BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE

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Throughout the event, you may raise your questions in the Q&A box. Automatically translated subtitles in many languages are available through the captions button on the bottom left of your screen. The recording, summary, and documents will be made available on the event's website.
ENGLISH CAPTIONS CAN BE ACTIVATED BY CLICKING ON THE BUTTON ON THE LEFT-SIDE OF THE BOTTOM BAR ON THE SCREEN
Resolution adopted by the United Nations Environment Assembly on 2 March 2022

5/12. Environmental aspects of minerals and metals management

The United Nations Environment Assembly,


Recalling also its resolution 4/14 on innovative pathways to achieve sustainable consumption and production and the progress report therein and its resolution 6/5 on sustainable infrastructure and the progress report therein, and taking account of developments in resource efficiency, the circular economy, and mineral resource governance;

Aims to promote and support the implementation of the United Nations Sustainable Development Goals, as well as the achievement of the United Nations Paris Agreement on Climate Change and the implementation of the United Nations Convention to Combat Desertification;
AGENDA
Moderated by Arnold KREILHUBER | Director, Europe Office, UN Environment Programme

Opening
- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
- Elisa TONDA | Chief, Resources and Markets Branch, UN Environment Programme

Update on Preparations: Outcomes of the Regional Consultations and Presentation of the Background Document for the Intergovernmental Meeting on Minerals and Metals
- Charlotte NDAKORERWA | Programme Management Officer, UNEP

Stakeholders Perspectives
- National Focal Points
  - Gabriela ENCINA VERA | Chile
  - Khadjia DRAI | Senegal
- Tailings Safety | Claudia KAMKE | UNECE
- Public Participation | Teresa MAYR | Aarhus Convention Secretariat
- Sand | Pascal PEDUZZI | UNEP GRID-Geneva
- Youth | Gyubin HWANG | Children and Youth Major Group to UNEP
- Private Sector | Inga PETERSEN | Global Battery Alliance
- Civil Society | Jon Angelo BONIFACIO | International People’s Conference on Mining

Q&A

Closing
- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
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Arnold KREILHUBER
Director, Europe Office, UN Environment Programme
Moderator

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Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland

Co-Chair of the Process

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Charlotte NDAKORERWA
Programme Management Officer, UN Environment Programme

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Global Intergovernmental Meeting on UNEA resolution 5/12

Geneva Environment Network Briefing
23 August 2023
Mandates UNEA-5 Resolution 12 “Environmental Aspects of Minerals and Metals Management” (1)

The UNEA-5 resolution focuses on improving the environmental aspects of minerals and metals along their full life cycle and requests UNEP, subject to available resources, to:

*OP 2 “...convene transparent and inclusive intergovernmental regional consultations, including with relevant international organizations, with regional and multilateral environmental agreements, and with relevant stakeholders acting as observers, to feed into a global intergovernmental meeting, with the aim of developing non-prescriptive proposals to enhance the environmental sustainability of minerals and metals along their full life cycle, in line with the 2030 Agenda for Sustainable Development.”*
OP 3 Decides that the intergovernmental regional consultations will:

(a) **Take stock of existing activities and actions** (...) to enhance the environmental sustainability of minerals and metals and identify, among other things, best practices, responsible business practices, standards, guidelines, technical tools, environmentally sustainable technologies and the use of renewable energy in mining;

(b) **Identify opportunities for enhanced international cooperation**, including with a view to fostering capacity-building and technological, technical and scientific cooperation in the mining sector, in particular with developing countries;

(c) **Identify possible ways forward** for consideration by the Environment Assembly at its sixth session, as appropriate
Mandates UNEA-5 Resolution 12 “Environmental Aspects of Minerals and Metals Management” (3)

OP 4 Requests the Executive Director, (...) to strengthen scientific, technical and policy knowledge with regard to sand, and to support global policies and action regarding the environmentally sound extraction and use thereof;

OP 5 Also requests the Executive Director, (...), to compile a report on knowledge gaps in relation to the environmental aspects of tailings management;
Scope of the Resolution

**Excludes** mineral fuels

**Includes** the full life cycle of minerals and metals

*including extraction, on-site and off-site processing, refining, management of mining waste and tailings, rehabilitation of sites and closed or abandoned mines, manufacturing, and recycling*
Objectives and Expectations of the Global Intergovernmental Meeting

Objectives

- Address mandates of the resolution
- Development of non-prescriptive proposals from Member States reported at UNEA-6
- Co-Chairs’ Summary Report
- Progress Report of the UNEP Executive Director to UNEA-6

Expectations

- Active engagement through oral inputs on OP 2 and OP 3(a) and (b) to crystallize, refine, prioritize (where relevant) all non-prescriptive proposals made
- Incorporation of written inputs received on OP 2, OP 3 (a) and (b)
- Guidance provided by background document
Format and Structure of the Global Intergovernmental Meeting

Structure: Day 1 opening, intergovernmental discussion on non-prescriptive proposals and reception; Day 2 intergovernmental discussions on non-prescriptive proposals and closing

Format: Facilitated by co-chairs, hybrid, interpretation

Participants: Member States (National Focal Points); International Organizations, MEAs and accredited organizations as observers

Modalities of engagement: Registration required (closes 1 September); funding available for eligible economies in transition (1 delegate) and accredited MGS

<table>
<thead>
<tr>
<th>Meeting Date</th>
<th>Title</th>
<th>Meeting Location</th>
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</thead>
<tbody>
<tr>
<td>07-08 September 2023</td>
<td>Global Intergovernmental Meeting</td>
<td>Geneva, Switzerland International Conference Center</td>
</tr>
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</table>
• **Guidance** for global intergovernmental meeting on UNEA 5/12

• Importance of **mining for sustainable development** while addressing the three environmental planetary crises

• Overview of **five intergovernmental regional consultations**

• **Written submissions**
Towards the Development of Non-Prescriptive Proposals

Results from intergovernmental regional consultations:

• 38 non-prescriptive proposals emerged from five intergovernmental regional consultations + several written submissions

• Complementarity and convergence across some regional outcomes/proposals, enabling their combination and analysis thro’ 24 non-prescriptive proposals

• Grouped thematically in Background Document/Analysis:
  A) Policies and Tools
  B) Minerals and Metals along the Entire Life Cycle
  C) Platforms for International Cooperation
<table>
<thead>
<tr>
<th>Time</th>
<th>Thursday 7 September 2023</th>
<th>Friday 8 September 2023</th>
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<tbody>
<tr>
<td>8:00 - 10:00</td>
<td>Regional / Political Groups Meetings</td>
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<td></td>
<td>Opening (Plenary)</td>
<td>10:00-11:00 - Recap of Day 1 World café discussions</td>
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<td></td>
<td>- Opening of the meeting.</td>
<td>Discussion on non-prescriptive proposals (World Café breakouts)</td>
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<td>- Adoption of the agenda.</td>
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<td>- Presentation of background document</td>
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<td>- Outcomes from regional consultations</td>
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<td>- Technical Panel Discussion</td>
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<tr>
<td>10:00 - 13:00</td>
<td>LUNCH BREAK</td>
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<td>Side event</td>
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<tr>
<td>13:00 - 15:00</td>
<td>Discussion on non-prescriptive proposals (World Café breakouts)</td>
<td>Closing (Plenary)</td>
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<td>- Report back from the World Café discussions.</td>
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<tr>
<td>15:00 - 18:00</td>
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<td>Coffee Break</td>
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<td>- Consideration of a draft Co - Chair’s summary of the meeting.</td>
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<td>- Other matters.</td>
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<td>- Close of the meeting.</td>
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<tr>
<td>18:00 – 20:00</td>
<td>Swiss reception</td>
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</table>
Additional information

List of National Focal Points:
https://www.greenpolicyplatform.org/guidance/list-unea-resolution-512-national-focal-points-0

Upcoming events to raise awareness of the resolution:

- Briefing to the UN Environment Management Group on Resolution 5/12 on 30 August 2023 (open to EMG members only)

- Joint Event with the World Resources Forum on "transforming mineral and metal value chains for enhanced sustainability" on 6 September 2023, 16.30-18.00 CEST in Geneva, Switzerland, International Conference Center, Plenary Room A.
Resources

UNEA resolution 5/12 on environmental aspects of minerals and metals management:

UNEA 5/12 implementation webpage:
https://www.greengrowthknowledge.org/initiatives/environmental-aspects-minerals-and-metals-management

Background document for the Global Intergovernmental Meeting:

Written submissions by Member States:

Written submissions by Accredited Organizations:
https://www.greenpolicyplatform.org/guidance/submission-written-inputs-accredited-organisations-unea-512-process

Summary reports of regional consultations:
https://www.greenpolicyplatform.org/initiatives/environmental-aspects-minerals-and-metals-management/Intergovernmental%20meetings
Other Resources


UNEP’s work on extractives: [https://www.unep.org/explore-topics/extractives](https://www.unep.org/explore-topics/extractives)


Compendium of papers prepared for the Global Tailings Review: [https://globaltailingsreview.org/compendium/](https://globaltailingsreview.org/compendium/)
Thank you
### Format and Proposed Structure of the Global Intergovernmental Meeting

#### 07 September 15:00-16:30 (World Café Style Informal Breakout Groups)

<table>
<thead>
<tr>
<th>Time</th>
<th>Room A</th>
<th>Room B</th>
<th>Room C</th>
</tr>
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</table>
| 15:00-15:30| Global assessment of existing instruments   | International metal certifications  
- Global Sand Observatory | - Promote SCP and circular economy.  
- CB, TA, transfer of know-how and support national implementation  
- Environmental peer reviews |
| 15:30-16:00| - Promote SCP and circular economy.  
- CB, TA, transfer of know-how and support national implementation  
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- Global Sand Observatory | - Promote SCP and circular economy.  
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# Format and Proposed Structure of the Global Intergovernmental Meeting

## 07 September 16:30-18:00 (World Café Style Informal Breakout Groups)

### B. Minerals and metals along the entire life cycle

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<td>16:30-17:00</td>
<td>- Global mapping and classification of tailings facilities</td>
<td>- Implementation of Global Industry Standard for Tailings Management</td>
<td>- Inter-agency collaboration on mine closure</td>
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<tr>
<td></td>
<td>- Inventory of abandoned mine sites</td>
<td>- Manual for design and construction of tailings facilities</td>
<td>- Research on mine closure finance</td>
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<td></td>
<td>- Technical guideline and standards for safe and environmentally sound management of tailings facilities</td>
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#### 08 September 11:00-13:00 (World Café Style Informal Breakout Groups)

**C. Platforms for international cooperation**

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<tr>
<td>11:00-11:40</td>
<td>- Open-ended/Technical working Group</td>
<td>- Cooperation between international organisations</td>
<td>- Explore international agreement on mining</td>
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<td>- UN-supported multi-stakeholder dialogues</td>
<td>- Collaboration with the Minamata Convention</td>
<td>- International SDGs mineral programme</td>
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<td>- LAC network on mining and sustainability</td>
<td>- Collaboration with CBD on deep sea mining environmental safeguards</td>
<td>- Implementation of Escazu Agreement</td>
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<td>11:40-12:20</td>
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Closing
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STAKEHOLDERS PERSPECTIVES

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Gabriela ENCINA VERA
Chief of Sustainable Development Division, Ministry of Mining, Chile

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Closing
- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
Khadija Drame
Deputy Coordinator of Legal Affairs Unit, Ministry of the Environment and Sustainable Development, Senegal

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BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

Claudia KAMKE
Environmental Affairs Officer, Convention on the Transboundary Effects of Industrial Accidents, UNECE

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE
UNECE’s Perspectives on Tailings Safety and Sustainable Resource Management

Presentation by Ms. Claudia Kamke, Industrial Accidents Convention
Prepared in cooperation with Mr. Harikrishnan Tulsidas, Sustainable Energy Division

Geneva, 23 August 2023
Key Challenges

• **Critical Raw Materials (CRM)**: Increasing demand for CRMs is projected, creating potential shortages, trade dependency, geopolitical challenges, and increasing TMFs risks.

• **Hazards and Risks of Tailings Management Facilities (TMFs):** Lack of knowledge of TMFs (number, location, state, condition), transboundary effects of TMFs, and effective management of TMF risks for prevention.

• **Natural Hazards Triggering Technological Disasters (NATECH) Events:** Natural hazards, frequent and severe weather events of climate change increase risk of TMF failures & transb. impacts.

Sources:
2. UNEP, 2017
From Waste to Wealth: How UNFC and UNRMS Can Transform the Mining and Processing Industries

• The United Nations Framework Classification for Resources (UNFC) and the United Nations Resource Management System (UNRMS) are innovative tools for sustainable resource management that can transform the mining and processing industries.

• UNFC and UNRMS can help reduce waste, use tailings and other secondary sources, and create value-added products.

• UNFC and UNRMS can support the 2030 Agenda and the circular economy by promoting resource efficiency, environmental sustainability, social responsibility and green financing.

• ECOSOC endorses UNFC and UNRMS for global application, promoted by the European Union, the African Union and many countries worldwide.

• Visit: https://unece.org/sustainable-energy/sustainable-resource-management
UNECE Industrial Accidents Convention

Guidance & tools

- TMF Safety Guidelines
- Roadmap for Action on Tailings
- Decision for Mine Tailings Safety
- TMF Safety Methodology

Practical application

- Inventories & Maps of 580 TMFs in the Danube River Basin & Central Asia
- On-site trainings at TMFs to build capacity & understand risks
- Creation of Interinstitutional Working Groups on Tailings Safety and the Prevention of Accidental Water Pollution (IIWGs) in Central Asia
- Subregional/transboundary cooperation on tailings safety
2030 UNECE Road Map for Action on Tailings Safety

2023–2024
- Promote understanding of the risks associated with tailings
- Review and update existing measures and legislation
- Use existing and create new working groups and national coordination mechanisms
- Report tailings as a hazardous activity (10th reporting cycle)

2025–2026
- Prepare an overview: tailings facilities in the UNECE region, possible existing threats, risks and hot spots
- Improve shared understanding and risk management across countries
- Facilitate multi-stakeholder dialogue on existing benefits and challenges in the UNECE region
Key messages: From regional to global consultations

• **Life-cycle approach & sustainable resource management** are important to manage the green transition and achieve SDGs

• Need for **global mapping and assessment of existing legal & policy instruments** that apply to environmental aspects of minerals and metals (and related guidelines and tools, e.g. UNFC & 2030 Road Map)

• **Strengthening safety & governance and preventing accidents** at all TMFs, including abandoned, active, inactive, future, etc., are key for protecting people, environment & economies

• Important to take **integrated risk management** approach, including to address impacts of climate change & natural disasters (Natech risks), for enhancing safety measures & reducing risks

• Need for more **cooperation and coordination** to address TMF hazards and risks, including transboundary risks, at national, cross-border, regional & multistakeholder levels (e.g. IIWGs)

• Need to fill **technical knowledge** gaps through TMF mapping, risk assessment, capacity building & IO cooperation

• **Reporting & regular information exchange** on lessons learned and good practices across countries & regions are valuable for respective environmental processes
Thank you for your attention

Claudia Kamke
Environmental Affairs Officer
Convention on the Transboundary Effects of Industrial Accidents, Environment Division
claudia.kamke@un.org

For more information:
www.unece.org/env/teia

Harikrishnan Tulsidas
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Sustainable Energy Division
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For more information:
https://unece.org/sustainable-energy
Additional information & links
United Nations Framework Classification for Resources (UNFC)

- Applicable across resources and countries
- Includes environmental, social, and economic dimensions
United Nations Resource Management System

Based on 12 Fundamental Principles

- State rights and responsibilities in the management of resources
- Responsibility to the planet
- Integrated and indivisible management of resources
- Social contract on natural resources
- Service orientation
- Comprehensive resource recovery
- Value addition
- Circularity
- Health and safety
- Innovation
- Transparency
- Continuous strengthening of core competencies and capabilities
Industrial Accidents Convention

- Adopted 1992, entered into force 2000, 42 Parties in UNECE region
- Purpose: To protect humans and the environment against the effects of industrial accidents
- Scope: Activities (including TMFs) that involve a hazardous substance listed in Annex I and that are capable of causing transboundary effects
- Key components: Identification/Notification, Prevention, Preparedness, Public Information/Participation, Response, Transboundary cooperation
Safety Guidelines and Good Practices for Tailings Management Facilities

• Developed by the Joint Expert Group on Water and Industrial Accidents (JEG)

• Aim to reduce frequency and severity of TMF failures

• Provides safety principles and recommendations for governments, competent authorities, TMF operators

• Includes aspects related to i) Pre-construction and construction, ii) Operation and management, iii) Facility inspections, iv) Identification, assessment, management of abandoned sites, iv) Emergency planning

• TMF Methodology was developed to support countries in the practical application of the guidelines
Methodology for improving TMF safety

• Created by German Federal Environment Agency (UBA) in 2016 under the project on improving the safety of TMFs in Ukraine (2013-2015), to operationalize the UNECE Safety Guidelines

• Refined in 2020 under the project on Capacity development to improve safety conditions of tailings management facilities in the Danube River Basin

• Practical tool to be applied by operators and competent authorities to reduce tailings risks

• Consists of 3 components:
  1. Tailings Hazards Index (THI) & Tailings Risk Index (TRI)
  2. Checklist methodology
  3. Measure Catalogue

• Evaluation Matrix for the TMF safety level from the checklist methodology
2030 Road map for action to strengthen mine tailings safety within and beyond the UNECE region

- Developed by Industrial Accidents Conventions’ Bureau and UNECE Secretariat, in consultation with OECD, OSCE, UNDRR, UNEP, UNDP and EU Joint Research Centre

- Purpose: i) Defines five key objectives to strengthen mine tailings safety, ii) Provides direction, actions and priorities for countries to achieve the key objectives, iii) Highlights activities that UNECE, in cooperation with partner organizations, can conduct to support countries in implementation

- Objectives: i) Understanding TMF-related risks within and across national borders, ii) Addressing TMF risks through policy and governance, iii) Prevention and preparedness for accidental water pollution from TMFs to ensure water quality, iv) Prevention of NATECH events and adaptation to climate change, v) Exchange of information and knowledge and capacity-building
Decision 2020/1 on strengthening mine tailings safety in the United Nations Economic Commission for Europe region and beyond

- In 2020, the Industrial Accidents Convention COP adopted Decision 2020/1 on strengthening mine tailings safety in the UNECE region and beyond

- Built on outcomes of the Seminar on mine tailings safety in the UNECE region and beyond (online, 1 December 2020)

- Requests Parties (and invites other countries) to increase efforts to strengthen tailings safety and prevent failures, in view of elevated risk of such accidents posed by increasing frequency and severity of extreme weather events due to climate change

- Reminds Parties that identification of hazardous activities and notification processes shall entail TMFs

- Urges Parties (and invites other countries) to facilitate the application of the UNECE Safety Guidelines for TMFs, TMF Methodology and good practices in the ECE region through capacity development, technology/knowledge transfer, sharing of experiences and lessons learned

- Calls on Parties to improve inter-institutional and stakeholder coordination at the national and local levels and across borders, while increasing transparency for communities and other stakeholders on how these risks are taken into account
Online Toolkit & Training for Improving Tailings Safety

- Promotes knowledge of tailings safety through online training on the application of relevant safety guidelines and methodology

Consists of:
- Reference information on the safety of tailings
- Practical training → 3-step approach
- Brief information on UNECE work related to tailings and partners
- Further reading (main reports and links)
- Available in ENG and RUS

Includes tailings safety training video (ENG, RUS)
TMF mapping: Central Asia

- TMF inventory project under the UNECE Industrial Accidents Convention thanks to funding by Switzerland, Germany and the EU
- 237 TMFs identified across Central Asia with 59 or 25% capable of causing transboundary effects
- All TMFs assessed using the TMF Methodology, incl. Tailings Hazard (THI) and Tailings Risk (TRI) Indexes

Syr Darya River basin: 61 TMFs with 33 capable of transboundary effects (19 KYR, 10 TAJ, 4 UZB)

Kazakhstan: 121 TMFs with 7 capable of transboundary effects

Kyrgyzstan: 62 TMFs with 38 capable of transboundary effects

Tajikistan: 13 TMFs with 4 capable of transboundary effects

Uzbekistan: 41 TMFs with 10 capable of transboundary effects
AGENDA
Moderated by Arnold KREILHUBER | Director, Europe Office, UN Environment Programme

Opening
- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
- Elisa TONDA | Chief, Resources and Markets Branch, UN Environment Programme

Update on Preparations: Outcomes of the Regional Consultations and Presentation of the Background Document for the Intergovernmental Meeting on Minerals and Metals
- Charlotte NDAKORERWA | Programme Management Officer, UNEP

Stakeholders Perspectives
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- Civil Society | Jon Angelo BONIFACIO | International People's Conference on Mining

Q&A

Closing
- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

STAKEHOLDERS PERSPECTIVES
Public Participation

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE
BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

Teresa MAYR
Legal Officer, Aarhus Convention Secretariat

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE
Public participation in support of sustainability of the management of minerals and metals
- role of the Aarhus Convention -
I. Introduction: the Aarhus Convention

Convention on Access to Information, Public Participation in Decision-making and Access to Justice in Environmental Matters

- **Adoption**: 1998, Aarhus, Denmark
- **Entry into force**: 30 October 2001
- **Parties**: 47 (46 States and EU)
- **Accession**: Open globally to any UN Member State
- **Model for other regions**: Escazú Agreement

Three core pillars of the Aarhus Convention

- **The Right to Information**: incl. in international forums
- **The Right to Participate**: Obligation to protect environmental defenders
- **The Right to Justice**: Obligation not to discriminate based on citizenship, nationality or domicile
II. Public Participation in the domestic/transboundary context – articles 6, 7 & 8

Public must have the opportunity to effectively participate in:

1. Decision-making to permit specific activities which may have a significant effect on the environment
   - E.g. exploitation licenses

2. During the preparation of plans, programmes & policies relating to the environment
   - E.g. on sustainable management of minerals

3. During the preparation of draft legislation regarding the environment
   - E.g. draft legislation on mining

The Aarhus Model of Public Participation

1. Early, adequate and effective notice
   ↓
2. Reasonable time-frames when all options are open
   ↓
3. Access to all relevant information
   ↓
4. Public entitled to comment/be heard
   ↓
5. Due account to be taken of public participation
   ↓
6. Prompt notice of decision
   ↓
7. If operating conditions are updated or reconsidered, repeat as appropriate
III. Public Participation in International Forums – article 3 (7)

- **Article 3 (7):** Parties “shall promote” the principles of the Convention in international environmental decision-making (UNEA; MEAs, including their implementation) and within the framework of international organizations in matters relating to the environment.

- **Almaty Guidelines on Promoting the Application of the Principles of the Aarhus Convention in International Forums (2005):**

  1. the development, modification & application of relevant **rules and practices** applied within international forums, e.g. access to documents and meetings, statements by observers.
  2. The treatment of relevant **substantive issues** within those forums.
For further information please contact:

https://unece.org/environmental-policy-1/public-participation

Aarhus Convention secretariat email:
public.participation@un.org

Thank you for your attention!
AGENDA
Moderated by Arnold KREILHUBER | Director, Europe Office, UN Environment Programme

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- Civil Society | Jan Angelo BONIFACIO | International People’s Conference on Mining

Q&A

Closing
- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
Support to EA-5, res.12 point 4
Strengthen scientific, technical and policy knowledge with regard to sand
In 2020, the amount of man-made building material, exceeded global living biomass

Global human-made mass exceeds all living biomass

https://www.nature.com/articles/s41586-020-3010-5?s=09

We are extracting 50 billion tons of sand and gravels per year
Sand: a strategic material for both ecosystems and human infrastructures, including energy transition

Environment
1. Marine
2. Deltas
3. Beach
4. River
5. Subsurface

Infrastructures
6. Land use
7. Coastal use
8. Urban infrastructures
9. Industrial use
10. Energy

Graphism: Peduzzi, UNEP/GRID-Geneva, 2022
Sand, rarer than one thinks

Sand and gravel are mixed worldwide and account for the largest volume of solid material extracted globally. Further to the human processes over thousands of years (Silva, 2008), they are now being extracted at a rate greater than their renewal. Furthermore, the volume being extracted is having a major impact on rivers, deltas and coastal and marine ecosystems (Figure 1), results in loss of land through river or coastal erosion, lowering of the water table and decreases in the amount of sediment supply. Despite the colossal quantities of sand and gravel being used, our increasing dependence on them and the significant impact that their extraction has on the environment, this issue has been mostly ignored by policy makers and remains largely unknown by the general public.

Why is this issue important?

Globally, between 47 and 59 billion tonnes of material is mined every year (Steinberger et al., 2016). Sand and gravel, hereafter known as aggregates, account for both the largest share (the fastest extraction increase (Krausemann et al., 2009). Interestingly, although more sand than any other material, reliable data on their extraction is certain developed countries and recent years (Krausemann et al., 2009). The absence of global data on aggregates mining assessment very difficult and has contributed to the lack of awareness about this issue.

One way to estimate the global use of aggregates indirectly is through the production of cement (concrete is made with cement, water, sand and gravel). The production of cement in certain countries and reached 3.7 billion tonnes in 2012 (USGS, 2014). For each tonnes of industry needs about 6 to 7 times more tonnes of sand and gravel (USGS, 2013a) of aggregates for concrete can be estimated at 25.9 billion to 29.6 billion tonnes a year. This represents enough concrete to build a wall 27 metres high by 27 metres wide around the world each year.
International Resolutions and Motion

UNEA 5.2, res. 12.

4. Requests the Executive Director, through the Global Resource Information Database (GRID-Geneva), to strengthen scientific, technical and policy knowledge with regard to sand, and to support global policies and action regarding the environmentally sound extraction and use thereof;

Mineral resource governance

The United Nations Environment Assembly,

Recalling the principles and purposes of the Charter of the United Nations,

Recalling also the Stockholm Conference on the Human Environment 1972, its Action Plan and recommendations 50 on mining and mineral resources,

Recognizing General Assembly resolution A/RES/39/77 of 24 October 1982, entitled “World Charter for Nature” that states that “non-renewable resources (…) shall be exploited with restraint, taking into account their abundance, rational possibilities of conserving them for consumption, and the compatibility of their exploitation”;

Recalling the Berlin II Guidelines 2002 and their Fundamental Principles for the Mining Sector, which states that governments, mining companies and mineral industries should recognize environmental management as a high priority, establish environmental accountability, and ensure the participation of interested parties;

Recalling the Johannesburg Plan of Implementation of the World Summit on Sustainable Development, adopted on 4 September 2002, which recognized that minerals are essential for modern living and sustainable development;

Recalling also the outcome document of the United Nations Conference on Sustainable Development, entitled “The Future We Want”, General Assembly resolution 68/26, adopted on 20 July 2012, which stresses the major contribution of minerals and metals to modern societies and which calls upon governments and businesses to promote the continuous improvement of accessibility and transparency;

Recalling United Nations General Assembly resolution A/RES/70/1 of 25 September 2015, entitled “Transforming our world: the 2030 Agenda for Sustainable Development”, in particular Sustainable Development Goal 7 “Affordable and clean energy” and Sustainable Development Goal 12 “Responsible consumption and production” and reminding the important contributions of mining to their achievement;

Noting that clean technologies, highly depending on metals and minerals, are important to combat climate change issues,

* The present document is being issued without formal editing.
Global Sand Observatory

**ORGANISATIONAL ACTIVITIES (Bureau)**
- Coordination
- Networking (maintenance, growth, partnerships)
- Communication (media, web, webinars, conferences)
- Integration and dissemination of contents (database, web)
- Fund raising
- Advocacy

**SCIENCES**
Monitoring and mapping
- Monitoring extraction, impacts and use
- Mapping demand and resources
- Marine Sand watch

**POLICY (and standards)**
Governance & Best practices
- Industry standards (building, extractives)
- Policy – regulation, Environmental mgt
- Finances + development

**TECHNOLOGY**
Technical solutions
- Harvesting existing solutions
- Innovation
- Dissemination
- Reducing, replacing, substitution, reuse, restores, recycle...
Steering committee -> GSO Secretariat
Advisory board -> GSO Secretariat

Sand & Sustainability Network

WG-1 Monitoring & Mapping
WG-2 Governance & Policy
WG-3 Innovation & Cutting Edge Research

The Sand & Sustainability
Strategic partners
Economy, Industry and Civil society
Launch at the WRF’23
On 6 September 2023
AGENDA
Moderated by Arnold KREILHUBER | Director, Europe Office, UN Environment Programme

Opening
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Q&A

Closing
- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
Shaping a Sustainable Future:
Youth Engagement and Intergenerational Equity in Minerals and Metals Management

23 August 2023

Gyubin Hwang
Global Coordinator,
Children and Youth Major Group to UNEP
The future of mineral resource governance skews young and from emerging economies

1. Future generations:
   - Implementing policies that reduce resource depletion and environmental degradation, providing a healthy and resource-secure future.
   - Prioritizing sustainable resource governance and energy transition policies that safeguard the planet for future generations.

2. Global South:
   - Recognizing and addressing historical inequities in resource use and natural impact, with a focus on sustainable development in the Global South.
   - Co-developing successful strategies and technologies with a focus on innovations in renewable energy and resource management.

Empowering key groups
“... developing non-prescriptive proposals to enhance the environmental sustainability of minerals and metals along their full life cycle...”

<table>
<thead>
<tr>
<th>Role of youth</th>
<th>Idea</th>
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<tr>
<td>Advocates for Circular Economy Principles</td>
<td>Encourage youth-led initiatives to promote circular economy principles in local communities, businesses, and industries.</td>
<td>Youth can influence the way resources are managed throughout their lifecycle thereby reducing environmental impact.</td>
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<td>Drivers of Technological Innovation</td>
<td>Develop innovation challenges and research grants specifically for young researchers focused on sustainable technologies in minerals and metal management.</td>
<td>Harnessing innovation and technology development to enhance the environmental sustainability of minerals and metals by reducing energy use, emissions, and waste.</td>
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<td>Negotiators and Drivers of Policy</td>
<td>Create platforms for young people to engage with policymakers and industry leaders, such as youth representation on governance boards and public consultations.</td>
<td>We can directly influence policies and practices that determine how minerals and metals are managed, driving changes that enhance environmental sustainability.</td>
</tr>
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</table>
The course ahead: Implications for a commodities-heavy future

**Technological Feasibility**
What role can young innovators play in developing technologies that make a commodity-heavy future more sustainable and less environmentally damaging?

**Economic Implications**
What strategies can be implemented to ensure young people benefit economically from a commodity-heavy future, while also promoting sustainability?

**Energy Security**
How can energy security be maintained during the transition? Are there risks associated with dependency on certain types of natural resources and mineral commodities?

**Policy and Regulatory Support**
What kinds of policies and regulatory frameworks are needed to support a more resource-efficient economy even as the global population approaches 10b?

**Timeframe**
How can we incorporate a youth perspective in planning and decision-making to ensure sustainability over the long run?

**Public Perception and Acceptance**
What role can young people play in shifting public acceptance towards less resource-intensive lifestyles and economies?

**Equity and Justice**
What steps can be taken to promote justice for young people in regions that bear the brunt of resource extraction and related environmental impacts?

**Global Cooperation**
How can young people contribute to fostering global cooperation in managing a commodity-heavy future? What platforms or mechanisms can facilitate youth participation in international dialogues on resource governance?

---

**Techno-economic**  **Key considerations**  **Socio-political**
AGENDA
Moderated by Arnold KREILHUBER | Director, Europe Office, UN Environment Programme

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Q&A

Closing
- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

Inga PETERSEN
Executive Director, Global Battery Alliance

23 AUGUST 2023 | 11:00 - 12:30 CEST | IEH II & ONLINE
The Global Battery Alliance
Battery Passport

August 2023
The GBA is the global public-private platform to enable sustainable EV and storage batteries by 2030

About

The Global Battery Alliance (GBA) is a multi-stakeholder, pre-competitive partnership of 120+ businesses, governmental and non-governmental organizations founded in 2017 to help establish a sustainable battery value chain by 2030.

Mission

- Establish trusted criteria, data, and benchmarks for a sustainable and transparent battery market
- Mobilize collective action to improve the environmental, social, and governance footprint across the value chain
- Communicate with one voice and with strong media visibility

Vision

The GBA vision is that batteries power sustainable development towards three overarching outcomes:

1. Establish a circular battery value chain as a major driver to achieve the Paris Agreement
2. Establish a low-carbon economy in the value chain, create new jobs and additional economic value
3. Safeguard human rights and economic development consistent with the UN Sustainable Development Goals

Goals

To realize the vision, the GBA pursues two sets of initiatives:

- Establishing a digital Battery Passport: comprehensive lifecycle KPI for “sustainable” batteries to measure, track and improve value chain performance, including via a “quality seal”
- Establishing partner-led coalitions to address three challenge areas across the battery lifecycle
  - Responsible sourcing
  - Circular economy
  - Carbon abatement potential of batteries

SOURCE: Global Battery Alliance
Today over 140+ organizations support the GBA

Public organizations

NGOs and foundations

Technology Partners

Industry and business

In collaboration with

Supported by

Source: Global Battery Alliance
The GBA community has developed 10 Guiding Principles for a sustainable battery value chain

<table>
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<th>Establish a circular battery value chain as a major driver to achieve the Paris Agreement</th>
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<th>Establish a low carbon economy in the value chain, create new jobs and additional economic value</th>
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Source: Global Battery Alliance
What does GBA actually do?

**Action partnerships:** Battery Passport

The Battery Passport is the key instrument to enable the development a sustainable, circular, and just battery value chain delivering on GBA’s 10 principles by monitoring the sustainability performance based on data **U**nderstandable, **S**tandardized, **A**ccurate, **D**ifferentiating, **A**uditable, **C**omprehensive and providing insights to **t**rigger improvement action.

---

**Indicators follow physical structure**

- Battery Housing
- Module
- Junction Box
- Electric Intercon.
- Thermal Manag-t

**GBA community develops indicators**

- Indicator 1
- Indicator 2
- Indicator 3
- Indicator 4

- Sustainability indicators
  - Environment
  - Society
  - Governance
  - Economics
  - GHG
  - Child Labor

- 29 indicator developed, **focus on 2** of them now

**GBA manages access to data**

GBA BP is to assure proper data aggregation and representation mechanisms, e.g.:

- **OEM** inspects specific model/product types produced and explore its end-to-end value-chain view to discover bottlenecks in emissions and data compliance of suppliers;
- **NGOs and Civil Society** access the aggregated information on GBA Battery Passport KPIs and allow drill down, maintaining the privacy of participating partners intact.

---

Source: Global Battery Alliance
We have **successfully launched** the world's first Battery Passports in Davos.

**Rulebooks and PoC learnings**

**Tangible results**

<table>
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<th>Battery</th>
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**Two high-level presentations**
Major high-level learnings from the pilots are published on the GBA website

1. **Product scoring** against qualitative indicators needs to be differentiated, and risk saliency based to unlock issues across the value chain.

2. **Data governance** requires significant regulatory action to complement general data governance discussion. The GBA is uniquely placed to leverage its convening power for data governance discussion and policy development.

3. **New fields of competition.** The GBA Battery Passport can enable new ways of product competition based on sustainability performance.

4. **Technology readiness.** General readiness of Track & Trace instruments will need to be complemented with interoperability as a core component of business models.

5. **Establishing trust.** The value of the BP lies not only in measuring sustainability performance or how to implement it technologically. Establishing a trust-worthy interplay among all ecosystem participants proved to be the most significant challenge to address.
AGENDA

Moderated by Arnold KREILHUBER | Director, Europe Office, UN Environment Programme

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Jon Angelo BONIFACIO
Spokesperson,
International People's Conference on Mining

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BRIEFING ON THE GLOBAL INTERGOVERNMENTAL MEETING ON MINERALS AND METALS

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AGENDA

Moderated by Arnold KREILHUBER | Director, Europe Office, UN Environment Programme

Opening

- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
- Elisa TONDA | Chief, Resources and Markets Branch, UN Environment Programme

Update on Preparations: Outcomes of the Regional Consultations and Presentation of the Background Document for the Intergovernmental Meeting on Minerals and Metals

- Charlotte NDKORERWA | Programme Management Officer, UNEP

Stakeholders Perspectives

- National Focal Points
  - Gabriela ENCINA VERA | Chile
  - Khadija DRAH | Senegal
- Tailings Safety | Claudia KAMKE | UNECE
- Public Participation | Teresa MAYR | Aarhus Convention Secretariat
- Sand | Pascal PEDUZZI | UNEP GRID-Geneva
- Youth | Gyu-bin HWANG | Children and Youth Major Group to UNEP
- Private Sector | Inga PETERSEN | Global Battery Alliance
- Civil Society | Jon Angelo BONIFACIO | International People’s Conference on Mining

Q&A

Closing

- Martine ROHN-BROSSARD | Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland
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CLOSING

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Martine ROHN-BROSSARD
Deputy Head, International Affairs Division, Federal Office for the Environment, Switzerland

Co-Chair of the Process

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