the environment.

● ALARP (As Low As Reasonably Practicable)

A risk management principle requiring risks to be reduced as far as reasonably practicable, unless further reduction would be grossly disproportionate to the benefit gained.

● Analysis

Interpretation of data to assess trends, compliance and performance outcomes.

● ANCOLD

Australian National Committee on Large Dams, which provides guidelines and standards referenced in the design, construction and management of tailings storage facilities.

● Anti-bribery and corruption (ABC)

Policies, procedures and controls designed to prevent bribery, corruption and improper conduct across operations and business relationships.

● Artisanal and Small-Scale Mining (ASM)

Small-scale mining activities outside large industrial operations, often associated with elevated safety, environmental and human rights risks.

● ASRS (Australian Sustainability Reporting Standards)

Standards issued by the Australian Accounting Standards Board (AASB), aligned to the IFRS global baseline (including climate reporting under AASB S2).

● Assurance (three lines)

Governance model comprising operational management, oversight functions, and independent assurance.

● Audit

Independent review of systems, controls or data to assess compliance and performance.

● Baseline (environmental)

Pre-project environmental conditions used as a reference point to assess change and impact.

● Biodiversity Net Gain

Outcome where biodiversity values are measurably improved compared to baseline after applying the mitigation hierarchy.

● Board

The Board of Directors of MMG, responsible for overseeing the Company's strategy, governance, risk management and performance, including oversight of sustainability-related matters and disclosures.

● Borealis

MMG's stakeholder engagement system used to record interactions, commitments, events and grievances.

● CAHRAs

Conflict-Affected and High-Risk Areas — Areas experiencing conflict, instability or weak governance, where risks of human rights abuses and adverse business impacts are heightened.

● Carbon budget

The total allowable greenhouse gas emissions to remain within a defined global temperature threshold.

Glossary of Terms (Alphabetical)

Continued

● Carbon neutrality

Achieving zero carbon dioxide equivalent emissions through emissions reduction initiatives and carbon offsetting.

● CDP (Carbon Disclosure Project)

A global non-profit disclosure system that collects and scores company environmental data (e.g., climate, water, forests).

● Circular economy

Approach focused on minimising waste, maintaining materials in use and regenerating natural systems.

● Climate scenario analysis

Assessment of site and business resilience under plausible climate futures, aligned with TCFD and IFRS S2.

● Code of Conduct

MMG's standard outlining expected behaviour, ethical practices and respect for human rights.

● Collective bargaining

Negotiation between employers and worker representatives regarding employment terms and conditions.

● Collective Bargaining Agreement (CBA)

Formal agreement between an employer and a union representing employees.

● Community investment

Funding and initiatives that support community development, including health, education and infrastructure.

● Consequence classification (TSF)

Classification of potential impacts from tailings facility failure based on severity, not likelihood.

● CRG (Community Reference Group)

A local stakeholder group used as a structured forum for community engagement and feedback on site activities.

● CSA (Corporate Sustainability Assessment) [Governance]

S&P Global's annual corporate sustainability assessment used to evaluate and benchmark ESG performance (and inform indices/ratings).

● Cultural heritage

Sites, traditions and knowledge that hold cultural significance and require protection.

● Decant pond

Water storage area on a tailings facility surface, critical for stability and water management.

● Decarbonisation pathway

Time-bound plan to reduce emissions through operational, technological and supply chain measures.

● Disclosure Committee [Governance]

Management committee responsible for oversight of the accuracy and completeness of public disclosures.

● Double materiality

Assessment of ESG issues from both financial and impact perspectives.

● DSR (Dam Safety Review)

An independent review of a dam or tailings facility to assess whether its safety and management remain adequate and up to date.

● Due diligence (human rights)

Ongoing process to identify, prevent, mitigate and account for human rights impacts across operations and value chains.

● Effluent

Water discharged from operations, treated or untreated.

● EITI

Extractive Industries Transparency Initiative — global standard promoting open and accountable management of natural resources.

● Engineer of Record (EoR)

Engineer responsible for tailings facility design, performance and technical integrity.

Glossary of Terms (Alphabetical)

Continued

● ● **Envizi**

MMG's environmental data management and reporting system.

● **EPRP (Emergency Preparedness and Response Plan)**

A plan that sets out preparedness and response actions for credible tailings facility failure scenarios to protect people and minimise impacts.

● **FMEA (Failure Modes and Effects Analysis)**

A structured method for identifying potential failure modes and assessing the effects of those failures to prioritise risk controls.

● **Free, Prior and Informed Consent (FPIC)**

Right of Indigenous Peoples to give or withhold consent to projects affecting them, based on:

- Free: without coercion
- Prior: before decisions are made
- Informed: with full and accessible information
- Consent: through culturally appropriate decision-making processes.

● **Freeboard (TSF)**

Vertical distance between the tailings facility crest and water level.

● **Fugitive dust**

Airborne particles generated from operational activities such as transport or material handling.

● **Gender-based violence and harassment (GBVH)**

Harms and abuses directed at individuals based on gender, addressed through prevention, response and remedy mechanisms aligned with international standards.

● **GHG Protocol**

Global standard for measuring and reporting greenhouse gas emissions.

● ● **GRNS Committee**

Board Governance, Remuneration, Nomination and Sustainability Committee responsible for oversight of sustainability strategy, performance and disclosures.

● **GISTM**

Global Industry Standard on Tailings Management.

● **GRI (Global Reporting Initiative)**

An independent international organisation that develops the GRI Standards, the most widely used standards for sustainability reporting.

● **Grievance**

A concern or complaint raised by a stakeholder.

● **Grievance mechanism**

Formal process to receive, assess and resolve stakeholder concerns.

● **Groundwater drawdown**

Lowering of groundwater levels due to operational activities.

● **HKEx / HKEX (Hong Kong Stock Exchange)**

The Hong Kong Stock Exchange where MMG is listed, and the source of the HKEx ESG Reporting Code requirements.

● **HKFRS**

Hong Kong Financial Reporting Standards.

● **HKFRS S2**

The Hong Kong Financial Reporting Standard for climate-related disclosures (S2) used for HK climate reporting requirements.

● ● **Human Rights Framework**

MMG's system for identifying, managing and mitigating human rights risks.

● ● **Human Rights Policy**

MMG's policy outlining its commitment to respect internationally recognised human rights.

● **Human Rights-related Grievance**

A grievance related to an actual or potential adverse impact on human rights, whether or not it is explicitly framed in human rights terms.

● **Hydrometallurgy**

Metal extraction processes using aqueous chemistry (e.g. leaching and solvent extraction).

Glossary of Terms (Alphabetical)

Continued

● **ICMM Mining Principles**

Set of ten principles defining good ESG practice for mining companies.

● **ICMM Nature Position Statement**

ICMM commitment outlining expectations for nature stewardship, including biodiversity conservation, impact mitigation and transparent disclosure.

● **ICMM Performance Expectations**

Detailed operational requirements supporting implementation of the Mining Principles.

● **IFRS S1**

The ISSB standard setting general requirements for disclosure of sustainability-related risks and opportunities relevant to enterprise value.

● **IFRS S2**

The ISSB standard for climate-related disclosures, intended to be used with IFRS S1.

● **Independent Tailings Review Board (ITRB)**

External experts providing independent oversight of tailings facility safety.

● **Intensity (emissions)**

Emissions measured relative to production or activity levels.

● **International Labour Organisation (ILO)**

United Nations agency responsible for setting international labour standards and promoting rights at work.

● **IRMA (Initiative for Responsible Mining Assurance)**

A multi-stakeholder standard and independent third-party assessment system for responsible mining performance at mine sites.

● **ISO 31000**

International standard for risk management.

● ● **Land Access Strategy**

Framework guiding land access in alignment with legal and traditional rights.

● **Leachate**

Liquid that has passed through material and may contain dissolved contaminants.

● **LEAP Assessment**

Framework for assessing nature-related risks and opportunities:

- **Locate:** Identify interactions with nature
- **Evaluate:** Assess dependencies and impacts
- **Assess:** Determine risks and opportunities
- **Prepare:** Integrate findings into strategy and decision-making.

● **Life-of-mine (LOM) plan**

Integrated plan covering all phases of a mining operation from development to closure.

● **Local and Indigenous Peoples**

Distinct groups typically characterised by self-identification, collective attachment to land or resources, customary institutions, and, in the case of Indigenous Peoples, the use of an Indigenous language.

● **Local content**

Participation of local workforce and suppliers in operations.

● ● **Local Employment Plan**

Plan to support employment, training and economic participation of local communities.

● **Location-based emissions**

Scope 2 emissions based on the average emissions intensity of the electricity grid.

● **LTIF (Lost Time Injury Frequency)**

The frequency rate of lost time injuries (LTIs), commonly expressed per million hours worked.

● **Market-based emissions**

Scope 2 emissions based on purchased electricity contracts and instruments.

Glossary of Terms (Alphabetical)

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Materiality Assessment

Process used to identify and prioritise ESG issues relevant to MMG and its stakeholders.

● ● MMG People

MMG employees, officers, contractors (including subcontractors and their employees), apprentices, trainees and labour hire personnel.

● ● MMG Sustainability Framework

MMG's overarching sustainability framework comprising three pillars, focus areas and material topics, integrated into business planning and performance management.

● Mitigation hierarchy

Structured approach to managing impacts: avoid, minimise, rehabilitate or restore, and offset.

● Modern slavery

Severe exploitation where a person cannot refuse or leave due to coercion or deception.

● MSA (Modern Slavery Act)

The *Modern Slavery Act 2018* (Cth), which establishes mandatory reporting requirements for entities to disclose how they identify, assess and address modern slavery risks in their operations and supply chains.

● MSS (Modern Slavery Statement)

An annual statement submitted under the *Modern Slavery Act 2018* (Cth), detailing an organisation's modern slavery risks, due diligence processes, risk mitigation actions and assessment of effectiveness.

● NAF / PAF / NMD

Classification of waste rock based on acid-forming potential: Non Acid Forming (NAF), Potentially Acid Forming (PAF) and Neutral Mine / Metalliferous Drainage (NMD).

● Occupational illness

Illness resulting from workplace exposures or conditions, including acute or chronic health impacts arising from operational activities.

● Offset (biodiversity)

Actions taken to compensate for residual environmental impacts.

● PFMA (Potential Failure Modes Analysis)

A structured process to identify and describe credible ways a dam or tailings facility could fail, including how failure could progress to an uncontrolled release.

● Piezometer

Instrument used to measure water pressure within soil or structures.

● Progressive rehabilitation / closure

Rehabilitation activities undertaken progressively during operations.

● Provision

A liability of uncertain timing or amount.

● Public Security Forces

Government or state security personnel (e.g. police or military) engaged in or supporting site security operations.

● QFES (Queensland Fire and Emergency Services)

Queensland's fire and emergency services agency (referenced in some Queensland TSF emergency planning contexts).

● QPS (Queensland Police Service)

Queensland's police service (referenced in some Queensland TSF emergency planning contexts).

● QRA (Quantitative Risk Assessment)

A process that quantifies risk by estimating the likelihood of hazardous events and the consequences if they occur.

● Rehabilitation

Restoration of disturbed land to a safe, stable and productive condition.

● Responsible Tailings Facility Engineer (RTFE)

Engineer responsible for operational monitoring and management of tailings facilities.

Glossary of Terms (Alphabetical)

Continued

● Risk

An event or condition that may impact the achievement of objectives.

● ● Rules of Engagement

Defined instructions guiding how security personnel interact with individuals and respond to incidents, including escalation protocols and use of force.

● Safe closure

Process of transitioning a site to a stable, safe and sustainable post-operational state, including long-term monitoring, maintenance and risk management.

● Salient human rights issues

Human rights risks that are most severe based on scale, scope and ability to remedy.

● Sanctions and trade compliance

Controls ensuring adherence to applicable trade and regulatory requirements.

● SASB (Sustainability Accounting Standards Board)

Industry-specific standards for sustainability disclosures, now under ISSB stewardship and used as industry-based guidance alongside IFRS S1/S2.

● Scopes 1, 2 and 3 emissions

Classification of greenhouse gas emissions under the GHG Protocol:

- Scope 1: Direct emissions from owned or controlled sources
- Scope 2: Indirect emissions from purchased energy, reported using both location-based and market-based methods
- Scope 3: All other indirect emissions across the value chain.

● ● Security Management Plan (SMP)

Site-specific plan that identifies security risks, defines control measures and sets procedures for managing security operations in alignment with the Voluntary Principles on Security and Human Rights.

● Security provider screening

Assessment and training of security personnel to ensure alignment with human rights standards.

● Seepage

Movement of water through structures such as tailings facilities.

● Social Impact and Opportunities Assessment

Assessment process used to identify, manage and monitor social risks and opportunities across the life of a site, informing strategy, decision-making and investment priorities.

● S&P Global

A global provider of market intelligence and ESG products, including the Corporate Sustainability Assessment (CSA) used in sustainability evaluation.

● Sponsorship

Targeted support provided to achieve defined community, brand or stakeholder engagement objectives at local or corporate level.

● ● SSHE

Safety, Security, Health and Environment — internal framework guiding safety, security, health and environmental risk management and performance.

● Stakeholder

Individuals or groups that may affect, be affected by, or perceive themselves to be affected by MMG's activities.

● ● Stakeholder Grievance Management Procedure

MMG's formal process for receiving and resolving stakeholder complaints.

● Stakeholder mapping

Identification and analysis of stakeholders, their interests and influence.

● ● Supplier Code of Conduct

Standards expected of suppliers relating to ethics, human rights, environment and safety.

Glossary of Terms (Alphabetical)

Continued

● **Sunny-day / Rainy-day failure** Tailings facility failure scenarios modelled under normal operating conditions (sunny-day) and extreme precipitation events (rainy-day).

● **Tailings Storage Facility (TSF)**

Engineered structure used to store mine tailings.

● **TSF Active (Operating)**

A Tailings Storage Facility that is currently receiving tailings or is planned to receive tailings as part of ongoing operations. Active TSFs are managed in accordance with MMG's Tailings and Dams Management Standard throughout the operational phase of the facility lifecycle.

● **TSF Inactive (Temporarily Closed)**

A Tailings Storage Facility that is not currently receiving tailings but has not yet achieved approved closure objectives. Inactive TSFs remain subject to ongoing monitoring, maintenance and governance as part of MMG's managed TSF inventory.

● **TSF Closed**

A Tailings Storage Facility that has permanently ceased receiving tailings and achieved approved closure objectives in accordance with MMG's closure requirements, and is managed under post-closure monitoring arrangements where applicable.

● **TARP (Trigger Action Response Plan)**

Predefined thresholds and actions used to manage operational risks.

● **TCFD (Task Force on Climate-related Financial Disclosures)**

A framework for climate-related financial disclosures, structured around governance, strategy, risk management, and metrics and targets.

● **TNFD**

The Task Force on Nature Related Financial Disclosures, a framework for assessing and reporting on nature-related risks and opportunities.

● **TRIF (Total Recordable Injury Frequency)**

The number of recordable injuries per million hours worked.

● **UNGC (United Nations Global Compact)**

The world's largest corporate sustainability initiative, asking participants to align with 10 principles covering human rights, labour, environment and anti-corruption.

● **Use of Force Protocols**

Principles and procedures governing the appropriate, proportionate and lawful use of force by security personnel, aligned with international standards.

● **UNGPs (UN Guiding Principles on Business and Human Rights)**

UN-endorsed principles outlining expectations for governments and businesses to prevent, address and remedy business-related human rights harms.

● **Voluntary Principles on Security and Human Rights (VPSHR)**

Guidelines for managing security operations in a manner that respects human rights.

● **VPI (Voluntary Principles Initiative)**

A multi-stakeholder initiative that supports implementation of the Voluntary Principles on Security and Human Rights (VPSHR).

● **Water balance**

Accounting of water inflows, storage and outflows within an operation.

● **WIND ESG**

An ESG rating system/platform developed by Wind Information for China A-share and Hong Kong-listed companies, with transparent underlying data and ongoing updates.

● **Zero harm (environment)**

Commitment to preventing environmental incidents that result in significant or long-term impact, aligned with MMG's risk management approach.

● **Zero harm (social)**

Commitment to preventing significant adverse social impacts on communities and stakeholders, including human rights harms, through proactive risk identification, mitigation and engagement across the life of operations.

Materiality Descriptors

MMG's material topics reflect the most significant sustainability risks, impacts and opportunities for our business and stakeholders. They are reviewed through our materiality assessment process and organised under the three pillars of the MMG Sustainability Framework. The descriptors below provide a summary of what each topic covers and how it is applied across our reporting.

Capability and People Development

Focuses on investing in initiatives to develop, train and engage our people, and providing a workplace that respects human rights.

Circular Economy

Focuses on taking responsibility for how materials are extracted and produced, and promoting their responsible use and recovery after entering global markets to support the transition to a lower-carbon economy.

Culture of Care

Focuses on valuing and managing the health, safety and security of employees and contractors, including occupational health exposures, and embedding a strong safety culture through leadership, behaviours and processes that support physical and mental wellbeing.

Diversity and Inclusion

Focuses on creating a diverse and inclusive workplace culture by promoting gender and cultural diversity, workplace flexibility, and supporting broader inclusion initiatives.

Energy and Climate Change Action

Focuses on managing energy use and emissions across the business, reducing this footprint through targets and initiatives, and addressing climate-related risks to support the resilience of operations, infrastructure and surrounding communities.

Ethics, Transparency and Geo-Political Risk

Focuses on maintaining strong corporate governance, ethical business practices and transparency, meeting tax, regulatory and compliance obligations across operating jurisdictions, managing sovereign and geopolitical risks, and ensuring ongoing, culturally appropriate stakeholder engagement.

Local and Regional Development

Focuses on contributing to the social and economic development of local communities and Indigenous Peoples through investment, education, employment and other initiatives that support livelihoods, including economic transition opportunities, post-closure use of infrastructure, and management of the impacts of artisanal and small-scale mining.

Nature

Focuses on recognising our role as temporary stewards of the land and surrounding tenements, minimising impacts on the environment and biodiversity through a nature-positive approach, and embedding nature considerations into business planning, management plans and progressive rehabilitation.

Respect for Local Communities and Indigenous Peoples

Focuses on engaging with local communities and Indigenous Peoples in planning and decision-making across the life of our sites, respecting Indigenous rights and cultural heritage, upholding human rights, and aligning with the Voluntary Principles on Security and Human Rights.

Responsible Water Consumption

Focuses on recognising water as a strategically important resource with social, economic and environmental value, and managing its withdrawal, consumption, reuse and discharge efficiently and responsibly.

Materiality Descriptors

Continued

Supply Chain Resilience

Focuses on engaging and collaborating with suppliers and partners across the value chain to promote resilience, supporting local economies through local procurement, and embedding human rights considerations into systems, processes and supplier practices.

Tailings and Waste Management

Focuses on proactively managing tailings infrastructure and operational waste across the lifecycle of the site, including integrated design, communication and management of facilities, implementation of critical controls and risk assessments, transparent reporting, and innovative approaches to tailings and waste management.

Technology, Privacy and Cyber Security

Focuses on developing technology and adapting systems for an increasingly connected, digital environment, protecting digital infrastructure from cyber threats, and upholding information privacy.



Contact us

We welcome your comments on this report.
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