**Achievements of the Committee on Sustainable Energy and its Subsidiary Bodies**

**List of reports and documents developed from December 2022 – November 2023**

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| Report | Link |
| **Resilience and Carbon Neutrality** |  |
| UNECE Carbon Neutrality Toolkit | <https://carbonneutrality.unece.org/> |
| Building Resilient Energy Systems: Actions for Achieving Greater Energy Security, Affordability and Net-zero in the UNECE Region | <https://unece.org/sites/default/files/2023-03/Resilient%20Energy%20Systems_EN.pdf> |
| Rebuilding Ukraine with a Resilient, Carbon-Neutral Energy System | <https://unece.org/sites/default/files/2023-07/EN_Rebuilding%20Ukraine%20with%20a%20Resilient%20Carbon-Neutral%20Energy%20System_V8.pdf> |
| **Sustainable Resource Management** |  |
| United Nations Resource Management System: Principles and Requirements | https://unece.org/info/Sustainable-Energy/UNFC-and-Sustainable-Resource-Management/pub/375645 |
| Bridging Document between the Petroleum Resources Management System and the United Nations Framework Classification for Resources – 2023 Update | https://unece.org/sites/default/files/2023-02/PRMS\_UNFC\_Bridging\_Document\_ECE\_ENERGY\_GE.3\_2023\_4.pdf |
| 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 Resources | https://unece.org/sites/default/files/2023-02/RF-UNFC\_BD\_ECE\_ENERGY\_GE.3\_2023\_5.pdf |
| Concept Note and Proposed Actions: Application of the United Nations Framework Classification for Resources and the United Nations Resource Management System to Hydrogen Projects | https://unece.org/sites/default/files/2023-02/EGRM-14-Hydrogen%20Concept%20Note%20v4\_ECE\_ENERGY\_GE.3\_2023\_6.pdf |
| Securing Access to Critical Raw Materials in the United Nations Economic Commission for Europe Region: Challenges and Opportunities | https://unece.org/sed/documents/2023/07/working-documents/securing-access-critical-raw-materials-unece-region |
| G20 - T20 Policy Brief - Ensuring Sustainable Supply of Critical Minerals for a Clean, Just and Inclusive Energy Transition | <https://t20ind.org/wp-content/uploads/2023/05/T20_PolicyBrief_TF4_CriticalMinerals.pdf> |
| UN-Energy Policy Brief: Aligning Critical Raw Materials Development with sustainable development | https://sdgs.un.org/sites/default/files/2023-06/2023%20Policy%20Brief%20Aligning%20CRMs-062823\_0.pdf |
| **Methane Management** |  |
| Technical, principle-based guidelines for designing and implementing a programme for efficient, safe and environmentally conscious mine closure in Albania and Serbia | https://unece.org/sites/default/files/2023-06/Study%20on%20mine%20closure%20in%20Albania%20and%20Serbia%20-%20FINAL.pdf |
| In-Depth Analysis of Coal Demand Dynamics in Tajikistan until 2050 | https://unece.org/sites/default/files/2023-05/Study%20on%20the%20Dynamics%20of%20the%20Tajikistan%27s%20Coal%20Demand%20until%202050\_0.pdf |
| **Renewable Energy** |  |
| Status of implementation of renewable energy action plans across 17 ECE countries | https://unece.org/sites/default/files/2023-09/ECE\_ENERGY\_GE.7\_2023\_3e\_web.pdf |
| Bioenergy production and potential for addressing the compound food and energy crisis in Ukraine | https://unece.org/sites/default/files/2023-08/ECE\_ENERGY\_GE.7\_2023\_4e.pdf |
| Multi-stakeholder Dialogue: policy recommendations to support biofuels market development in Ukraine | https://unece.org/sites/default/files/2023-08/ECE\_ENERGY\_GE.7\_2023\_5e.pdf |
| Supporting energy crops along roads and highways in Ukraine | https://unece.org/sites/default/files/2023-08/UNECE-ECP%20along%20highways\_Final\_0.pdf |
| **Natural Gas and Hydrogen** |  |
| Low-carbon hydrogen production in the CIS countries and its role in the development of the hydrogen ecosystem and export potential | https://unece.org/info/Sustainable-Energy/Hydrogen/pub/374822 |
| Energy system resilience and the future of gas supply in  Europe | https://unece.org/sites/default/files/2023-03/ECE\_ENERGY\_GE.8\_2023\_3\_ResilienceGasEurope.pdf |
| **Energy Connectivity** |  |
| Transitioning electricity supply systems to net-zero emissions power systems – common principles for reliability of supply | https://unece.org/sites/default/files/2023-08/ECE\_ENERGY\_GE.5\_2023\_5\_EN\_0.pdf |
| Policy brief on advancing power system connectivity in support of SDG7 | https://unece.org/sites/default/files/2023-08/2023%20Policy%20Brief%20Connectivity-062823.pdf |
| Energy Connectivity in Central Asia  - an inventory of existing national energy systems | https://unece.org/sites/default/files/2023-11/EN\_Energy%20Connectivity%20in%20Central%20Asia\_V2.pdf |
| **Energy Efficiency** |  |
| Advancing energy resilience and decarbonization across the ECE region: analysis of macro-level status quo and action points for the industrial sector | https://unece.org/sites/default/files/2023-10/ECE\_ENERGY\_GE.6\_2023\_5.pdf |
| Advancing energy resilience and decarbonization across the ECE region: unleashing the potential of energy storage and demand-side flexibility | https://unece.org/sites/default/files/2023-08/ECE\_ENERGY\_GE.6\_2023\_6\_0.pdf |
| **Digitalization** |  |
| Key considerations and solutions to ensure cyber resiliency in the smart integrated energy systems | https://unece.org/sites/default/files/2023-08/ECE\_ENERGY\_GE.6\_2023\_3\_ECE\_ENERGY\_GE.5\_2023\_3\_EN\_0.pdf |
| Improving efficiency and reliability of energy systems by means of big data analytics | https://unece.org/sites/default/files/2023-08/ECE\_ENERGY\_GE.6\_2023\_4%E2%88%92ECE\_ENERGY\_GE.5\_2023\_4\_EN\_3.pdf |
| **Just Transition** |  |
| Energy sector in Ukraine: challenges, current situation, perspectives for the future | https://unece.org/sites/default/files/2023-03/ECE\_ENERGY\_GE.4\_2023\_6\_Ukraine%26JT.Final\_.pdf |
| Just Transition – the Check List | https://unece.org/sites/default/files/2023-03/ECE\_ENERGY\_GE.4\_2023\_7\_JustTransition\_final.pdf |

**List of events from December 2022 – November 2023**

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| **Sustainable Resource Management** |
| 5th Event on the United Nations Framework Classification for Resources and the United Nations Resource Management System: “Accelerating Implementation of UNFC in Europe” Brussels, Belgium, <https://unece.org/info/Sustainable-Energy/UNFC-and-Resource-Management/events/375263> |
| Critical Raw Materials Management: UNFC and UNRMS as the Sustainable Transition Pathway, Lille, France <https://unece.org/info/Sustainable-Energy/UNFC-and-Resource-Management/events/376012> |
| Webinar: “UN Framework Classification for Resources (UNFC) for Secondary Raw Materials” <https://unece>.org/info/Sustainable-Energy/UNFC-and-Resource-Management/events/376293 |
| Critical Raw Materials in Vulnerable Geographies: Impact on Women <https://unece>.org/info/Sustainable-Energy/UNFC-and-Resource-Management/events/376243 |
| UNECE Resource Management Week 2023, including the 14th Annual Session of the Expert Group on Resource Management <https://unece>.org/info/Sustainable-Energy/UNFC-and-Resource-Management/events/374260 |
| Workshop on Just Transition in Mining Communities and Potential for Development of Geothermal Energy https://unece.org/info/Sustainable-Energy/events/378777 |
| Workshop on Knowledge Sharing on Resource Classification and Estimation <https://unece>.org/info/Sustainable-Energy/UNFC-and-Resource-Management/events/383355 |
| 6th Event on the United Nations Framework Classification for Resources and the United Nations Resource Management System: “UNFC to support harmonizing European raw materials information for resilient supply chains”, Brussels, Belgium <https://unece.org/info/Sustainable-Energy/UNFC-and-Resource-Management/events/383893> |
| Almaty Energy Forum 2023 Session on “Unlocking Central Asia’s Critical Raw Materials” <https://unece>.org/sustainable-energy/events/almaty-energy-forum-2023 |
| COP28 Side event on “Responsible and inclusive management of critical energy transition minerals” https://seors.unfccc.int/applications/seors/reports/events\_list.html |
| **Methane Management** |
| Workshop on Mine Closure in Albania and Serbia, December 2022 - https://unece.org/info/Sustainable-Energy/Coal-Mine-Methane/events/373587 |
| Workshop on the dynamics of coal demand in Tajikistan until 2050 and viability of replacing coal with alternative domestic energy sources, December 2022 - https://unece.org/info/Sustainable-Energy/Coal-Mine-Methane/events/373666 |
| School of Underground Mining, February 2023 - https://unece.org/info/Sustainable-Energy/Coal-Mine-Methane/events/375786 |
| 18th session of the Group of Experts on Coal Mine Methane and Just Transition, March 2023 - https://unece.org/info/Sustainable-Energy/Coal-Mine-Methane/events/373530 |
| Fact-Finding Mission to Albania to explore country's readiness for just transition in coal mining areas, September 2023 - https://unece.org/info/Sustainable-Energy/Coal-Mine-Methane/events/384522 |
| **Natural Gas and Hydrogen** |
| Business case for hydrogen blending, January 2023 - <https://unece.org/info/Sustainable-Energy/events/374412> |
| Workshop and Roundtable on Sustainable Hydrogen Production, October 2023 - <https://unece.org/sustainable-energy/events/workshop-and-roundtable-sustainable-hydrogen-production> |
| Forum on Ways for Sustainable Hydrogen Production, October 2023 - https://unece.org/sustainable-energy/events/forum-innoweek-2023-ways-sustainable-hydrogen-production-uzbekistan |
| Policy Dialogue on Green Energy Transition in Turkmenistan: Tools and Innovative Solutions, October 2023 - <https://unece.org/sustainable-energy/events/policy-dialogue-green-energy-transition-turkmenistan-tools-and-innovative> |
| **Energy Connectivity** |
| Dialogues on Energy Connectivity, Almaty Energy Forum 2023 - https://almatyenergyforum.kbtu.kz/index.html |
| 19th session of the Group of Experts on Cleaner Electricity Systems - https://unece.org/info/Sustainable-Energy/Cleaner-Electricity-Systems/events/379584 |
| **Energy Efficiency** |
| 10th session of the Group of Experts on Energy Efficiency - https://unece.org/info/Sustainable-Energy/Energy-Efficiency/events/379585 |
| United Nations Multi-stakeholder Forum on Science, Technology and Innovation for the Sustainable Development Goals - |
| the International Energy Agency Annual Global Conference on Energy Efficiency - |
| Regional Forum on Sustainable Development for the UNECE Region |
| **Digitalization in Energy** |
| seventieth session of the Commission “Digital and Green Transformations for Sustainable Development in the Region of the Economic Commission for Europe” |
| **Just Transition** |
| Fact-Finding Mission to Albania to explore country's readiness for just transition in coal mining areas, September 2023 - https://unece.org/info/Sustainable-Energy/Coal-Mine-Methane/events/384522 |
| Workshop on Just Transition in Mining Communities and Potential for Development of Geothermal Energy, June 2023 - https://unece.org/info/Sustainable-Energy/Coal-Mine-Methane/events/378777 |