

3. Delivering on Sustainable Energy: Accomplishments since the 31st Session of the Committee on Sustainable Energy

Reports

Developed cross-thematic knowledge to produce joint papers and events on key, complex topics: Building Resilient Energy Systems, Sustainable Hydrogen Production Pathways, Sustainable Resource Management (UNRMS/UNFC), Critical Raw Materials, Energy Connectivity, Role of Women in Energy Transition

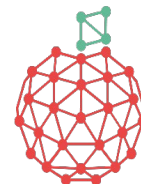


46 reports and technical documents

3. Delivering on Sustainable Energy:

Accomplishments since the 31st Session of the Committee on Sustainable Energy

- Organized special events and high-level dialogues on the topics of **building resilient energy systems, critical raw materials, climate finance, energy connectivity and digitalization of energy systems.**
- Launched a strategic partnership of UN Agencies (UNECE, UNESCAP and UNDP) at the 2nd Almaty Energy Forum and formed a Task Force for Energy Transition in Central Asia** to design and build resilient energy systems in Central Asia.
- Set up**, in cooperation with EMBER, an **online bi-monthly series *Methane Mondays*** providing a **platform for a multistakeholder dialogue** on matters related to **MRV and mitigation of methane emissions along the coal value chain**



2nd Almaty Energy Forum



Meetings, Trainings,
Webinars

3. Delivering on Sustainable Energy: Subprogramme Accomplishments since the 31st Session of the Committee on Sustainable Energy

6 Expert Group Annual Meetings

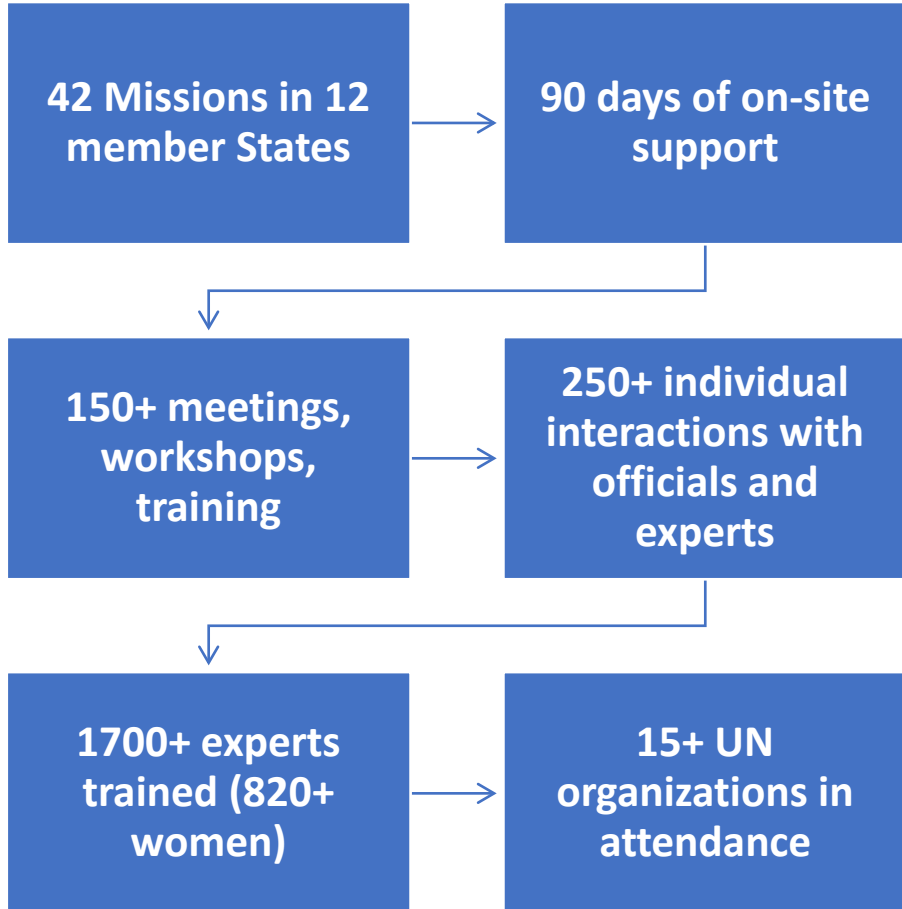
27 Bureau meetings

55 Workshops, Training, Webinars

4050 attendees, 1226 women



3. Delivering on Sustainable Energy: Subprogramme Accomplishments since the 31st Session of the Committee on Sustainable Energy



3. Delivering on Sustainable Energy: Enhancing Outreach



Follow us & share our work!

UNECE Sustainable Energy on LinkedIn to spread information quickly and more effectively to our member States about key products, events and resources

Join our newsletter: [Newsletter Registration \(office.com\)](https://www.unece.org/sustainable-energy/newsletter-registration)

<https://unece.org/sustainable-energy>

Expert Group on Resource Management



- Key achievements on UNFC:

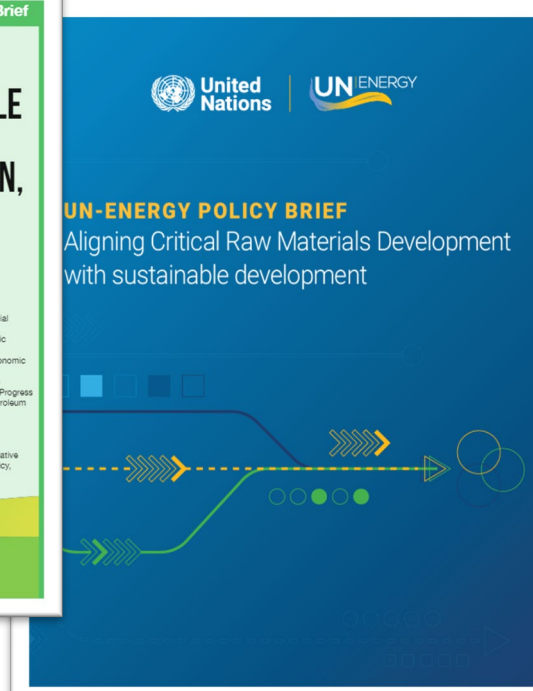
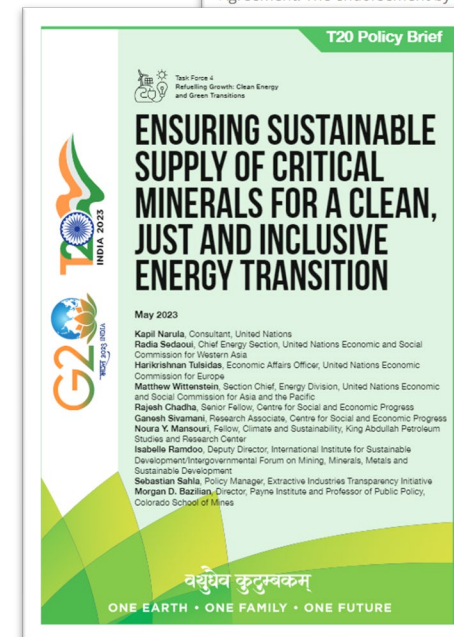
- **UNECE Resource Management Week 2023**, with 470 experts from 88 countries and international organizations. Focus on youth.
- **UNRMS published; ECOSOC recommended UNRMS** for global use.
- **Inclusion in EU CRMs Act Proposal.**
- **UN-Energy and G-20 Policy Brief on CRMs.**
- **UN Working Group on Transforming Extractive Industries for SD – toolkit on CRMs.**
- **Hydrogen classification and management.**
- **International Centres of Excellence on Sustainable Resource Management** established and being established worldwide.

ECOSOC endorses UNRMS, paving the way for the implementation of sustainable resource management principles worldwide

[UNFC and Sustainable Resource Management](#) [Climate Change](#)
[Sustainable Development Goals](#) [Circular Economy](#) [Sustainable Energy](#)

30 August 2023

A milestone for advancing sustainable resource management worldwide has been reached with the endorsement of the United Nations Resource Management System (UNRMS) by the United Nations Economic and Social Council (ECOSOC). UNRMS is a set of principles and requirements that guide the planning, design, operation and closure of resource extraction and processing activities to balance economic development, environmental sustainability and social responsibility in line with the Sustainable Development Goals (SDGs) and the Paris Agreement. The endorsement by ECOSOC opens the way for global application of UNRMS, as countries and companies manage natural resources



Expert Group on Resource Management



UNFC and UNRMS are global benchmarks for resource management

- UNRMS endorsed by ECOSOC for global application
- UNFC in Norwegian Mineral Strategy
- Adoption in Africa
- Mandated for Geothermal in Queensland
- Supporting Circular Economy
- Supporting ESG-focused investments
- Case studies on UNFC and UNRMS: Albania, Italy, Ukraine and United Kingdom
- UNFC and UNRMS Road Map for next 10 years

Interest in UN Framework Classification for Resources heats up in geothermal community

SDGs > Committee on Sustainable Energy > Renewable Energy > UNFC and Sustainable Resource Management > Climate Change > Sustainable Development > Sustainable Energy >

08 December 2022

A UN Framework to improve the effectiveness of energy resource management is sparking significant interest from geothermal experts, signaling strong potential to contribute to climate action and sustainable development.

Raw materials community calls for widespread implementation of UN Framework Classification for Resources

SDGs > UNFC and Sustainable Resource Management > Climate Change > Sustainable Development > Sustainable Energy >

COP27: UNECE presents UN-approved system for natural resources management to support low-carbon transition

SDGs > UNFC and Sustainable Resource Management > Climate Change > Sustainable Development > Sustainable Energy >

09 November 2022

Heatwaves and droughts are drying rivers and freshwater sources, spreading desertification and accelerating soil erosion. Food production is under severe threat everywhere, raising the spectre of famine and mass starvation. As nature gasps for survival, people scramble to get hold of diminishing natural resources. To turn the centuries-old practices of "exploitative" natural resource use on its head and help build a peaceful and prosperous world, the UN has approved the new UN Resource Management System.

Queensland, Australia, is first jurisdiction to legislate application of the United Nations Framework Classification for Resources to Geothermal energy

UNFC and Sustainable Resource Management > Climate Change > Sustainable Energy >

07 September 2022

The application of the UN's flagship framework for sustainable resource classification (UNFC) reached a new milestone with the decision by Queensland, Australia, to legislate application of UNFC to geothermal energy.

Queensland's Geothermal Energy Regulation 2022 includes the UNFC Geothermal Specifications for classifying and reporting geothermal energy resources. It was approved by the Governor in Council in Brisbane and came into effect on 1 September 2022.



Group of Experts on Coal Mine Methane and Just Transition

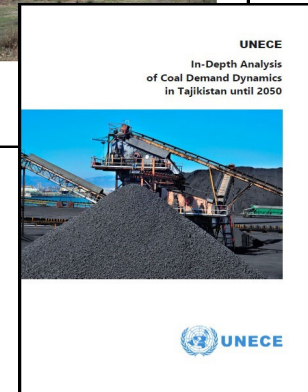
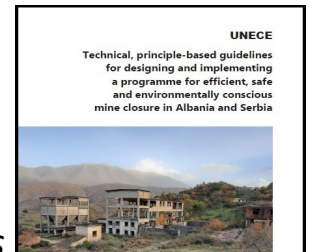


- **3 Task Forces** established and operational:
 - on Just Transition,
 - on Methane Emissions Reduction,
 - on Safe Operations and Closure of Coal Mines



- **3 Publications**

- *Guidelines for designing and implementing a programme for efficient, safe and environmentally conscious mine closure in Albania and Serbia* (delivered)
- *Analysis of Coal Demand Dynamics in Tajikistan until 2050* (delivered)
- *Socio-economic consequences of the transition of the Ukrainian energy sector* (Final draft)



- **Annual session** successfully delivered

- **Work Plan** for 2024-2025 developed and adopted (subject to CSE approval)

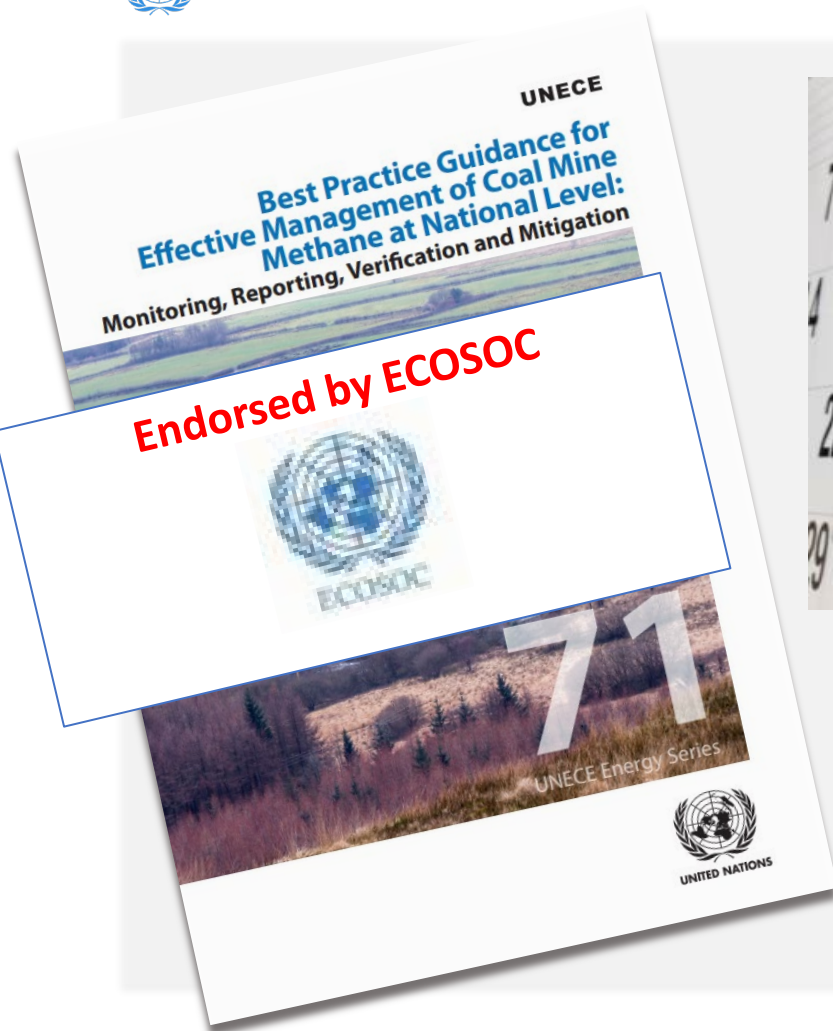
- **Case studies** on MRV (1 delivered, 2 in progress)

- **10 workshops and seminars** delivered in: Albania, Poland, Tajikistan, USA, and Kazakhstan (online)

- **Youth Engagement** - under the UN Graduate Study Programme developed with students a report: *Forging a Just Transition: Towards Green Jobs and Rights-Based Futures*



Group of Experts on Coal Mine Methane and Just Transition



Methane Mondays

- 5 sessions delivered online facilitating exchanges on methane issues between various stakeholders

- PROGRESS ON JUST TRANSITIONS!
- **Task Force** operating under the Group of Experts established and operating
 - **Project on Mapping Albania's readiness for green and just transition in post-coal mining areas** approved and launched

Group of Experts on Renewable Energy



- SDG Fund project on "**Addressing the compounded food and energy crises in Ukraine through innovative technologies and adaptive agricultural practices**", 2023
- Multi-stakeholder dialogue on "**Untapped Bioenergy Potential of Ukraine: Comprehensive View of Proper Use. Issue of Energy Security and Food Security**", 2023
- Study on "**Growing energy crops along roads protective strips**" in Ukraine, 2023
- Input to SDG7 review, in particular to **Energy Progress Report 2023** and the **SDG7 Policy Briefs for the High-level Political Forum**, 2023



Expert Group on Cleaner Electricity Systems



- A number of joint activities with ESCAP on **Energy Connectivity**
 - Brief on Power System Connectivity at HLPF 2023
 - Project on Energy Connectivity in Central Asia
 - Stocktaking analysis on energy infrastructure in Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan



Expert Group on Cleaner Electricity Systems



Outreach and Training

- Tailored the Carbon Neutrality Toolkit on subregional and national level: Central Asia and Ukraine. Launching a project on Moldova.
- Promoted Carbon Neutrality findings at **high level international events**, such as the Almaty Energy Forum 2022, COP27 in Sharm el-Sheikh, HLPF 2023 etc.

TOOLKIT LAUNCHED SEPTEMBER 2022!

4 briefs

- 3 technology briefs on CCUS, hydrogen and nuclear power and
- 1 on carbon neutral energy intensive industries

3 publications

- Geologic CO₂ storage in Eastern Europe, Caucasus and Central Asia
- Technology Interplay under the Carbon Neutral Concept
- Life Cycle Assessment of Electricity Generation Options

<https://carbonneutrality.unece.org/>



Carbon Neutrality Toolkit

Supporting policies
towards the implementation of
Sustainable Development Goals

Rebuilding Ukraine with a Resilient, Carbon-Neutral Energy System



Group of Expert on Gas



- **Dialogue on resilient energy systems** - interruptions in the supply to Europe, rebalancing Europe's energy gas supplies, and mapping alternative supplies, in the context of UN climate agenda.
- **Discussion on blending of hydrogen and natural gas.** Explored the role of gas infrastructure – pipelines, liquefied natural gas (LNG) tankers and terminals, compressors, and storage – in jumpstarting production, transmission, and consumption of hydrogen.
- **Launched a Hydrogen Task Force (HTF)**, in cooperation with the Group of Experts on Renewable Energy and the Expert Group on Resource Management to streamline hydrogen related activities under the Committee.

Group of Expert on Gas



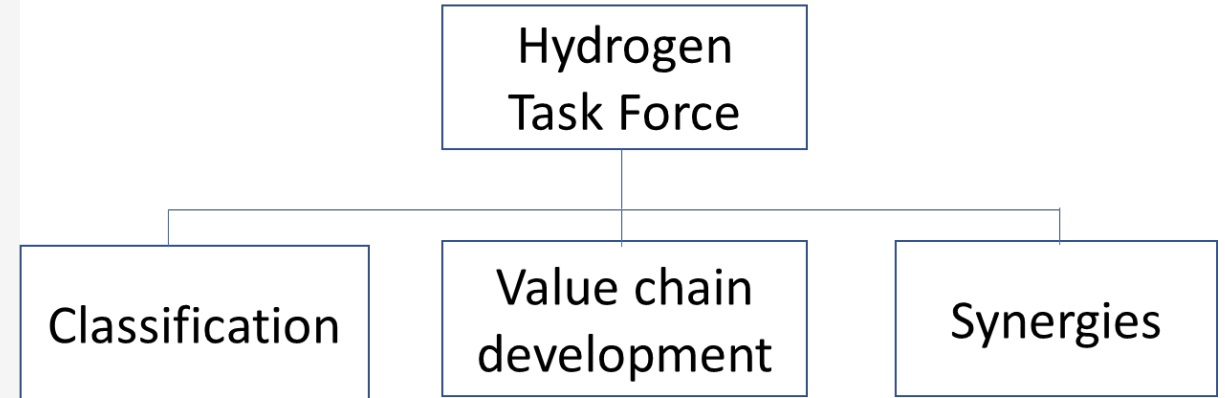
HTF focuses on three main workstreams

It is recommended to MSs to investigate integrated hydrogen production and harness potentials for hydrogen production and use at a local scale.

UNECE continues the project “Sustainable hydrogen production in the UNECE region and its role in the development of a hydrogen ecosystem and export potential”, funded by the Russian Federation.

HTF will expand the reach of current initiatives to the countries of Central Asia, the Caucasus, and Western Balkans – not covered by current initiatives

Application of the United Nations Framework Classification for Resources and the United Nations Resource Management System to Hydrogen Projects ([ECE/ENERGY/GE.3/2023/6](https://www.unece.org/energy/ge3/2023/6))



Group of Experts on Energy Efficiency



Major regional mandate-setting events



Interdivisional cooperation and new partnerships



Flagship project kick-off



Technical sessions



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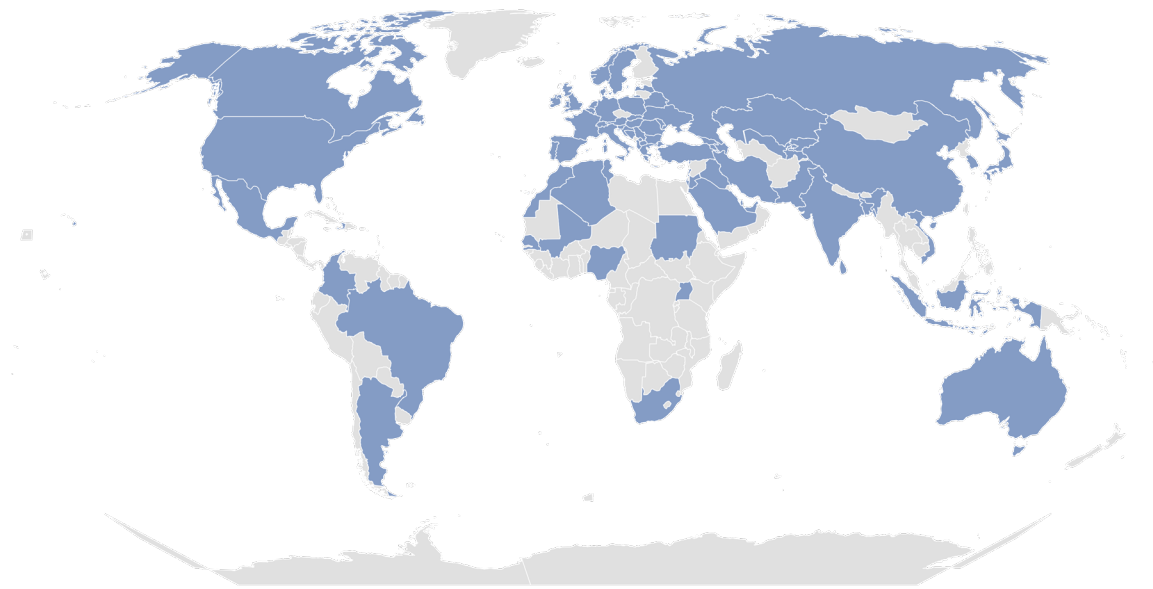
Three UN-Energy publications



Official and informal substantive documents



Six workshops / seminars with cumulative outreach to 433 energy experts from 79 Member States



Youth engagement



- Expert Group on Resource Management
 - Established a Resource Management Young Member Group
 - *Active, engaged, enthusiastic!*
 - Developing Guidebook on Critical Minerals for youth
 - UNRMS included in G20 Youth Communiqué
- Group of Experts on Coal Mine Methane and Just Transition
 - Held a session on youth engagement at the annual session of the Group
 - Under UN Graduate Study Programme developed with students a report: *Forging a Just Transition: Towards Green Jobs and Rights-Based Futures*
 - Organized an information session for students from University of Gdansk



Highlights in Regional Advisory Services



Projects (XB - 4, UNDA - 1, RPTC - 4): 9

- Completed: 4
- In progress: 5

Total funding for UNECE (RPTC – SED only): ~USD 840,000

New project proposals submitted: 5

Studies (RPTC): 6 (4 completed)

Workshops: 14 (6 more planned in 2023)

Advisory missions: 6 (3 more planned in 2023)

Highlights in Regional Advisory Services



- **Strengthening Georgia’s food and energy resilience** → Joint SDG Fund Global Crisis on Food, Energy, Finance. Implemented jointly with FAO (lead) and UNEP (July 2022-March 2023)
- **Preparation phase of the project “Improving the energy efficiency of the global building supply chain industry and its products to deliver high performance buildings”** (April-November 2023)
 - Funded by IKI Germany (preparation phase EUR 250,000; full project EUR 19.8 million for 5 yrs)
 - Beneficiary countries: *Armenia, Georgia, Kyrgyzstan, Republic of Moldova, Tajikistan, Ukraine, and Uzbekistan*
 - Implementing partners: UNDP Country Offices in the beneficiary countries, UNEP, UNESCAP, UNEP-CCC, EEP, PHI, and GBA
- **Building Capacity in Albania**
 - Study on Mine Closure in Albania and Serbia
 - Report on Assessment of the geothermal resources of Albania
 - Workshop on Just Transition in Mining Communities and Potential for Development of Geothermal Energy (20 June 2023)
 - New RPTC project Mapping Albania’s readiness for green and just transition in post-coal mining areas (June-December 2023)