



Report by the Chair of the Committee on Sustainable Energy

Jürgen Keinhorst, Chair
Committee on Sustainable Energy

125th Meeting of the Executive Committee, 30 November 2022

- The Sustainable energy subprogramme works to improve access to affordable and clean energy for all and to reduce greenhouse gas emissions and the carbon footprint of the energy sector in the region
 - Supports international policy dialogue and cooperation
 - Focuses, in particular, on energy efficiency, cleaner electricity systems, renewable energy, coal mine methane, resource management, natural gas and energy security
- The **outbreak of war** in the region, continued **COVID-19** restrictions, **supply chain challenges** and **climate change impacts** exacerbate the challenges for member States of meeting the 2030 Agenda and Paris Agreement goals

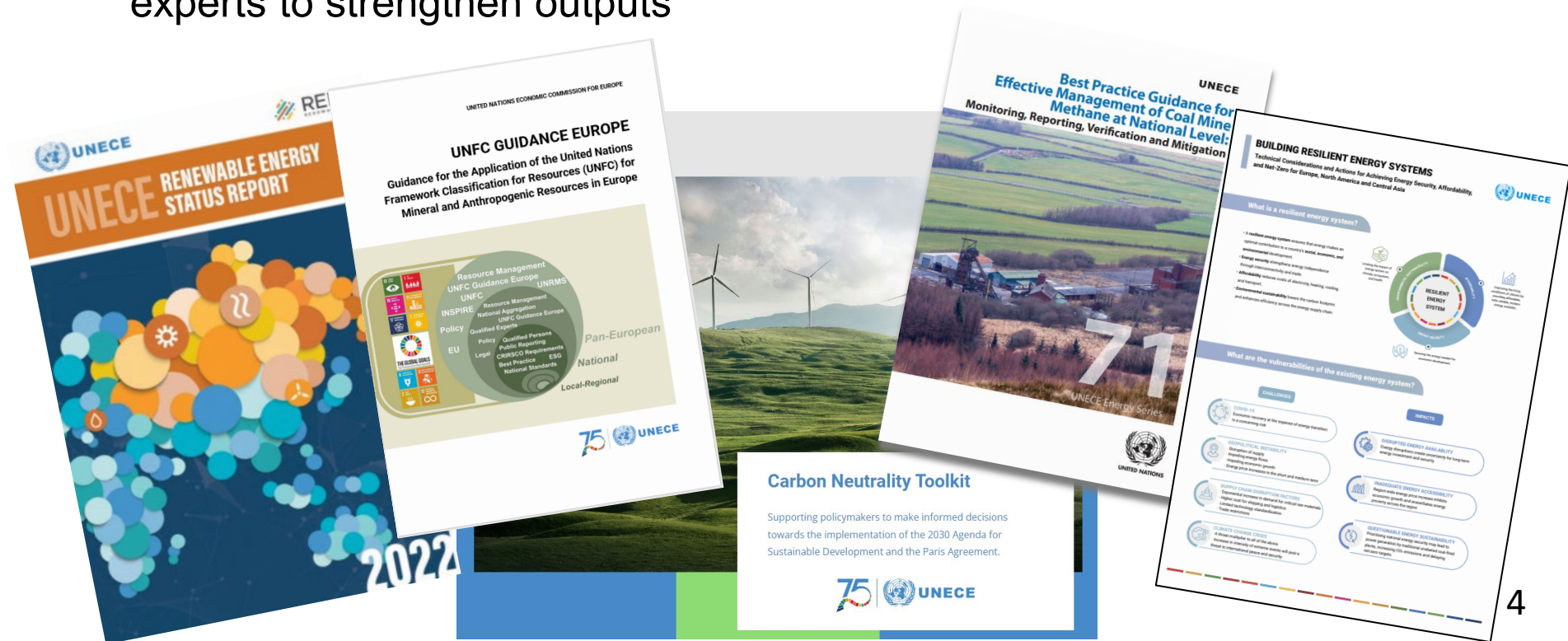
Energy System Resilience:

Three main dimensions

Political dimension	<ul style="list-style-type: none">- Avoidance of system-relevant dependencies;- Willingness to cooperate / limits;- Diversification in terms of suppliers and supply chains.
Technological dimension	<ul style="list-style-type: none">- Reliable supply of energy;- Access to energy sources;- Controllability of technology (e.g. training/ job market)
Financial dimension	<ul style="list-style-type: none">- Share of energy costs in national income;- Energy dependence of key sectors;- Consideration of price elasticities- Economic strength / vulnerability;- (State) buffer capacity;- Affordability;- Financeability of investments (framework conditions).

Key achievements 2021-2022

- **Launched key publications for member States**, i.a. on the topics of Sustainable Resource Management (UNRMS/UNFC), Methane Management, Carbon Neutrality and Renewable Energy
- **Developed cross-thematic knowledge to produce joint papers and events on key, complex topics** - such as on resiliency including energy security, on digitalization - through leveraging joint work by multiple experts to strengthen outputs

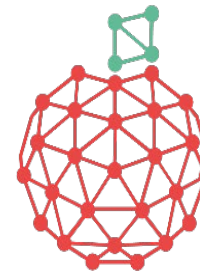


Key achievements 2021-2022 (continued)

- **Organized special events and high-level dialogues on the topics of building resilient energy systems, critical raw materials, methane management, just transition and climate finance**



- **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.



**2nd Almaty
Energy Forum**

1. Contribute to building Resilient Energy Systems

- Design and deploy the ***ECE Platform on Resilient Energy Systems***, as a decision support tool for member States while achieving 2030 Agenda and Paris Agreement goals
- Integrate resiliency considerations into expert group work planning and develop relevant resources for member States
- Develop pilot activities at regional level

2. Provide targeted support to build resilient energy systems in Central Asia

- Facilitate through the **Central Asia Task Force, in cooperation with UNESCAP**, the selection and implementation of effective policies to enhance energy system resilience with specific focus on:
 - Options for developing **energy connectivity** in the region
 - **Energy-Water nexus** activities
 - **Framework conditions** for the financeability of energy investments

3. Support the development of a Hydrogen Ecosystem

- Operationalize Task Force on Hydrogen to coordinate efforts and develop:
 - a comprehensive classification for hydrogen
 - Specifications for UNFC/UNRMS application to hydrogen projects and production technologies, if/where appropriate

4. Accelerate activities on Sustainable Resource Management

- Support UNECE member States in priority **deployment of UNFC**
- Continue **development of UNRMS** with a focus on the extraction, sustainability and procurement of **Critical Raw Materials and Resource Efficiency**, i.a. with focus on Central Asia

Decisions for Consideration

At its thirty-first session in Geneva from 21–23 September 2022, the Committee on Sustainable Energy:

- a) Adopted the proposed draft programme of work of the sustainable energy subprogramme for 2023 (ECE/ENERGY/2022/1); and
- b) Approved the extension of the mandates of the Task Force on Industrial Energy Efficiency and the Task Force on Digitalization in Energy under the Group of Experts on Energy Efficiency, for the period 2023–2024.

The Executive Committee is invited to approve the above decisions.



Thank you for your attention

Committee on Sustainable Energy

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Appendix



2022 CSE Cross-cutting achievements: By numbers



EVENTS



OUTREACH

Just launched
August 2022!
UNECE
Sustainable
Energy on
LinkedIn
>50 Posts
viewed by >15k;
450+ followers

MISSIONS



2022 Selected achievements by priority area

- **Sustainable Resource Management:**

- Developed eight substantive UNFC and UNRMS documents; Implemented ongoing European Commission-funded project on UNFC and UNRMS; Focus on CRMs; Organized and supported high-level events, including UNECE regional climate finance forum, a side event at COP27 and EU Raw Materials Week. Supported WG on Transforming the Extractive Industries for Sustainable Development

- **Hydrogen:**

- Completed hydrogen in transport project and started a new project on sustainable hydrogen production; Increased awareness of the need to develop a hydrogen classification that addresses the full life cycle; Hosted a dialogue on energy system resilience and gas supply

- **Methane management and Just Transitions**

- Published best practice guidance for managing coal mine methane; Hosted four “Methane Mondays” and posted seven interviews with experts; built capacity on just transition, including by working with local communities in Ukraine and hosting events at the Global Clean Energy Action Forum and the Global Methane, Climate and Clean Air Forum

2022 Selected achievements by priority area (continued)

- **Carbon Neutrality:**

- Hosted 15 capacity-building workshops and multi-stakeholder dialogues; Launched the Carbon Neutrality Toolkit.

- **Energy efficiency:**

- Developed five studies, reports and documents to support decision-making by member States; Conducted six training workshops and a roundtable for policymakers on energy efficiency; Improved coordination of International Centres of Excellence on High-Performance Buildings; Co-hosted two side-events at the Global Clean Energy Action Forum.

- **Renewable Energy:**

- Launched the *UNECE Renewable Energy Status Report 2022*, a comprehensive overview of the current status of renewable energy and energy efficiency trends in the region; Hosted three Renewable Energy Hard Talks in Georgia, Republic of Moldova and Serbia.

Looking ahead – Other Key Activities

ENERGY EFFICIENCY

- Develop the network of International Centres of Excellence for High Performance Buildings
- Advance the principles of the Framework Guidelines

RENEWABLE ENERGY

- Organize dialogues/Hard Talks to use the results of the Renewable Energy Status Report 2022 for an open dialogue among stakeholders

METHANE MANAGEMENT

- Build capacity through the best practices, training and workshops.
- Promote just transition of industries ensuring social and environmental equity

CARBON SUBSIDIES & FINANCING

- Explore impacts of subsidies and carbon pricing options, and study how to address barriers to finance particularly related to critical raw materials