



28th Session of the Committee on Sustainable Energy

Accelerating and Deepening the Transition of Sustainable Energy Systems

25-27 September 2019, Geneva



3. Accelerating and Deepening the Transition to Sustainable Energy Systems

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High-level dialogue with countries

Introductory Remarks

Scott Foster

Director, UNECE Division on Sustainable Energy

Jürgen Keinhorst

Chair

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Roadmap for the Presentation

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1. Pathways to Sustainable Energy Project Phase I Review

- Pathways Project Design and Objectives
- Key Takeaways
- Detailed Scenarios and Modelling Results
- Proposed Concept for an Early Warning System for Policy Makers

2. Policy Recommendations from Phase I

Followed by:

- 1. Discussion with the Subsidiary Bodies**
- 2. Special Lunch Session with Partner Organisations - Energy Transition tools**
- 3. High-level Policy Dialogue with Countries**

3. Accelerating and Deepening the Transition to Sustainable Energy Systems

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Relevant Documents

- ECE/ENERGY/2016/7 – Pathways to sustainable energy – Concept note
- ECE/ENERGY/2018/1 – Pathways to sustainable energy – Status report
- ECE/ENERGY/2019/1 – Pathways to sustainable energy – Accelerating energy transition in the ECE region
- CSE-28/2019/INF.6 - Biographies of speakers
- CSE-28/2019/INF.8 – Detailed Activity Report
- CSE-28/2019/INF.9 – Glossary
- CSE-28/2019/INF.11 – Concept for an Early Warning System
- CSE-28/2019/INF.11 – Full long presentation of the results

High-level Segment – Dialogue with Countries

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Moderator: Sir Philip Lowe, Executive Chair, World Energy Council

Zoran Pačandi, Head of Service for Energy Efficiency and Renewable Energy Sources, Ministry of Environment and Energy, Croatia

Petr Bobylev, Deputy Chief of Electricity Development, Ministry of Energy, Russian Federation

Nurzat Abdyrasylova, Founder & CEO, Unison Group, Kyrgyzstan

Fuad Al-Zayer, Global Coordinator, Energy Data Transparency Initiative, International Energy Forum

John Roberts, Energy Security Specialist, Methinks, United Kingdom

David Jermain, Associate Director, Boston University Institute for Sustainable Energy, United States

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High-level segment – Dialogue with countries

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Discussion points:

- Energy market developments and driving forces of energy transition
- Affordable technologies and innovation in the region
- Voices from the subregional level
- Outlook and consequences for the sustainable energy subprogramme

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High-level segment – Dialogue with countries

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Discussion points:

- What is your opinion on the Pathways to Sustainable Energy project results?
- What is your country (incl. subregion) doing in attaining sustainable energy?
- What are the challenges and barriers in your subregion preventing attainment of sustainable energy?
- What are the opportunities to accelerate energy transition in your subregion? What are major driving forces of energy transition?
- To what extent does energy affordability influence the acceptance of specific technologies and innovation on subregional level?

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UNECE activities and standards in energy

Pathways to Sustainable Energy

Timeline

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Final Project Results
28th Session of the Committee on Sustainable Energy
25 September 2019, Geneva

Next Steps and Phase II
Subject to funding

Sep

Oct

Nov

Dec

Jan 2020

Final Project Reporting – Phase I Wrap-up

Outreach Workshop
Implementing Pathways Project in Central Asia
10th International Forum on Energy for Sustainable Development
8 October 2019, Bangkok

Pathways to Sustainable Energy - Potential Phase II



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1. Technological change is essential – *technology deep dives*

- Technological change and innovation need further scrutiny to refine data, assumptions, types of models and linkages, interpretations and trade-offs:
 - Deep dives on Natural Gas, Coal, Nuclear Power, Hydrogen
 - Others as requested and funded to complete the technology suite:
 - E.g. deep dives on Renewable Energy, Energy Efficiency, Power-to-X, Storage
 - Impacts of investing in clean fossil structures on the system
 - Impacts of methane management on the system
 - Nexus synergies
 - Cost and affordability across the region

2. Insights for regional approaches are necessary - *subregional deep dives*

- Further analysis at the subregional level can improve understanding of conditions of infrastructure, governance, quality of life and role of different technologies. Proposed subregional deep-dives:
 - Caucasus
 - Central Asia
 - Belarus, Moldova and Ukraine
 - South East Europe

Pathways to Sustainable Energy - Potential Phase II (cont.)



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3. Exploring alternative nexus approaches and business models

- Energy transition: risk and uncertainties, aka critical raw materials, access, scale up, implementation
- Water and Energy nexus
- Food and Energy nexus
- Health and Energy nexus
- Assessment of alternative business models: traditional, large-scale utilities; distributed generation; energy service companies; green energy etc.
- Use of Life Cycle Assessment to evaluate the global environmental impact of new approaches

4. Early Warning System and Global Tracking Framework Report

- Preparation of the status report on progress of the UNECE region in meeting commitments of the 2030 Agenda and the Paris Climate Agreement

5. Testing Strategic Options

- Testing strategic options by using project's models and the outcomes of the technology and regional assessments

Pathways to Sustainable Energy - Potential Phase II (cont.)



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6. High-Level Political Dialogue on Project Outcomes:

- Enhance awareness of countries' choices to tighten commitments and accelerate action on energy for sustainable development. UNECE can provide platform for such high-level political messages

7. Dissemination of Project Results

- Engagement with countries and stakeholders to disseminate project results and to discuss the results and implications of the project findings at national and local level
- Build member State engagement and collaborations
- Integration of outputs into expert groups and partner organisations

3. Accelerating and Deepening the Transition to Sustainable Energy Systems

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Dialogue with the Committee and its Stakeholders

- Reactions and recommendations from the Committee and its stakeholders
- Exploring Phase II and next steps
- Implications for the work of the sustainable energy subprogramme and ways of working


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Adoption of Conclusions and Recommendations

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Document
CSE-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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Summary and Conclusions

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Concluding Remarks

Jürgen Keinhorst

Chair, Committee on Sustainable Energy

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Thank you!

Sustainable Energy Division

UNECE

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