

TAG Report

October 2022 - April 23



RESOURCE MANAGEMENT WEEK 2023

ASSURING SUSTAINABILITY IN RESOURCE

MANAGEMENT



UNECE



- Technical Advisory Group (TAG)
 - Vision/Mission
 - Mandated Purpose
 - Structure
 - Membership

- Work Group Activities Summaries
 - Overview of activities & achievements since EGRM-13
- UNFC/UNRMS documents updates – timeline
- Conclusions



■ Vision

- TAG vision is to be the premier technical resource expertise repository for UNFC and UNRMS with the primary goal of achieving Sustainable Development Goals (SDG'S) through implementation of UNFC/UNRMS globally as a total resource classification and management system which can be used by a variety of interested entities to make policy and business decisions on energy.

■ Mission

- TAG mission is to proactively work with WG's, Bureau, country stake holders, develop UNFC specifications and guidelines, conduct pilot studies, hold workshops, promote global uptake of UNFC and UNRMS in interested countries, provide advice on the realization of Sustainable Development Goals by using UNFC/UNRMS.

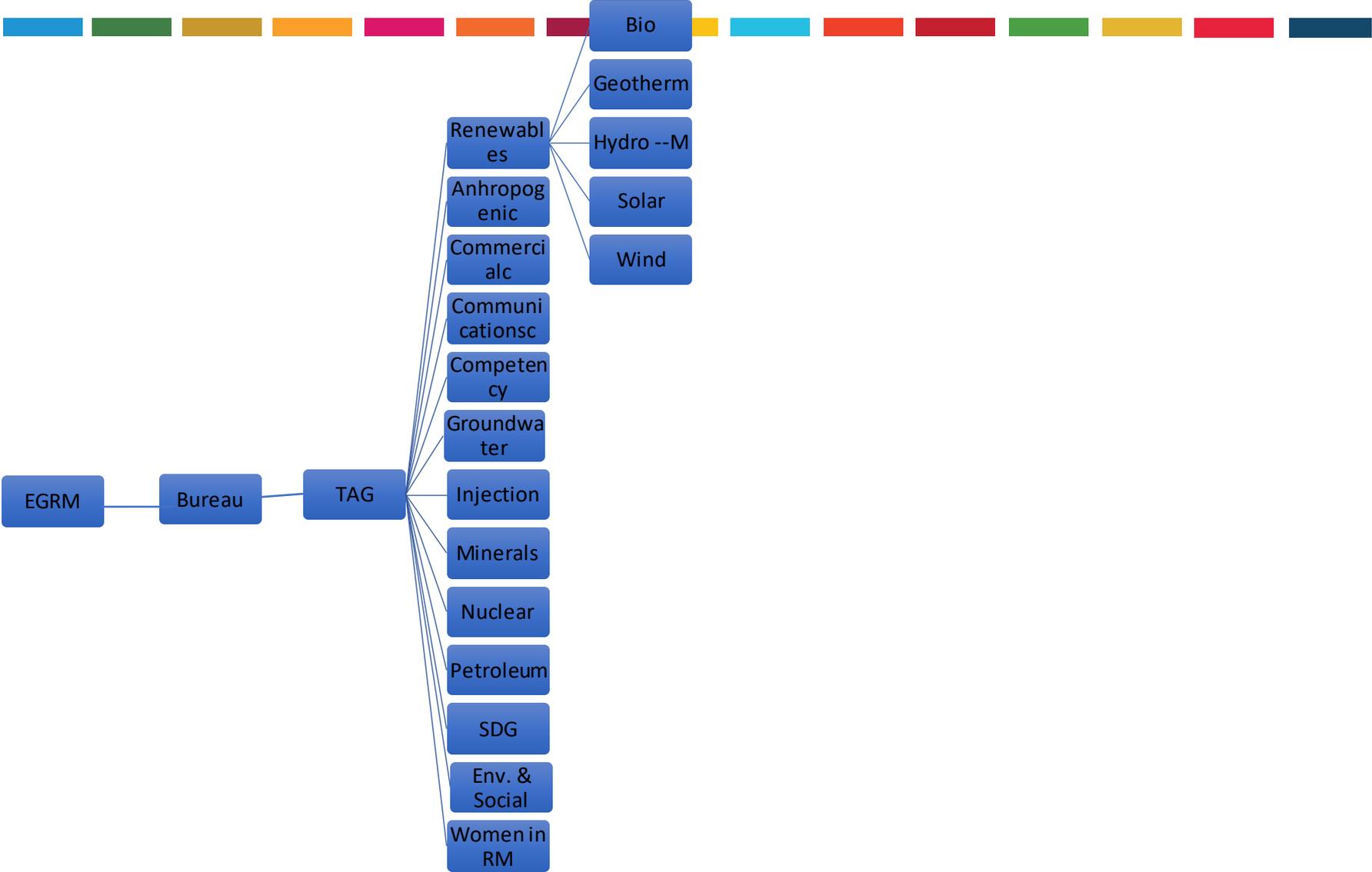


UNEP

- Advise the Bureau and provide technical support to stakeholders using UNFC/UNRMS
- Develop and maintain sector-specific documents and guidance for UNFC
- Assist and engage stakeholders in applying and mapping to UNFC
- Review and evaluate progress and delivery against workplan
- Special attention to social and environmental aspects and alignment to the SDGs. (Please see the updated TAG ToR).
- Coordination and support of the commodity Working Groups
- Review draft EGRC documents and recommend to the Bureau
- Receive and assign requests for assistance or advice from stakeholders
- Monitor and support Working Group projects and facilitate cross-group collaboration

TAG Structure

April 2023



TAG Membership

April 2023



UNECE

Dr. Satinder Purewal	Co-Chair
▪ Mr. Alex Shpilman	Co-Chair
▪ Mr Ulrich Kral	Anthropogenic Working Group
▪ Mr Sigurd Heiberg	Commercial Working Group\
▪ Ms Carolina Coll	Communications Group
▪ Mr. Vitor Correia	Competency Work Group
▪ Dr. Peter van der Keur	Groundwater Working Group
▪ Mr Serge van Gessel	Injection Projects Working Group
▪ Dr..Hendrik Falck/Mr. Aaron Johnson	Minerals Work Group
▪ Mr King Lee	Nuclear Fuel Working Group
▪ Ms Barbara Pribyl	Petroleum Working Group
▪ Mr Jeremy Webb	Renewables Working Group
▪ Dr Julian Hilton	SDG Working Group (reports directly to Bureau)
▪ Mr Claudio Virues	Social & Environmental Working Group (David Elliott to 23/9/20)
▪ Ms Maria Capello & Ms Cristina Robinson	Women in Resource Management

Observers: EGRM Chair, Ms Charlotte Griffiths (UNECE), Mr Hari Tulsidas (UNECE); Mr. Slavko Solar (UNECE)

WG Updates – 1

Renewables WG



Documents

- UNFC Geothermal Specifications were updated to align with UNFC (2019).
 - UNFC is mandated as the reporting code for geothermal energy in Queensland, Australia in October 2022.
- Minor updates are required for Bioenergy, Solar, Wind specifications
- Hydro specifications will be developed
- Generic Renewable Energy Specifications will be discontinued after all specifications are updated to UNFC (2019)
- Case studies under development.
- Comprehensive UNFC Guidance and Best Practice document for integrated renewable energy management will be developed.

Events Attended

- European Geothermal Congress 2022, 17-22 October, Berlin
- Several workshops conducted in Central America
- Preparatory work for UNFC and UNRMS sessions at World Geothermal Congress, 2-6 September 2023, Beijing.

WG Updates – 2

Anthropogenic WG



Documents

- Review of “UNFC for Europe” (Guidance for the Application of the United Nations Framework Classification for Resources (UNFC) for Mineral and Anthropogenic Resources in Europe).

Events Attended

- Webinar: “UN Framework Classification for Resources (UNFC) for Secondary Raw Materials”, 23 March 2023
- Critical Raw Materials Management: UNFC and UNRMS as the Sustainable Transition Pathway. Lille, France. 15 February 2023
- Event on the United Nations Framework Classification for Resources and the United Nations Resource Management System: “Accelerating Implementation of UNFC in Europe”. Raw Material Week, Brussels. 15 November 2022

WG Updates – 3

Commercial WG



- Commercial applications are explained in documents produced for EGRM at its earlier annual sessions.
- at EGRM13, the Expert Group expressed support for the efforts of the Commercial Applications Working Group, the Bureau and ECE to strengthen the relationship with the International Financial Reporting Standards (IFRS) Foundation International Sustainability Standards Board (ISSB) and other standard setters with the view to achieving common standards for resource management (e.g., UNFC and UNRMS) and sustainability financial standards. The Expert Group recognized that the use of common standards in this regard is a prerequisite, both for the achievements of the Expert Group and for serving the capital allocators in successfully financing the reforms.
- The development of the IFRS ISSB standards have been addressed by the UNECE SED and the UNECE Executive Secretary. This has resulted in the planning of a **panel discussion with IFRS and UNECE at EGRM14.**

WG Updates – 4

Competency WG



- Documents

Guidance Note on Competency Requirements for the Estimation, Classification and Management of Resources

- Events attended

EU Raw Materials Week - 5th Event on the UNFC and the UNRMS, DG-GROW/UNECE, Brussels, 15 Nov 2022

Obtaining reliable data on mineral resources to support supply security and enhance strategic resources management, INTRAW, Brussels, 24 Jan 2023

Annual Meeting of the Global Geoscience Professionalism Group (GGPG), Toronto, 8 Mar 2023

WG Updates – 5

Groundwater WG



Documents

- Draft Specifications

ECE/ENERGY/GE.3/2021/12 Supplemental Specifications for Groundwater Resources under further development, especially with respect to criteria for distinguishing between renewable and non-renewable groundwater resources. Case studies for application of UNFC-Groundwater under consideration / further development in Russia, Poland and South Africa

The Groundwater WG has submitted an application to establish a Network under the International Association of Hydrogeologists (IAH) in order to link to groundwater professionals and scientists for the benefit of the Groundwater WG

- Events attended

International Water Association (IWA) congress, Copenhagen, Sept. 15, 2022: UNFC-GW workshop (organized by Kevin Parks, Klaus Hinsby and Peter van der Keur)

UN Groundwater Summit at UNESCO HQ Paris, Dec. 6, 2022: side event including UNFC-Groundwater Resources work (attended by Peter van der Keur)

UN Water Conference at UN HQ (inside) New York, March 24, 2023, side event including UNRMS-GW, anticipating UNFC-UNRMS alignment (attended by Peter van der Keur)

WG Updates – 6

Injection WG



Documents

- Draft UNFC-2019 specifications are in progress and being elaborated by the WG. In parallel the group will prepare a bridging document to SPE-SRMS.

Events

- The NRCAN forum on Carbon Neutrality (Hallifax – Nova Scotia) will be organized on April 19-20th 2023. The forum will address perspectives, issues and potential solutions from onshore and offshore basins, and the development, or lack of, of regulatory frameworks. We have speakers from across Canada, The UK, Netherlands and Norway providing perspectives from their regions
- Presentation at the CSE-13 (22 September 2022) on “Enabling the hydrogen economy”

WG Updates – 7

Minerals WG



Documents

Guidance for the Application of the United Nations Framework Classification for Resources (UNFC) for Mineral and Anthropogenic Resources in Europe

UNFC Case Study: Titanium deposit, the Piampaludo exploration project in Italy.

Events Attended

Hendrik Falck attended the Prospectors and Developers Association Conference in Toronto March 5-8

Obtaining reliable data on mineral resources to support supply security and enhance strategic resources management International Raw Materials Observatory, Brussels, Jan 24, 2023

Annual Meeting of the Global Geoscience Professionalism Group (GGPG) Toronto March 2023



Documents

- UNFC Nuclear Resource Specification being tested and improved.
- UNRMS application for nuclear resources being consulted with industry.
- Contributed to UNECE Carbon Neutrality Toolkit of ECE Group of Experts on Cleaner Electricity Systems in particular
 - Nuclear power Technology Brief
 - Life-cycle assessment of electricity generation options
 - Technology Interplay under Carbon Neutrality Concept
- UNFC and UNRMS Training Manual: Nuclear Resource Management will be developed to provide a comprehensive and user-friendly guide for training and capacity building.

Events attended

- COP 27 Side event on critical raw materials, 10 November, 2022
- Nuclear energy session at the AMREC Implementation Workshop 20-22 March 2023, Windhoek, Namibia
- Several IAEA meetings and nuclear industry workshops

WG Activity – 9

Petroleum WG



Documents

- Bridging Document between the Petroleum Resources Management System and the United Nations Framework Classification for Resources – 2023 Update
- Bridging Document between the Oil and Fuel Gas Reserves and Resources Classification of the Russian Federation of 2013 and the United Nations Framework Classification for Fossil Energy and Mineral Reserves and Resources 2009 (UNFC-2009)
- Contributed to the concept note on “UNFC and UNRMS application to Hydrogen Projects”

Events Attended

- Alex Shpilman attended a conference on the “Current issues of expertise of geological and recoverable hydrocarbon reserves», which was held in Moscow on February 15-16, 2023” where he presented the aforementioned Russian BD

WG Activity - 10

SDG Delivery WG



Keynote speaker and session Chair, NORM Industries; Constructive Regulation 2008 – 2022, 6th African Congress on Radiation Protection (AFRIRPA 6) 10-13 October 2022 – linkages to ranges of SDGs, UN Policy Brief May 2021, Anthropogenic Resources UNRMS (hybrid)

Chair and Presenter, IAEA Environet Project WG#5, Revalorisation of NORM Industry Residues in the Scope of the Circular Economy, Nov. 15-17, 2022 – linkage to SDG Delivery WG and UNFC incl. Anthropogenic Resources, UNRMS and UN Policy Brief May 2021 (hybrid)

Convenor and Presenter, International Fertiliser Association Phosphogypsum Working Group, Meeting February 16, 2023, linkage to SDG Delivery WG and UNFC incl. Anthropogenic Resources, UNRMS and UN Policy Brief May 2021 (hybrid)

Keynote Speaker and Moderator, Food and Energy Security – a New Narrative Arab Fertiliser Association Annual CEO Forum, Cairo Feb. 21-24, 2023, - linkages to UNECE (UNFC/RMS) and AMREC/ AMV (AMDC/AUC) – thanks to Hari Tulsidas and Tunde Arisekola for relevant slides. (In person).

Presenter and co-Moderator with Hari Tulsidas, AMDC Workshop on AMREC Implementation Strategies, Presentations and Training Workshop of UNFC/ AMREC in the Africa Region, Windhoek, March 20-22, 2023. (In person).

WG Activity – 11

Social and Environment WG



Documents:

- **ECE/ENERGY/GE.3/2022/7 - Draft Governance Guidelines related to Environmental and Social Factors in Resource Classification and Management**
- Case Studies Offshore Wind Renewable Energy – Application of 2021 SEC Guidelines and E-Axis (submitted to TAG – reattached here)
- Case Studies Geothermal Energy – Application of 2021 SEC Guidelines and E-Axis (Draft)
- Case Studies BioEnergy – Application of 2021 SEC Guidelines and E-Axis (Draft)
- Governance (G) in E-Axis being appended in these case studies since UNFC has not updated/approved the addendum

Events Attended:

- Attended *Critical Raw Materials in Vulnerable Geographies: Impact on Women*
- Attended *18th session of the Group of Experts on Coal Mine Methane and Just Transition*
- Attended *COP 27 side event - Accelerating circularity as a holistic response to the triple planetary crisis: The Economic Case*
- Attended *COP 27 side event - A global sustainability framework for Critical Raw Materials required for low-carbon transitions*

WG Updates – 12

Women in Resource Management WG



Documents

- Special Publication (in Italian) on Women in Natural Resources Management – July 2022
Chartered Engineers - Chapter of Rome, Special Publication (pages 30-43)
https://issuu.com/ordingroma/docs/quaderno_2s-2022_x_web/42

Events Attended

- The working group has organized the third webinar of the program envisaged to explore how resources management is impacting and will impact women in the various industry sectors and regions. This last webinar focused on:
“Critical Raw Materials in Vulnerable Geographies: Impact on Women” - 23, March 2023
With experts:
Kombada Mhopjeni, Geol. Survey of Namibia/Unesco; Alejandra Woods, Codelco; Dr Jessica Smith, Colorado School of Mines, Alfredo Alvarez Laparte, EY Mexico.

Other Documents

Type Subtitle Here



- Draft Hydrogen concept Note
- Draft CBM Classifications Note

UNFC/UNRMS Roadmap: Future Updates and Timelines 1

Objectives



To create consistent and clear updates, including timelines, for UNFC, UNRMS, Specifications and other related documents

Timelines will provide advance planning of activities

UNFC/UNRMS Roadmap: Future Updates and Timelines 2

Key Updates



UNEP

- **UNFC** update every 7 years; last update 2019; next update 2026; time for update 1 year-initiate at beginning of the year and complete by April 2027 (EGRM in 2027). Update to be initiated 2 years prior with a task force set up from TAG and ensure representation of all relevant disciplines
- **UNRMS** (timeline as UNFC): UNRMS requires alignment with UNFC in the same timeline to ensure capture of key changes (if any).
- **Specifications:** same year after UNFC update has been approved i.e. just after EGRM 2027. This will be carried out within each work group and steered by the work group chair. The WG chair may decide to form a subgroup with relevant expertise to ensure capture of the required update in a timely fashion.
- **Bridging Documents:** These should to be updated on an ad hoc basis depending on timing updates by other entities e.g. SPE, CRISCO, RF2013, etc.
- **Guidelines:** These preferably to be updated alongside specifications by WG's

Some Other Key Points



- UNFC **does not require major revisions**: as it's been reviewed many times and has been agreed by stakeholders. Its been approved by many countries and should only need minor updates in future primarily to ensure consistency with other classification systems and any other changes deemed appropriate to the E-axis.
- **Intelligence**: Track other commodity categorisations updates via WG's such as Petroleum (for PRMS updates by SPE) and Minerals (Updates by CRIRSCO), etc.
 - Track the ESG requirements and standards being introduced.

Key Focus next 2-5 years



- **Case Studies:** these need to be expanded considerably regionally and globally. This should be the major focus of all WG's to ensure global uptake of UNFC/UNRMS. Applications of these instruments is critical to ensure embedment in important balanced decisions that have to be made in the energy transition
- **ICE:** set up of these need to be pursued with an enlightened global vision. Setup has already started and progressed significantly in Russia and to some extent in Mexico. Financing remains an issue.
- **Finance:** To achieve the desired objectives, finance remains a big challenge. This is partly due to the UNECE rules which constrain how finance can be raised or procured from various entities. These are rigid rules but not much can be done unless the rules are changed by the powers that be. This is a big challenge as UNECE cannot rely on volunteers and have a skeleton full time staff.
- **Streamline:** WG streams should be streamlined to ensure alignment with clear TOR, objectives and output which is consistent across WG's

Conclusions

Lets focus and achieve results!!



- TAG had a very productive year and successful publication list
- WG's continue to proactively engage creatively to generate interest in UNFC/UNRMS globally
- TAG along with the Bureau proposed re alignment of the EGRM, Bureau and TAG during 2022. This has been put on hold due to request by UNECE members. This may be revisited in future at the right time.
- Future updates to UNFC/UNRMS, Bridging Documents (BD's), Specifications and Guidelines are proposed
- WG chairs and WG members are thanked for their valiant efforts to support TAG's collective objective of UNFC/UNRMS uptake globally

Thank you!

Satinder Purewal
TAG Co-Chair

UNECE

Date 27 | 04 | 2023, Geneva



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