

Twenty-seventh session of the Committee on Sustainable Energy

26-27 September 2018, Geneva, United Nations, Palais des Nations

SESSION STRUCTURE TO THE ANNOTATED PROVISIONAL AGENDA

26 September 2018 from 10.00-13.00

Opening and adoption of the agenda; Matters related to the Committee on Sustainable Energy

26 September 2018, 10.00-10.20, Room XXVI

Agenda Items 1, 2

10.00-10.20 Opening and adoption of the agenda

- Opening of the session and welcome remarks
Jürgen Keinhorst, Chair, Committee on Sustainable Energy
Scott Foster, Director, Sustainable Energy Division, UNECE
- Administrative matters, adoption of the agenda and Bureau elections

Accelerating and Deepening the Transition to Sustainable Energy Systems; Pathways to Sustainable Energy

26 September 2018, 10.20-12.45, Room XXVI

Agenda Item 3

10.20-10.50 Accelerating and deepening the transition to sustainable energy systems Pathways to Sustainable Energy

Project update: Defining sustainable energy, modelling approach and preliminary results
UNECE secretariat and H-Holger Rogner, Senior Research Associate, IIASA

On behalf of the modelling team, Mr. Rogner will present the preliminary results of the “Pathways to Sustainable Energy” project, which began in early 2017. The project aims to strengthen the capacities of UNECE member States to achieve the energy-related Sustainable Development Goals (SDGs) by providing insights into possible futures for national, regional and global actions. The project team will share the latest findings and recommendations from workshops including selected preliminary climate, technology and policy scenarios. The presentation will be followed by a keynote address and moderated discussion about possible policy options and challenges. The Committee’s reactions and recommendations will shape the next project phases and might lead to new analysis foci and deep dives. For example, this may include regional, technology or policy variants, high-level policy dialogues, and the development of the early warning system.

10.50-11.10 Keynote address

Graeme Maxton, Economist, author and former Secretary General of the Club of Rome

The Committee might remember Mr. Maxton’s keynote speech from the twenty-fifth session when he provided the context for the deliberations with findings from the book “The Limits to Growth”. His thinking around economic systems, energy and climate has evolved since then. This time, Mr. Maxton will share his insights and recommendations about the transition to a more sustainable economic system, and he will present new proposals in energy.

The objective of his keynote address is not to present a cheery view of options, rather to challenge the Committee and participants to think holistically and realistically about the future, reminding them of the urgency, the scale of change needed and what is at stake for humanity – given the ongoing warming of the planet. Building on the willingness of so many to make a difference and contribute to change, participants are invited to present what they are already doing successfully so that the intentions of the Pathways project can be solidified, and practical recommendations can be developed that have been vetted and tested to allow the much-needed deepening and acceleration of the transition to sustainable energy systems.

Mr. Maxton will present his account about what will happen without change, what is needed to change - building on a realistic vision about the future, what this transition will cost and what the challenges are to make it happen. The following discussion will shed light onto some of the challenges of the ongoing energy transition and the role that the committee and its subsidiary bodies can play to accelerate further and deepen the transition.

11.10-12.45 Policy dialogue on how the UNECE Region can achieve Sustainable Energy in 2050

11.10-11.50 PART I: Panel Discussion with Member States

Moderator: Graeme Maxton

Discussion themes

- What are your reactions to the preliminary results? Are the proposals realistic? What will remain unknown?
- What are the main barriers preventing an acceleration of the transition? How could these be overcome? Who is responsible for the change, and who is delaying it?
- Can you think of a successful national approach or strategy to achieve sustainable energy? What worked and what did not and why?
- What is your preference with regard to policy scenarios and options for facilitating an accelerated and comprehensive energy system transition? Which themes would deserve a deep-dive?
- What are successful emerging business models and technology innovation in various UNECE sub-regions?
- What elements would you like to see in the early-warning concept? How could it be implemented?

Panellists

George Chikovani, Deputy Minister, Ministry of Economy and Sustainable Development, Georgia

- What are the most important elements in Georgia's National Action Plans for Renewable Energy and Energy Efficiency? What works and what does not and why?
- Will these strategies allow Georgia to deliver the full spectrum of sustainable energy including economic, social and environmental aspects?

Sergio Garribba, Advisor on Energy Policy to the Minister of Economic Development, Italy

- How does Italy plan to achieve energy sustainability, in particular with a view to the required need to modernize its energy infrastructure? What will the future energy mix look like?
- Can successful emerging business models be shared?

Talgat Karashev, Executive Director for International Cooperation of KAZENERGY, Kazakhstan

- How is Kazakhstan, as resource rich country, moving towards sustainable energy and modernization of energy infrastructure?
- What is the role of regional collaboration and energy trade in Central Asia?

Nataliya Boyko, Deputy Minister of Energy and Coal Industry, Ukraine / Vice-Chair, Committee on Sustainable Energy

- How do energy security and geopolitical tensions shape Ukraine's national energy policy making? What is the role of regional cooperation?
- How are environmental aspects integrated in achieving sustainable energy?

Barry Worthington, Executive Director, The United States Energy Association, United States / Chair, Group of Experts on Cleaner Electricity Production from Fossil Fuels

- What is the role of fossil fuels in the transition towards a sustainable energy system? What is the future of coal and gas?
- What climate, technology or policy scenarios would be interesting to analyse in more detail from the perspective of the United States?

11.50-12.45 PART II: Broader Stakeholder Discussion

After the panel discussion among countries, the Committee's stakeholders including the diverse Pathways stakeholder community will have the floor for contributions.

Moderated discussion with member States, subsidiary bodies and project stakeholders

Representatives of international organisations, private sector, academia, civil society
Chairs of the Expert Groups
Members of the Pathways Technical Advisory Board and Pathways Donors
Representatives of member States

The role of the Committee on Sustainable Energy and its subsidiary bodies in supporting the 2030 Agenda on Sustainable Development

26 September 2018, 12.45-13.00, Room XXVI

Agenda Item 4

12.45-13.00 Review of structure of CSE and its subsidiary bodies

Introduction by the UNECE secretariat

This brief introduction seeks to frame the following discussions of the Committee and its Groups of Experts. In the afternoon session of 27 August, the Committee will be invited to provide guidance on the future direction of its programme of work in preparation of its twenty-eighth session, in which it will be requested to renew mandates and approve the future programme of work. This discussion might include a structure that allows an effective and streamlined role of the subsidiary bodies to support desired outcomes. Overall, the programme of work shall help to accelerate the delivery of energy for sustainable development and concretise the Committee's reputation as a credible and relevant partner.

26 September 2018 from 15.00-18.00

The role of the Committee on Sustainable Energy and its subsidiary bodies in supporting the 2030 Agenda on Sustainable Development

Methane management in extractive industries

26 September 2018, 15.00-16.30, Room XXVI

Agenda Item 4(a)

15.00-15.05 Opening of the segment

Chair: Raymond Pilcher, Vice-Chair, CSE

15.05-15.40 Panel: Transition of the energy sector

Moderator: Raymond Pilcher, Chair, UNECE Group of Experts on CMM

Panellists:

Hans-Rüdiger Lange, Managing Director, Innovationsregion Lausitz GmbH
 David Jermain, Senior Research Fellow, Institute for Sustainable Energy, Boston University (tbc)
 Representative of Kazakhstan

Discussion themes:

- Energy transition; reality, challenges, and opportunities.
- Modernization of the energy infrastructure.
- Costs and benefits: environmental, social, and economic aspects of the unavoidable transformation.
- Review of the existing projects and initiatives addressing the issue.

15.40-16.15 Panel: Methane Management in the Oil and Gas Industries

Moderator: Francisco de la Flor, Chair, UNECE Group of Experts on Gas

Panellists:

Grant Wach, Professor of Petroleum Geoscience & Stratigraphy, Dalhousie University, Halifax, Nova Scotia
 Stéphanie Want, Climate Change Senior Advisor, Total, representing OGCI
 Torleif Haugland, Senior Partner, Carbon Limits, Consultant, UNECE
 Monica Shimamura, Director, Administrative Support Group, The Global Methane Initiative Secretariat

Discussion themes:

- Methane emissions: the scale of the problem and the science behind it - quantity and distribution of methane emissions.
- Practices for measuring, monitoring and reporting (MRV) methane emissions in the oil and gas industry.
- Potential for reducing methane emissions in the oil and gas industry.
- Obstacles to capitalizing on the existing opportunities and ways to overcome them.
- Economics of methane emissions.
- Work already undertaken; existing projects and initiatives focused on MRV and mitigation of methane emissions.

16.15-16.20 Report on Activities of the Group of Experts on Coal Mine Methane

Raymond Pilcher, Chair, UNECE Group of Experts on CMM

16.20-16.30 Report on Activities of the Group of Experts on Gas

Francisco de la Flor, Chair, UNECE Group of Experts on Gas

The role of the Committee on Sustainable Energy and its subsidiary bodies in supporting the 2030 Agenda on Sustainable Development

Sustainable resource management

26 September 2018, 16.30-18.00, Room XXVI

Agenda Item 4(b)

16.30-16.35 Opening of the segment

Chair: Raymond Pilcher, Vice-Chair, CSE

16:35 – 17:15 Panel: Sustainable Resource Management: Aligning with the 2030 Agenda

A panel of international experts will discuss the role that the United Nations Framework Classification for Resources (UNFC) could and should play in framing and guiding natural resource management. The role and importance of sustainable resource management in attaining the 2030 Agenda will be explored.

Moderator: Igor Shpurov, First Vice-Chair, Expert Group on Resource Classification (EGRC)

Panellists:

Julian Hilton, Chair, EGRC Sustainable Development Goals Delivery Working Group
Yanchun Zhang, Chief, Commodity Policy Implementation & Outreach Section, UNCTAD
Satinder Purewal, Chair, EGRC Petroleum Working Group
Patrick Wäger, EGRC Anthropogenic Resources Working Group

Discussion themes:

1. Opportunities and challenges in aligning sustainable resource management to the 2030 Agenda: Path towards a United Nations Resource Management System (UNRMS)
2. Macroeconomic management of resources for sustainable development
3. Integrated management of total resources: UNFC-UNRMS specifications and guidelines
4. Circular economy and secondary resource management: how UNFC's Anthropogenic Resource Specifications can act as an enabler

17:15 – 18:00 New directions for the Expert Group on Resource Classification

17.15 – 17:30 Ju Jianhua, Director-General, Mineral Resources and Reserves Administration, Ministry of Natural Resources, People's Republic of China: Achievements and Outlook for Cooperation between the Ministry of Natural Resources of People's Republic of China and UNECE

17.30 – 18.00 Igor Shpurov, General Director, Russian State Committee on Mineral Reserves and First Vice-Chair, Expert Group on Resource Classification: Activities and new directions for the Expert Group:

- Work plan of the Expert Group 2018–2019 including endorsement of documents
- Endorsement of UNFC's bridging documents to national systems of China
- Endorsement of Anthropogenic Resources Specifications
- New focus on resource management:
 - Development of UNFC-based United Nations Resource Management System (UNFC/UNRMS)
 - Proposal for change of name to Expert Group on Resource Management (EGRM)
 - Revised Terms of Reference for Expert Group on Resource Management
- Discussion
- Concluding remarks

27 September 2018 from 10.00-13.00

The role of the Committee on Sustainable Energy and its subsidiary bodies in supporting the 2030 Agenda on Sustainable Development

Transition to sustainable energy systems

27 September 2018, 10.00-12.30, Room XXVI

Agenda Item 4(c)

As energy is widely considered a golden thread underpinning all Sustainable Development Goals, the same can be said for electricity from production to consumption. Transformative activities are only as rapid and far reaching as the grid infrastructure and the electricity system can follow. As the fast-paced energy transition is affecting all aspects of electricity, both opportunities and threats continue to emerge. A panel of international experts will discuss the role of electricity in achieving the 2030 Agenda through promoting interconnectivity, synergies, grid resilience, energy security and, overall, increasing the share of renewable energy in electricity generation. The focus of the discussion will be the cost of transformation and the need to support the transition of countries and sectors and promote investment to a cleaner electricity system for enhanced decarbonisation and grid resiliency.

The session, jointly led by the Groups of Experts on Cleaner Electricity Production from Fossil Fuels and on Renewable Energy, will allow an exchange of views on all aspects of systems transformation and resiliency to low-carbon energy supply. The Committee will be asked to consider a widened mandate for the Group of Experts on Cleaner Electricity Production from Fossil Fuels in this new context.

Please come equipped with an honest view – all options are open, and all contributions are allowed, except for slides.

Key motivations:

1. How can the sustainable energy subprogramme make a real difference for countries? Allow to set key priorities of value added for programme of work of Committee and subsidiary bodies; use outcomes of session to shape activities of sustainable energy programme.
2. Raise the awareness of the scale and the urgency of problems and solutions (e.g. reduce carbon emissions at the same time as doubling energy services for a fast-increasing population).
3. Enhance collaboration with the private sector.
4. Reinvent energy as a service industry - consider new business models, innovation.
5. Work with the traditional sectors to embrace and enhance transition and transformation proactively – build on its technical, financial, resource capability to transform the sector – develop transformational investment; redefine the utilities industry
6. All options, all pathways are allowed.

Approximate timing:

30 min contributions by individual panellists
 30 min discussion among panellists on selected questions
 30 min interaction with the floor
 10 min summary looking at the results

10.00-10.05 Opening of the segment

Chair: Sergio Garribba, Vice-Chair, CSE

10.05-11.35 Panel: Deep transformation of the energy system through electricity

Moderator: Aleksandar Dukovski, Chair, Group of Experts on Energy Efficiency (GEEE) and Vice-Chair, CSE

Panellists 5 min each, then interactive discussion, two questions

1. How will the world look like in 2030? In 2050? How will the energy system develop during that period in general?

- Transforming to low-carbon energy system: choices, interconnectivity, digitalization, security and cost
- 2. How would you achieve your vision (given limited or unlimited time; limited or unlimited access to funding)? (e.g. If the time period is 10 years to decarbonise the energy sector in your area, how would you do it?)
- 3. Which major challenge(s) do you foresee to achieve this vision?
- 4. What does this mean for the future programme of work of the Committee and its subsidiary bodies? Priorities.

Barry Worthington, Chair, Group of Experts on Cleaner Electricity Production and Vice-Chair of the CSE

- What emerging business models could drive the transformation? In which sector?
- Addressing the cost of transformation, stranded assets? How? Who to finance?

Vladimir Budinsky, Vice-chair, Group of Experts on Cleaner Electricity Production

- What emerging business models could drive the transformation? In which sector?
- Addressing the cost of transformation, stranded assets? How? Who to finance?

Margalita Arabidze, Georgia, Vice-chair, Group of Experts on Renewable Energy

- What are the interplays between renewable energy and fossil energy in future systems?
- What radical policies would transform the sector and lead to deep transformation?

Francisco Laveron Simavilla, Iberdrola

- What emerging business models could drive the transformation? In which sector?
- Addressing the cost of transformation, stranded assets? How? Who to finance?
- What are the interplays between renewable energy and fossil energy in future systems?

Andrew Minchener, General Manager, IEA Clean Coal Centre

- What emerging business models could drive the transformation? In which sector?
- What are the interplays between renewable energy and fossil energy in future systems?

Deger Saygin, SHURA Enerji Dönüşümü Merkezi, Turkey

- What emerging business models could drive the transformation? In which sector?
- What are the interplays between renewable energy and fossil energy in future systems?
- What radical policies would transform the sector and lead to deep transformation?
- Socio-economic input to solutions?

11.35-11.45 Wrap up and priority setting

Moderated summary discussion: Outputs of the panel and potential future activities; priority setting

Moderator: Aleksandar Dukovski, Barry Worthington and Sergio Garribba

NB – the discussion on challenges and priorities will be noted on screen to facilitate the interactions in this wrap up

Regional Outreach

International Forum on Energy for Sustainable Development

27 September 2018, 11.45-12.00, Room XXVI

Agenda Item 5(a)

11.45-11.50 Opening of the segment

Chair: Sergio Garribba, Vice-Chair, CSE

11.50-12.00 **Presentation: Ninth International Forum on Energy for Sustainable Development**

Nataliya Boyko, Vice Minister, Ministry of Energy and Coal Industry, Ukraine, Vice-chair, CSE

Ms. Boyko will provide an overview of the status of the preparations for the Ninth International Forum on Energy for Sustainable Development to be hosted by Ukraine in Kiev on 12–15 November 2018 (ECE/ENERGY/113, para. 30). The focus of the event will be about closing the gap between action and ambition in the context of accelerating efforts. The intent is to agree on a balanced set of options of what countries could do concretely and effectively and to inform the programme of work of the ECE sustainable energy subprogramme.

The discussion will extend to the Tenth International Forum on Energy for Sustainable Development, likely hosted by a member State of the United Nations Economic and Social Commission for Western Asia (UN ESCWA) in 2019.

The role of the Committee on Sustainable Energy and its subsidiary bodies in supporting the 2030 Agenda on Sustainable Development

Transition to sustainable energy systems

27 September 2018, 12.00-13.00, Room XXVI

Agenda Item 4(c)

12.00-13.00 **Panel: Energy efficiency in industry**

At its twenty-fifth session, the Committee endorsed the activities to develop standards related to energy efficiency in buildings (ECE/ENERGY/113, para. 53). This time, the Committee will be informed of progress related to energy efficiency in industry through a newly established Task Force on Industrial Energy Efficiency (ECE/ENERGY/2018/10 -ECE/ENERGY/GE.6/2018/3). The Committee will be invited to endorse the Terms of Reference for the Task Force on Industrial Energy Efficiency in the ECE Region for 2019–2020.

The Chair of the Bureau of the Group of Experts on Energy Efficiency will report on the implementation of the work plan for 2018–2019, Bureau work and the main developments since the twenty-sixth session.

Moderator: Aleksandar Dukovski, Chair, Group of Experts on Energy Efficiency (GEEE)

Presentation of the Task Force on Industrial Energy Efficiency

Hannes Mac Nulty, Vice-chair, GEEE

Panellists

George Chikovani, Deputy Minister, Ministry of Economy and Sustainable Development, Georgia

Boris Melnichuk, Expert, Board on Energy Efficiency under the Government of the Russian Federation

Jean Garandel, Utility and industrial services expert, Givaudan International

Discussion themes

- How industrial energy efficiency fits into the overall sustainable energy picture?
- What are its non-energy benefits for businesses?
- How can government policies respond better to the need for support of the business case for industrial energy efficiency?

Report on the implementation of the work plan of GEEE for 2018–2019

Aleksandar Dukovski, Chair, GEEE

27 September 2018 from 15.00-18.00

Regional Outreach

Progress on regional advisory services

27 September 2018, 15.00-15.30, Room XXVI

Agenda Item 5(b)

15.00-15.30 Progress on regional advisory services

The Regional Advisor will brief the audience about activities and project implementation related to the regional advisory services. This includes the status of various projects under the “United Nations Development Account” (UNDA) and other extra-budgetary projects.

Future work of the Committee on Sustainable Energy

27 September 2018, 15.30-18.00, Room XXVI

Agenda Items 6, 7(a-d)

15.30-16.15 Consultation of the role of the Committee and Future work of the CSE Reform of the United Nations planning and budgeting process

Presentation by the secretariat

Moderated discussion by the Chair.

The Committee will be informed of developments regarding the newly introduced annual budget period and the preparation of the proposed programme budget for 2020 and implications for the work of the Committee.

The Committee will be invited to draw conclusions and issue recommendations for the work of the subprogramme on sustainable energy and its subsidiary bodies, taking into consideration the deliberations of the twenty-seventh session.

16.15-16.25 Approval of documents

Jürgen Keinhorst, Chair, Committee on Sustainable Energy
Scott Foster, Director, Sustainable Energy Division, UNECE

The Committee will be requested to note or approve a range of documents to support the implementation of the previously mandated areas of work and/or extend respective mandates.

Approve:

ECE/ENERGY/2018/7 – Provisional calendar of meetings for 2019

ECE/ENERGY/2018/8 – Draft publications plan for 2020

The Committee will further be invited to agree to the provisional calendar of meetings for 2019 (ECE/ENERGY/2018/7) and the draft publications plan for 2020 (ECE/ENERGY/2018/8).

16.25-16.30 Any other business

Jürgen Keinhorst, Chair, Committee on Sustainable Energy

Brief discussion about gender issues possible here if not done before (e.g. under regional advisory) to make recommendations about increasing the Committee’s involvement in energy and gender activities.

16.30-18.00 Adoption of the report and close of the meeting

Jürgen Keinhorst, Chair, Committee on Sustainable Energy

The Chair will summarize the major decisions, conclusions and recommendations taken by the Committee.

The Committee will be invited to adopt its report based on a draft prepared by the secretariat.

Adopt:

ECE/ENERGY/119 - Report of the Committee on Sustainable Energy on its twenty-seventh session