



28th Session of the Committee on Sustainable Energy

Accelerating and Deepening the Transition of Sustainable Energy Systems

25-27 September 2019, Geneva



5. Sustainable Resource Management (cont)

ENERGY



Opening Remarks

Aleksandar Dukovski

Chair, Group of Experts on Energy Efficiency

Vice-Chair, Committee on Sustainable Energy

Agenda
Item 5

Weekly overview reminder

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	25 Sep	26 Sep	27 Sep
10.00 - 13.00	<p>Opening and administrative matters</p> <p>---</p> <p>Accelerating and deepening the Transition to Sustainable Energy Systems</p>	<p>Attaining carbon neutrality</p> <p>a) Modernization of energy infrastructure</p> <p>b) Decarbonising electricity</p> <p>c) Moderated discussion</p>	<p>Sustainable Resource Management cont.</p> <p>a) Efficiencies, cities and circular economy</p> <p>---</p> <p>3 Expert Groups</p> <p>---</p> <p>Gender and energy</p>
<i>Lunch</i>	<i>Energy Transition Toolkits</i>	<i>Energy Transition Toolkits</i>	
15.00 - 18.00	<p>Pathways to Sustainable Energy cont.</p> <p>---</p> <p>Policy dialogue with the Committee</p>	<p>Sustainable Resource Management</p> <p>a) Gas pathways to 2050 and RE</p> <p>b) Managing resources</p> <p>---</p> <p>3 Expert Groups</p>	<p>Regional outreach and collaboration</p> <p>---</p> <p>Future work of the Committee</p>



d) Efficiencies, Cities and Circular Economy



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Introductory remarks:

Aleksandar Dukovski, Chair, Group of Experts on Energy Efficiency, Vice-Chair, Committee on Sustainable Energy

Moderation:

Scott Foster, Director, Sustainable Energy Division, UNECE

Panellists:

Jenna Cramer, Executive Director, and **Megan Zeigler**, VP of Planning and Policy, Green Building Alliance, United States

Alisa Freyre, Projects Manager, Data and IT Solutions for Sustainable Energy, Services Industriels Genève, Switzerland

Gulnara Roll, Senior Economic Affairs Officer, Forestry, Housing and Land Management, UNECECEO, Unison Group, Kyrgyzstan

Nurzat Abdyrasulova, CEO, Unison Group, Kyrgyzstan

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d) Efficiencies, Cities and Circular Economy

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Discussion themes:

- “Smart” cities as catalyzers for change and to enhance quality of life
- Measurements of “smartness”, indicators, metrics and methods (digital technologies, geospatial etc)
- Case studies about data collection and use for building management and policy evaluation
- Discussion

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e) Groups of Experts on Energy Efficiency, Renewable Energy and Coal Mine Methane: Mandates and work plans

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Aleksandar Dukovski, Chair, Group of Experts on Energy Efficiency

Margalita Arabidze, Vice-Chair, Group of Experts on Renewable Energy

Raymond Pilcher, Chair, Group of Experts on Coal Mine Methane

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Group of Experts on Energy Efficiency



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Relevant Documents

- ECE/ENERGY/2019/8 – Work plan of the Group of Experts on Energy Efficiency for 2020-2021
- ECE/ENERGY/GE.6/2019/5 – Task Force on Industrial Energy Efficiency. Background paper on outcomes of workshops to promote energy efficiency in industry
- ECE/ENERGY/GE.6/2019/4 – Energy Efficiency Standards in Buildings. Background paper on main findings of the study on mapping of existing technologies to enhance energy efficiency in buildings in the ECE region
- ECE/ENERGY/GE.6/2019/3–ECE/ENERGY/GE.7/2019/3 – Workshop on the national sustainable energy action plans – from commitments to actions. Background paper on Sustainable Energy for All in Eastern Europe, the Caucasus and Central Asia

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Group of Experts on Energy Efficiency

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Presentation

Aleksandar Dukovski, Chair, Group of Experts on Energy Efficiency

- *Highlights: Implementation of the work plan for 2018-2019*
- *Future work plan for 2020-2021*
- *Industrial Energy Efficiency Task Force*
- *Joint Task Force on Energy Efficiency Standards in Buildings*
- *Request for mandate extension until the end of 2021*

Group of Experts on Energy Efficiency

Implementation of the work plan for 2018-2019



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- A. Exchange of experience to improve significantly energy efficiency in industry sector**
- B. Exchange of experience on standards and guidelines to improve significantly energy efficiency in buildings**
 - a) Framework Principles for Building Standards**
 - b) A set of train-the-trainer seminars on Framework Principles for Building Standards**
 - c) Mapping of energy efficiency standards and technologies in buildings:**
 - *Study on Mapping Energy Efficiency Standards and Technologies in Buildings in the UNECE Region (August 2018);*
 - *Study on Mapping of Existing Technologies to Enhance Energy Efficiency in Buildings in the UNECE Region (March 2019);*
 - *Compendium of best practices on standards and technologies for energy efficiency in buildings in the UNECE region (March 2019)*

Group of Experts on Energy Efficiency

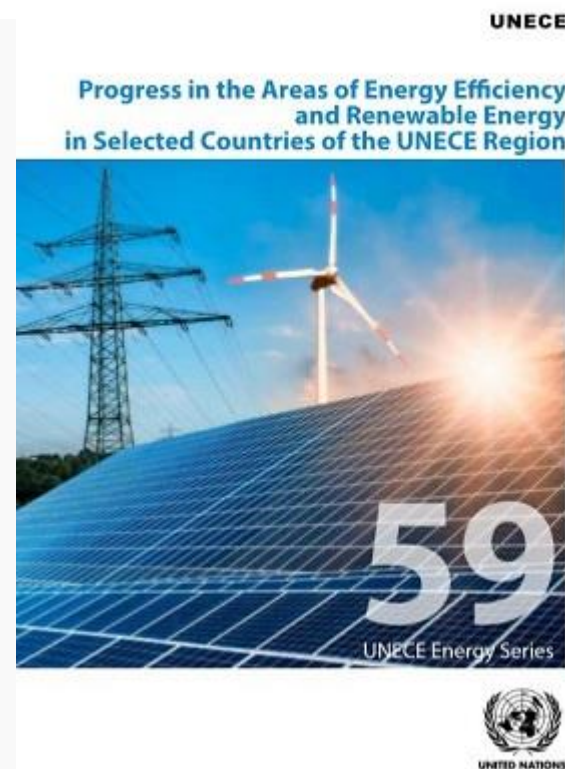
Implementation of the work plan for 2018-2019 (cont.)

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C. Regulatory and policy dialogue addressing barriers to improve energy efficiency

- *ECE/ENERGY/120 – Progress in the Areas of Energy Efficiency and Renewable Energy in Selected Countries of South-Eastern Europe, Eastern Europe, Central Asia, and in Russian Federation (Energy Series No. 59)*



- Workshop “National Sustainable Energy Action Plans – from Commitments to Actions” will take place on 8 October 2019 in Bangkok

Group of Experts on Energy Efficiency

Future work plan for 2020-2021

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A. Improving energy efficiency in industry

Deliverables:

- a) An industrial energy efficiency action plan
- b) An assessment of the roles of ECE and other stakeholder organizations in delivering on the action plan

B. Improving energy efficiency in buildings

Deliverables (dependent on extrabudgetary funding):

- a) Improved Framework Guidelines
- b) A set of workshops and train-the-trainer seminars on high performance energy efficiency standards in buildings in line with Framework Guidelines

Group of Experts on Energy Efficiency

Future work plan for 2020-2021 (cont.)

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C. Regulatory and policy dialogue addressing barriers to improve energy efficiency

Deliverables:

- a) A report on barriers, options, and best practices for energy efficiency improvements in the ECE region**
- b) A report on gender equality in energy efficiency (pending extrabudgetary resources);**
- c) A report on viable energy efficiency policies to reach “Pathways to Sustainable Energy” scenarios (pending extrabudgetary resources)**

D. Energy consumption and emissions of Electric Vehicles

Deliverables (dependent on extrabudgetary funding):

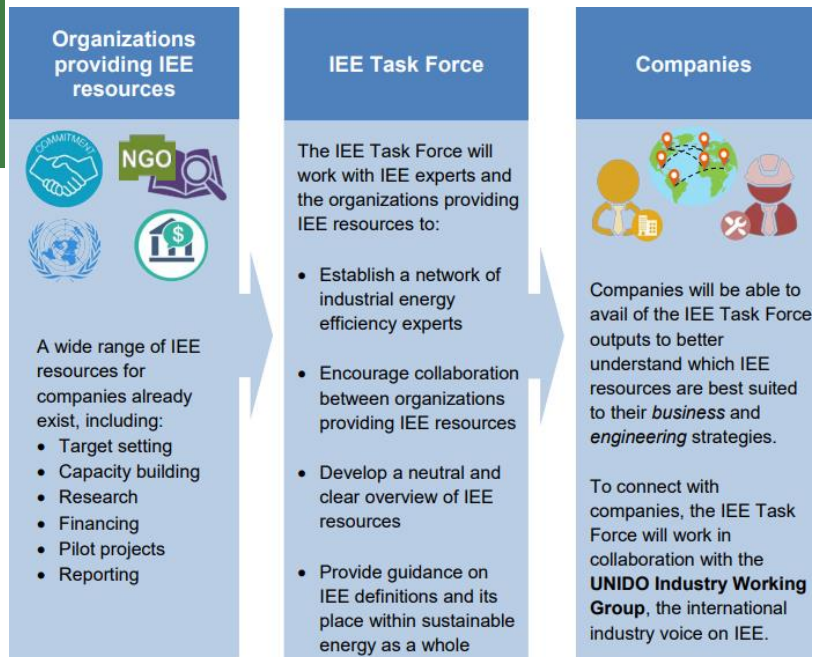
- a) Terms of Reference for a Joint Task Force on Energy Consumption and Emissions of EV**
- b) Method for monitoring and information of energy consumption and emissions of EV**

Group of Experts on Energy Efficiency

Industrial Energy Efficiency Task Force



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- Overview of non-governmental and intergovernmental energy efficiency initiatives to help companies decide which are most suited to help them pursue energy efficiency activities
- Workshop: 27-28 May 2019, Promoting Industrial Energy Efficiency in Ukraine and Neighbouring Countries, Kyiv
- Workshop: 7 October 2019, Industrial Energy Efficiency: Making better use of existing resources, 6th session of the Group of Experts in Bangkok

Group of Experts on Energy Efficiency

Joint Task Force on Energy Efficiency Standards in Buildings



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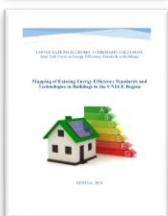


Framework guidelines for energy efficiency standards in buildings, research on existing energy efficiency standards and technologies in buildings in the UNECE region, etc.



Selected events organized in 2019 (under Regional Advisory Services):

- 14-15 March (Yerevan, Armenia): Energy Efficiency Standards and Technologies in Buildings in UNECE Region
- 12 April (Tbilisi, Georgia): Workshop on Energy Performance Buildings Standards
- 21-24 May (Minsk, Belarus): Training Workshop on housing management and energy efficiency in buildings. Promoting Sustainable Development Goals on Urban Development Housing and Land Management in the Republic of Belarus
- 9-10 July 2019 (Nizhny Novgorod, Russian Federation): Conference Economic Aspects of the Energy Efficiency of EU Countries. Workshop on Energy Efficiency in Industrial and Buildings Sectors



Planned:

- Workshop on Energy Efficiency in Buildings (6th session of the Group of Experts), 7 October 2019, Bangkok, Thailand
- Training Workshop on High Performance Buildings, 21-22 November 2019, Yerevan, Armenia



Group of Experts on Energy Efficiency

Request to renew the mandate for 2020-2021

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The Group of Experts is mandated to:

- Carry out concrete, results-oriented activities that in line with the 2030 Agenda for Sustainable Development, and in particular SDG 7 on clean and affordable energy
- Help significantly improve energy efficiency in the region, thus contributing to climate change mitigation efforts, and
- Strengthen regional cooperation, with a view to reducing greenhouse gas emissions

According to its Terms of Reference, the Group of Experts concentrates on:

- a) Regulatory and policy dialogue addressing financial, technical and policy barriers to improve energy efficiency, and
- b) Collecting and sharing experience and best practices in the field of energy efficiency in the ECE region, including on strengthening institutional capacity in energy efficiency to reduce greenhouse gas emissions

The Group of Experts requests the Committee on Sustainable Energy to renew its mandate until 31 December 2021, as contained in ECE/ENERGY/2019/8, with the possibility of extension, and approve Terms of Reference for the Joint Task Force on Energy Efficiency Standards in Buildings of the ECE Region for 2020-2021.

Group of Experts on Renewable Energy

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Presentation

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Margalita Arabidze

Vice-Chair, Group of Experts on Renewable Energy

- *Highlights: Implementation of the work plan for 2018-2019*
- *Future work plan for 2020-2021*
- *Request for mandate extension until the end of 2021*
- *Relevant doc: ECE/ENERGY/2019/9 - Work Plan of the Group of Experts on Renewable Energy 2020-2021*

Group of Experts on Renewable Energy

Implementation of the work plan for 2018-2019

ENERGY



Tracking progress in the uptake of renewable energy sources

- REN21 UNECE Renewable Energy Status Report (2015 & 2017, dissemination/use 2018)
- Methodology for assessing potential of wind and solar energy in the CIS country (2019)
- Financing EE and RE Investments for Climate Change Mitigation, Report (2019)

Exchange of experiences and good practices on how to increase the uptake of renewable energy

- Hard Talks events:
 - 2016-2017: Georgia, Ukraine, and Azerbaijan
 - 2018-2019: Kazakhstan, Bosnia and Herzegovina and Serbia
- Planned Hard Talks:
 - Russian Federation (tbc); other three multi-stakeholder dialogues planned in 2020
- 9th and 10th International Fora on Energy for Sustainable Development, 5th/ 6th session of the GERE (Kiev 2018; Bangkok, 7-8 October 2019)

Group of Experts on Renewable Energy

Implementation of the work plan for 2018-2019 (cont.)



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Matchmaking activities to support renewable energy investments

- Investment Matchmaking and RE discussions in Baku (2016), Astana (2017) and Kiev (2018) at the 7th, 8th and 9th International Fora on Energy for Sustainable Development

Cross-cutting cooperation to strengthen integration of renewable energy in future sustainable energy systems

- Cooperation with the Task Force on the Water-Food-Energy-Ecosystems Nexus (Water Convention) for the implementation of the Drina River Basin Follow-Up Project, better understanding of the intersectoral linkages between renewable energy development and water management

Group of Experts on Renewable Energy

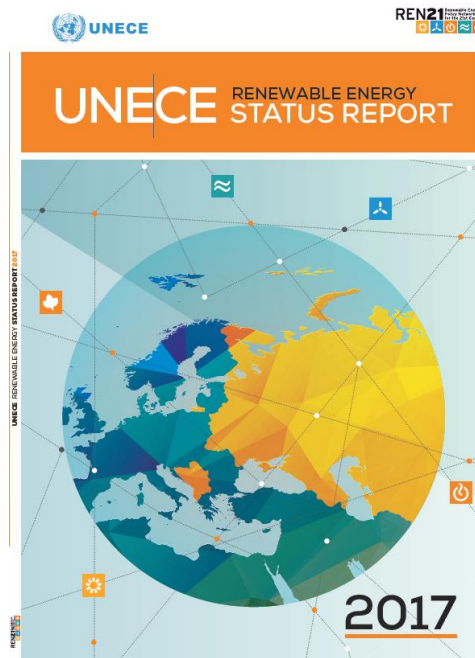
Implementation of the work plan for 2018-2019

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The UNECE REN21 Renewable Energy Status Report 2017

New edition
in 2020



REN21 Renewable Energy Policy Network for the 21st Century

UNECE

Gefördert durch:

Bundesministerium für Wirtschaft und Energie

aufgrund eines Beschlusses des Deutschen Bundestages

International Energy Agency



Group of Experts on Renewable Energy

Implementation of the work plan for 2018-2019



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Hard Talks: An Innovative Policy Dialogue Tool for Unblocking Renewable Energy Barriers to Investment

- A uniquely formatted **multi-stakeholder** dialogue:
 - Involved Ministries – Energy, Economy, Finance, etc.
 - Other key players – RES Agencies, Regulators, Network operators
 - Private sector – project developers, industry associations
 - Parliament, NGOs, media (2nd day)
 - Financial actors – IFIs, development banks and commercial lenders
 - International community – Donors, Consulates, etc.
- Adapted to the specifications and requirements of the host country
- Discussion guided by a **practical “problem/solution” Discussion Paper**
- **Neutral international facilitators** for the dialogue
- Involves two days – **one expert day** following by a **half day for high-level decision-makers** to deliver key messages from experts
- **Conclusion:** Discussion Paper is reformatted into a **“Recommendation Paper”** prioritizing the next steps which is sent to all participants and high-level decision-makers for further action

Renewal of Mandate and Work Plan 2020-2021

Future work plan for 2020-2021

ENERGY



Tracking progress in the uptake of renewable energy sources

- Review the state of development and monitor the progress of renewable energy in the region: REN21 UNECE Status Report (MoU with REN21);
- Identify ways to strengthen national action plans regarding RE;
- Identify obstacles for the development of renewable energies in countries: Hard Talks.

Renewal of Mandate and Work Plan 2020-2021

Future work plan for 2020-2021 (cont.)



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Exchange of experiences, good practices and multi-stakeholder dialogues on how to increase the uptake of renewable energy

- Exchange of information on RE policies and measures pointing out gaps across UNECE countries; FESD Forum/ Pathways to Sustainable Energy project;
- Supporting the assessment of cost-effective renewable energy options (cooperation with IRENA, MoU);
- Organize Hard Talks to promote dialogue among key stakeholders, enhancing cross-sectoral synergies;
- Strengthen cooperation between public and private sectors to promote market conditions and build capacities on RE project development.

Renewal of Mandate and Work Plan 2020-2021

Future work plan for 2020-2021 (cont.)

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Cross-cutting cooperation to strengthen integration of renewable energy in future sustainable energy systems

- Develop or update specifications for the application of UNFC to renewables (under the lead of Expert Group on Resources Management (EGRM))
- Identify opportunities for synergies on renewable energy (collaboration with other Groups of Experts, notably with the Group of Experts on Gas);
- Develop recommendations on inter-sectoral synergies to deploy renewable energy, notably through a “nexus” approach: coop. with the Task Force on Water-Food-Energy-Ecosystem Nexus and the Team of Specialists on Wood Energy.

Group of Experts on Renewable Energy

Request to renew the mandate for 2020-2021

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The Group of Experts is mandated to:

- Since its first session (November 2014), to implement concrete activities to help significantly increase the uptake of renewable energy in the region

According to its Terms of Reference, the Group of Experts focuses on activities related to:

- Regulatory and policy dialogue; and
- Sharing of best practices on various renewable energy sources with a view to increasing the share of renewables in the global energy mix.

The Group of Experts requests the Committee on Sustainable Energy to renew its mandate until 31 December 2021, as contained in ECE/ENERGY/2019/9, with the possibility of extension

Group of Experts on Coal Mine Methane

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Relevant Documents

- ***Best Practice Guidance for Effective Methane Recovery and Use from Abandoned Coal Mines***
ECE/ENERGY/2019/13
- ***Work Plan of CMM for 2020 – 2021***
ECE/ENERGY/2019/6

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Group of Experts on Coal Mine Methane

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Presentation

Ray Pilcher, Chair, Group of Experts on Coal Mine Methane

- **Highlights:** *Implementation of the work plan for 2018-2019*
- *Future work plan for 2020-2021*
- *Project on Modernization of the Energy Sector*
- *Request for mandate extension until the end of 2021*

Group of Experts on Coal Mine Methane

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2018-2019 Highlights

- **14 seminars and capacity-building workshops** delivered
- **BPG on AMM** developed
- **BPG on CMM** translated into **5 languages** and published in **electronic**, as well as **paper** version
- **Risk assessment tool** on gas control and explosion prevention developed
- **Two** fully established and operational **ICE-CMMs**
- Report ***Promoting Gender Diversity and Inclusion in the Oil, Gas and Mining Extractive Industries***
- Project on **Modernization of the Energy Sector**

Group of Experts on Coal Mine Methane

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2020-2021 Highlights

- **Dissemination activities of:**
 - **BPG on CMM**
 - **BPG on AMM**
- **Further work on AMM**
- **Work on surface mines and sustainable management of SMM**
- **Expanded cooperation with the existing ICE-CMMs and a quest for establishing new ones**
- **Implementation of the initial phase of the project on Modernization of the Energy Sector**

Group of Experts on Coal Mine Methane

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Modernization of the Energy Sector

➤ Work done:

- **Partnerships** built
- **Project structure** developed
- **Initial phase** ready for implementation
- **Grant application** developed

➤ Work planned for 2020-2021:

- **Initial workshops**
- Development of a **theoretical framework** for transition of the fossil fuels-based energy sector
- Paper on **practical aspects** of the implementation of the developed theoretical framework
- Selection and assessment of the **pilot industrial site**

Group of Experts on Coal Mine Methane

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Requested action from the Committee


➤ *Mandate extension until 2021*

Adoption of Conclusions and Recommendations

ENERGY



Document
ECE/ENERGY/123

United Nations		ECE/ENERGY/123
 Economic and Social Council		Distr.: General 3 October 2017 Original: English
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Economic Commission for Europe		
Committee on Sustainable Energy		
Twenty-sixth session Geneva, 26-28 September 2017		
Report of the Committee on Sustainable Energy on its twenty-sixth session		
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6. Gender and Energy

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Moderation: David MacDonald, Chair, Expert Group on Resource Management; Vice-Chair, Committee on Sustainable Energy

- **Harleen Kaur Sindhu**, Renewable Energy Lead, Shell Kazakhstan
- **Margalita Arabidze**, Deputy Head of Energy Policy Department, Ministry of Economy and Sustainable Development, Georgia and Vice-Chair of the Group of Experts on Renewable Energy
- **Nurzat Abdyrasulova**, CEO, Unison Group, Kyrgyzstan
- **Jenna Cramer**, Executive Director, Green Building Alliance, United States
- **Leslie Montgomery**, Education Senior Director, Global Building Alliance, United States

**Agenda
Item 6**

6. Gender and Energy

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Discussion themes:

Perspectives will cover why gender matters and how

- Regional initiatives for promoting renewable energy applications and new business models have been translating this untapped potential into a substantially narrower gender gap in energy;
- Barriers to women's economic empowerment can be overcome; and
- Some of the lessons learned on diversity and women empowerment could provide inspiration for attracting and retaining women professionals in the energy sector


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Adoption of Conclusions and Recommendations

ENERGY



Document
ECE/ENERGY/123

United Nations		ECE/ENERGY/123
	Economic and Social Council	Distr.: General 3 October 2017 Original: English
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