**Platform for Resilient Energy Systems**

**Documents on Energy Efficiency**

2020

<https://unece.org/sites/default/files/2020-12/ECE_ENERGY_GE.6_2020_3e.pdf>

<https://unece.org/sites/default/files/2020-12/ECE_ENERGY_GE.6_2020_4e.pdf>

<https://unece.org/sites/default/files/2020-12/ECE_ENERGY_GE.6_2020_5e.pdf>

<https://unece.org/sites/default/files/2020-12/GEEE-7.2020.INF_.2_final_v.2.pdf>

<https://unece.org/sites/default/files/2020-12/GEEE-7.2020.INF_.3.pdf>

<https://unece.org/sites/default/files/2020-12/GEEE-7.2020.INF_.4-E.pdf>

2021

<https://unece.org/sites/default/files/2021-07/ECE_ENERGY_GE.6_2021_3_Industry_0.pdf>

<https://unece.org/sites/default/files/2021-06/ECE_ENERGY_GE.6_2021_4_EE%20Standards.pdf>

<https://unece.org/sites/default/files/2021-06/ECE_ENERGY_GE.6_2021_5_Policy%20recommendations_final.pdf>

<https://unece.org/sites/default/files/2021-06/2017871_E_ECE_ENERGY_135_WEB.pdf>

2022

<https://unece.org/sites/default/files/2022-08/ECE_ENERGY_GE.6_2022_3e.pdf>

<https://unece.org/sites/default/files/2022-07/ECE_ENERGY_GE.6_2022_4_ECE_ENERGY_GE.5_2022_4_Final.pdf>

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<https://unece.org/sites/default/files/2022-07/GEEE-9.2022.INF_.2_EE-Kaz-Ukr_Study_0.pdf>

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<https://unece.org/sites/default/files/2022-09/Building%20Resilient%20Energy%20Systems%20in%20the%20ECE%20Region%20-%20Joint%20background%20paper%20by%20CSE%20Expert%20Group%20Bureaux_0%20%281%29.pdf>

<https://unece.org/sites/default/files/2022-09/GEEE-9.2022.INF_.4%20_EE_financing.pdf>

<https://unece.org/sites/default/files/2022-10/ECE-TRANS-WP5-2022-02e.pdf>

<https://unece.org/sites/default/files/2022-10/Report%20on%20EE%20in%20RAC_Eng_Final.pdf>

2023

<https://unece.org/sites/default/files/2023-08/ECE_ENERGY_GE.6_2023_3_ECE_ENERGY_GE.5_2023_3_EN_0.pdf>

<https://unece.org/sites/default/files/2023-08/ECE_ENERGY_GE.6_2023_4%E2%88%92ECE_ENERGY_GE.5_2023_4_EN.pdf>

<https://unece.org/sites/default/files/2024-01/ECE_ENERGY_GE.6_2023_5.pdf>

<https://unece.org/sites/default/files/2024-01/ECE_ENERGY_GE.6_2023_6.pdf>

**Documents on Coal Mine Methane and Just Transition**

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| Title | Release date | Link to pdf |
| Best Practice Guidance for Effective Methane Drainage and Use in Coal Mines (The second edition) | Dec 2016 | <https://unece.org/DAM/energy/cmm/docs/BPG_2017.pdf> |
| Best Practice Guidance for Effective Methane Recovery and Use from Abandoned Coal Mines | Dec 2019 | <http://www.unece.org/fileadmin/DAM/energy/images/CMM/CMM_CE/Best_Practice_Guidance_for_Effective_Methane_Recovery_and_Use_from_Abandoned_Coal_Mines_FINAL__with_covers_.pdf> |
| Best Practice Guidance for Effective Management of Coal Mine Methane at National Level: Monitoring, Reporting, Verification and Mitigation | Dec 2021 | <https://unece.org/sites/default/files/2022-07/2119167_E_ECE_ENERGY_139_WEB.pdf> |
| Best Practice Guidance for Effective Methane Management in the Oil and Gas Sector | 2019 | <https://unece.org/sites/default/files/2021-10/Best%20Practice%20Guidance%20for%20Effective%20Methane%20Management%20in%20the%20Oil%20and%20Gas%20Sector%3B%20Monitoring%2C%20Reporting%20and%20Verification%20%28MRV%29%20and%20Mitigation-%20FINAL%20%28with%20covers%29.pdf> |
| The Challenges of the U.S. Coal Industry and Lessons for Europe | May 2016 | <https://unece.org/DAM/energy/se/pdfs/cmm/pub/Challengs_US.Coal.Ind_LessonsEurope.pdf> |
| Best Practice Guidance on Ventilation Air Methane (VAM) Processing | Jan 2024 | <https://unece.org/sites/default/files/2024-01/ECE_ENERGY_GE.4_2024_3e.pdf> |
| Coal in the twenty-first century; Meeting Sustainable Development Goals and Managing Investor Expectations | Jan 2024 | <https://unece.org/sites/default/files/2024-01/ECE_ENERGY_GE.4_2024_4_e.pdf> |
| Mapping Albania’s readiness for green and just transition in post-coal mining areas | Mar 2024 | <https://unece.org/sites/default/files/2024-03/ECE_ENERGY_GE.4_2024_5_Mapping%20Albania_Final.pdf> |
| Study on just transition assessment of Albania; Sector Decarbonization and the Just Transition Framework Applied to Coal Mining | Mar 2024 | <https://unece.org/sites/default/files/2024-04/UNECE%20ALBANIA%20Just%20Transition%20And%20Decarbonization%20Report%20FINAL.pdf> |
| Just Transition - the check list | Mar 2023 | <https://unece.org/sites/default/files/2023-03/ECE_ENERGY_GE.4_2023_7_JustTransition_final.pdf> |
| Energy sector in Ukraine: challenges, current situation, perspectives for the future - Identifying opportunities for the involvement of the Group of Experts on Coal Mine Methane and Just Transition | Mar 2023 | <https://unece.org/sites/default/files/2023-03/ECE_ENERGY_GE.4_2023_6_Ukraine%26JT.Final_.pdf> |
| Coal mine closure in Albania and Serbia | Feb 2023 | <https://unece.org/sites/default/files/2023-03/ECE_ENERGY_GE.4_2023_5_Final.pdf> |
| Assessment of coal demand in Tajikistan to 2050 and the alternative options for replacing coal in the country’s energy mix | Mar 2023 | <https://unece.org/sites/default/files/2023-03/ECE_ENERGY_GE.4_2023_4_Final.pdf> |
| In-Depth Analysis of Coal Demand Dynamics  in Tajikistan until 2050 | 2022 | https://unece.org/sites/default/files/2023-05/Study%20on%20the%20Dynamics%20of%20the%20Tajikistan%27s%20Coal%20Demand%20until%202050\_0.pdf |
| The use of high-resolution satellite imagery to identify methane emissions from underground mines: A CMM case study of a mine within the Karaganda Coal Basin | Mar 2023 | <https://unece.org/sites/default/files/2023-03/2023-03-07-Coal%20mines-%20Case%20Study-Clean%20Final.pdf> |
| Building Resilient Energy Systems: Technical Considerations and Actions for Achieving Greater Energy Security, Affordability and Net-zero in the ECE Region | 2022 | https://unece.org/sites/default/files/2022-11/Building%20Resilient%20Energy%20Systems%20in%20the%20ECE%20Region.pdf |
| Cultural issues: managing the social aspects of the transition of industries along the coal value chain and coal-dependent regions | Jan 2022 | https://unece.org/sites/default/files/2022-02/ECE.ENERGY.GE\_.4.2022.4%20Just%20Transition%20EN.pdf |
| Concept note: principles for consideration during closure of coal mines | Jan 2022 | https://unece.org/sites/default/files/2022-01/ECE.ENERGY.GE\_.4.2022.3%20ENG\_0.pdf |
| Energy Transition and the Post-Covid-19 Socioeconomic Recovery: Role of Women and Impact on Them | Dec 2022 | https://unece.org/sites/default/files/2022-12/286\_FINAL\_Energy%20Transition\_Role%20of%20women%20in%20PostCOVID19\_clean\_4%20December%20-%20Advance%20Copy%20%281%29.pdf |
| Promoting Gender Diversity and Inclusion in the Oil, Gas and Mining Extractive Industries | Jan 2019 | http://www.unece.org/fileadmin/DAM/energy/images/CMM/CMM\_CE/AHR\_gender\_diversity\_report\_FINAL.pdf |

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Supplementary Specifications for the Application of the United Nations Framework Classification for Resources to Minerals <https://unece.org/sites/default/files/2022-01/UNFC%20Mineral%20Specifications%202021.pdf>

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<https://unece.org/sites/default/files/2022-01/UNFC%20Petroleum%20Specifications%202021.pdf>

Supplementary Specifications for the application of the United Nations Framework Classification for Resources (Update 2019) to Geothermal Energy Resources  
<https://unece.org/sites/default/files/2022-12/UNFC_Geothermal_Specs_25October2022.pdf>

Specifications for the application of the United Nations Framework Classification for Resources to Bioenergy Resources  
<https://unece.org/fileadmin/DAM/energy/se/pdfs/UNFC/UNFC-Bioenergy-Specifications/Specification_Bioenergy.pdf>

Specifications for the application of the United Nations Framework Classification for Reserves (UNFC) to Solar Energy  
<https://unece.org/fileadmin/DAM/energy/se/pdfs/UNFC/UNFC_Solar_and_Wind_EnergySpecifications/UNFC_Solar_Specifications.pdf>

Specifications for the application of the United Nations Framework Classification for Reserves (UNFC) to Wind Energy  
<https://unece.org/fileadmin/DAM/energy/se/pdfs/UNFC/UNFC_Solar_and_Wind_EnergySpecifications/UNFC_Wind_Specifications.pdf>

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<https://unece.org/fileadmin/DAM/energy/se/pdfs/UNFC/Anthropogenic_Resources/UNFC_Antropogenic_Resource_Specifications.pdf>

Supplementary Specifications for the application of UNFC (Update 2019) to Injection Projects for the Purpose of Geological Storage  
[https://unece.org/sed/documents/2024/03/working-documents/supplementary-specifications-application-unfc-update-2019](https://unece.org/sites/default/files/2024-04/InjectionProjectsSpecsUpdated%20ECE\_ENERGY\_GE.3\_2024\_9\_ENG.pdf](https://unece.org/sed/documents/2024/03/working-documents/supplementary-specifications-application-unfc-update-2019%5d(https://unece.org/sites/default/files/2024-04/InjectionProjectsSpecsUpdated%20ECE_ENERGY_GE.3_2024_9_ENG.pdf)

Bridging Document between the Petroleum Resources Management System and the United Nations Framework Classification for Resources 2023 Update  
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Bridging Document between the Organisation of Economic Co-operation and Development Nuclear Energy Agency/International Atomic Energy Agency Uranium Classification and UNFC-2009  
<https://unece.org/fileadmin/DAM/energy/se/pdfs/comm23/ECE.ENERGY.2014.6_e.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/2023-12/RF-UNFC_BD_Petroleum_2023.pdf>

Bridging Document between the National Standard of the People’s Republic of China Classifications for Mineral Resources and Mineral Reserves (GB/T 17766-2020) and the United Nations Framework Classification for Resources (UNFC Update 2019)  
<https://unece.org/sites/default/files/2024-03/Updated%20Chinese%20Minerals-UNFC-BD%2025Oct2022_CEFR.pdf>

Bridging Document between National Standard of the People’s Republic of China “Classifications for Petroleum Resources and Reserves (GB/T 19492-2020)” and “United Nations Framework Classification for Resources (UNFC Update 2019)”  
<https://unece.org/sites/default/files/2024-04/Updated%20Chinese%20Petroleum-UNFC-BD%2025October%202022_CEFR_0.pdf>

Bridging Document between the CRIRSCO Template and UNFC]([https://unece.org/sed/documents/2024/02/working-documents/bridging-document-between-crirsco-template-and-unfc  
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<https://unece.org/sites/default/files/2023-02/1919051_E_ECE_ENERGY_109_WEB.pdf>

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<https://unece.org/DAM/energy/se/pdfs/UNFC/UNFC_GEOTH/1734615_E_ECE_ENERGY_110_WEB.pdf>

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<https://unece.org/DAM/energy/se/pdfs/UNFC/publ/20151221Case_studies-UandTh_Final.pdf>

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<https://unece.org/sites/default/files/2023-02/2229237_E_ECE_ENERGY_144_WEB.pdf>

UNRMS: An overview of concepts, objectives and requirements  
<https://unece.org/sites/default/files/2021-05/2017886_E_ECE_ENERGY_134_WEB.pdf>

UNFC and UNRMS - Systems approach to enabling the resource as a service paradigm through blockchain technologies  
<https://unece.org/sites/default/files/2022-03/ECE_ENERGY_GE.3_2022_5_ENG.pdf>

Sustainable management of critical raw materials required for the low-carbon energy transition  
<https://unece.org/sites/default/files/2022-09/ECE_ENERGY_2022_6%20CRMs.pdf>

Resources as a Service: A catalyst to accelerate the energy transition, safeguarding climate action targets within the circular economy  
<https://unece.org/sites/default/files/2022-09/ECE_ENERGY_2022_7%20RaaS_0.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>

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>

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>

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<https://unece.org/sites/default/files/2021-04/2016242_E_web.pdf>

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Carbon Neutrality in the UNECE Region Technology Interplay under the Carbon Neutrality Concept [Technology Interplay\_final\_2.pdf (unece.org)](https://unece.org/sites/default/files/2022-09/Technology%20Interplay_final_2.pdf)

Carbon Neutrality in the UNECE Region: Integrated Life-cycle Assessment of Electricity Sources [LCA\_0708\_correction.pdf (unece.org)](https://unece.org/sites/default/files/2022-07/LCA_0708_correction.pdf)

Rebuilding Ukraine with a Resilient, Carbon-Neutral Energy System [EN\_Rebuilding Ukraine with a Resilient Carbon-Neutral Energy System\_V8.pdf (unece.org)](https://unece.org/sites/default/files/2023-07/EN_Rebuilding%20Ukraine%20with%20a%20Resilient%20Carbon-Neutral%20Energy%20System_V8.pdf)

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Technology Brief Carbon Capture, Use and Storage [CCUS brochure\_EN\_final.pdf (unece.org)](https://unece.org/sites/default/files/2021-03/CCUS%20brochure_EN_final.pdf)

Technology Brief Energy Intensive Industries [Industry brief\_EN\_2\_0.pdf (unece.org)](https://unece.org/sites/default/files/2023-09/Industry%20brief_EN_2_0.pdf)

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Geologic CO2 storage in Eastern Europe, Caucasus and Central Asia [Geologic CO2 storage report\_final\_EN.pdf (unece.org)](https://unece.org/sites/default/files/2021-04/Geologic%20CO2%20storage%20report_final_EN.pdf)

Sustainable Hydrogen Production Pathways in Eastern Europe, the Caucasus and Central Asia [EN\_Sustainable Hydrogen Production Pathways\_final\_0.pdf (unece.org)](https://unece.org/sites/default/files/2023-03/EN_Sustainable%20Hydrogen%20Production%20Pathways_final_0.pdf)

Building Resilient Energy Systems: Actions for Achieving Greater Energy Security, Affordability and Net-zero in the UNECE Region [Resilient Energy Systems\_EN.pdf (unece.org)](https://unece.org/sites/default/files/2023-03/Resilient%20Energy%20Systems_EN.pdf)