Informal, open-ended consultation of the Committee on Sustainable Energy

16 May 2019, Geneva
Morning

Pathways to Sustainable Energy project

- Summary of process, approach, results
- Report back from the workshop 14-15 May 2019
- Policy recommendations, technology options and early warning system concept
- Reactions by the six Expert Groups
- Feedback, impressions, recommendations

Afternoon

Restructuring the work of the sustainable energy subprogramme

- Draft strategic review
- Impacts for Committee and Expert Group work
- Discussion and recommendations for the subprogramme
Pathways to Sustainable Energy
Presentation of Process, Approach and Results
How can the UNECE Region attain Sustainable Energy (SE)?

- **Current Phase:** May 2017 – Dec 2019 (further phases planned)

- **Outputs**
  - **Pathways and Scenario Development**
    - Sub-regional modelling of SE scenarios to 2050
    - Policy and technology options
  - **Policy dialogue**
    - Adaptive policy pathways
    - Policy dialogues
    - Sub-regional workshops
  - **“Early-warning system” development**
    - SE Targets
    - Key Performance Indicators (KPIs)
    - Signposts

https://www.unece.org/energy/pathwaystose.html
Purpose of Consultations:

- To develop final project outputs together with stakeholders
- To identify and test key messages and policy recommendations
- To seek inputs for future phases of the project, closely aligned to the scope of work of the Committee and its subsidiary bodies

Timeline:

- May 14-15, outreach **workshop** with member States
- May 16, Committee on Sustainable Energy **open-ended consultation meeting**
- April 4, **webinar** on preliminary key findings from Groups of Experts
- September 25-27, **High-Level Political Dialogue**
Key Messages and Insights

- Presentation by H.-Holger Rogner, IIASA
Report back from the Workshop

- Presentation by Aleksandar Dukovski, Chair of the Group of Experts on Energy Efficiency, Vice-chair of the Committee, and focal point for Pathways
Proposed Policy Recommendations & EWS

▪ Presentation by Aleksandar Dukovski, Chair of the Group of Experts on Energy Efficiency, Vice-chair of the Committee, and focal point for Pathways
Discussion with the Expert Groups I

- Group of Experts on Energy Efficiency (GEEE) – Aleksandar Dukovski, Chair
- Group of Experts on Renewable Energy (GERE) – Nazir Ramazanov, Chair
- Group of Experts on Cleaner Electricity Systems (CES) – Igor Litvinyuk for Barry Worthington, Chair
- Group of Experts on Coal Mine Methane (CMM) – Michal Drabik, secretary, for Raymond Pilcher, Chair
- Group of Experts on Gas (GEG) – Francisco de la Flor Garcia, Chair
- Expert Group on Resource Management (EGRM) – Sigurd Heiberg and Anastasia Ioannou, for David MacDonald, Chair
• How can countries attain Sustainable Energy?

• What role do respective technologies play in the transition of the energy system?

• Which policy recommendations would the Expert Group like to suggest?

• Observations and remarks for the Committee on Sustainable Energy, stakeholders, e.g. on nexus, synergies, project gaps, next steps etc.
Reactions and Recommendations

**Phase I:**
- Impressions and feedback on the project, proposed key messages, policy recommendations, technology options and early-warning system concept
- Recommendations for the 28\textsuperscript{th} session documents: policy recommendations
- High-level political dialogue
- Next steps for Pathways to Sustainable Energy

**Phase II:**
- Impacts for technology or regional deep dives, other topics
- Gap analysis
Restructuring of the work of the sustainable energy subprogramme

Draft strategic review document

Scott Foster, Director, UNECE
Sustainable Energy Subprogramme

The Committee on Sustainable Energy is an intergovernmental body that provides member States with a platform for international dialogue and cooperation among governments, energy industries and other stakeholders.

UNECE’s work on sustainable energy is designed to improve access to affordable and clean energy for all and help reduce greenhouse gas emissions and the carbon footprint of the energy sector in the region.
Committee on Sustainable Energy

- Expert Group on Resource Management (EGRM)
- Group of Experts on Cleaner Electricity Systems (GE CES)
- Group of Experts on Energy Efficiency (GEEE)
- Group of Experts on Gas (GEG)
- Group of Experts on Renewable Energy (GERE)
- Group of Experts on Coal Mine Methane (GE CMM)
1. **Objective**: make concrete, measurable progress towards the 2030 Agenda; Ensuring energy makes an enduring contribution by reducing CO₂ emissions and meeting quality of life aspirations.

2. **Realities**: fossil resource base, energy security, and regional cooperation are critical topics.

3. **UN brand**: UNECE is the United Nations regional commission for its member States.

4. **Impact**: Energy sub-programme is recognized for thought leadership on the critical energy issues for which it has been entrusted.
Opportunities

1. Expertise, management capabilities, technology, and financial wherewithal: can drive transformation in countries and contribute globally.

2. Committee and expert groups recognized as a neutral platform to engage countries.

3. Vast network of experts/stakeholders to develop solutions.

4. Regional advisory services can provide countries with concrete support.

5. UN development system enhancing effectiveness. Energy sub-programme can contribute.

6. UNECE orienting to concrete outcomes in nexus areas that require strong support from energy.
Challenges

1. Falling short on energy objectives; need to accelerate transformation.

2. Current mandates cannot be served by existing regular budget resources alone
   - Regular budget is under severe pressure.
   - Need extrabudgetary funds to deliver, but hard to receive funds efficiently
   - Current extrabudgetary funds from 56 member States falls short; other sources essential.

3. Admin burden in the current structure is significant
Sustainable Energy Subprogramme

Deep Transformation of the Energy System

Energy Pathways: the Golden Thread of the 2030 Agenda

Sustainable Resource Management

Deep Engagement of Partners: Governments, IGOs, NGOs, Private Sector, Academia,

Reducing the Environmental Footprint of the Energy Sector
Committee on Sustainable Energy Subprogramme

- Sustainable Resource Management
- Pathways & Indicators
- Partnerships & Regional Advisory Service
- Environmental Footprint of Energy
- Deep Transformation

Sustainable Energy Subprogramme
Sustainable Energy Subprogramme

Sustainable Resource Management
- EGRM
- GERE
- CMM

Resource Efficiency and Circular Economy

Environmental Footprint of Energy
- CES (HELE, CCS)
- CMM
- GEG

Methane Management

Deep Transformation
- GEEE
- GERE
- GEG

CES (digital; energy system integration; market design)

Smart, Sustainable Cities

Regional Transformation & Integration

Pathways & Indicators
# Sustainable Energy Contributions to Nexus Activities

<table>
<thead>
<tr>
<th>Nexus Areas</th>
<th>Contributing Areas from SED</th>
<th>Contributing Activities</th>
<th>Leads and UNECE Partners</th>
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<tbody>
<tr>
<td>Sustainable Resource Management</td>
<td>EGRM; GERE; CMM; Circular Economy</td>
<td>Framework Classification and Resource Management System</td>
<td>SED, ENV, Forests, Statistics</td>
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<tr>
<td>Smart, Sustainable Cities</td>
<td>GEEE GEG CEP</td>
<td>High Performance Buildings Urban Air Quality Energy Systems</td>
<td>ENV, SED, HLM</td>
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<td>Indicators</td>
<td>Pathways, REN21 and Global Tracking Framework</td>
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<td>Mobility and Connectivity</td>
<td>CEP and GEEE</td>
<td>Electricity as the transformational energy vector High Performance Buildings</td>
<td>Transport, SED, Trade, other</td>
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## How Clustering Would Work

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Expert Groups would either meet in the context of the various cluster activities or manage themselves as virtual communities.
Resources for Sustainable Development
Rewriting the resource management narrative

UN Resource Management System (UNRMS) focuses on progression of resource projects, social acceptability and investment readiness.
Getting Buildings Right

Quality of Life, Climate Change, and Resource Requirements
High Performance Buildings in the Smart and Sustainable Cities Nexus*

Optimum

Envelope
Materials/Design
Ultra-perfect construction

Energy
On-site
Off-site
Storage

Systems
HVAC
Plug-ins

IT
Smart Connect w/ Built Environment

* Joint activity with Housing and Land Management
Getting Renewables Right
Decarbonization; Green Jobs; Energy Access
Pathways to Sustainable Energy
How can the UNECE Region attain Sustainable Energy?
Indicators and Data of Energy for Sustainable Development*

* Joint activity with IEA, World Bank, WHO, UNECA, UNECLAC, UNESCAP, UNESCWA
Energy for Sustainable Development
Energy as an enabler to the 2030 Agenda

Energy for Quality of Life
- SDG1: No Poverty
- SDG3: Good Health & Wellbeing
- SDG2: Zero Hunger
- SDG7: Affordable and Clean Energy

Energy and Environment
- SDG8: Clean Water and Sanitation
- SDG13: Climate Action
- SDG14: Life Below Water

Nexus Opportunities
- SDG4: Quality Education
- SDG5: Gender Equality
- SDG6: Peace, Justice & Strong Institutions
- SDG9: Industry, Innovation & Infrastructure
- SDG10: Reduced Inequalities
- SDG11: Sustainable Cities and Communities
- SDG12: Responsible Consumption and Production
- SDG15: Life on Land
- SDG17: Partnerships

Energy for Sustainable Development

Energy Security
Questions for the Committee I
preparing for 28th session (25-27 September 2019)

- Is the Committee responding effectively to the priorities and challenges in the UNECE region?
- Do the products developed solve the critical issues?
- Is there further work the Committee can do, focusing on its enabling role, to improve quality of life and intergenerational aspirations?
- How can the Committee demonstrate the impacts of its activities that directly touch the lives of each individual in the region?
- Are the procedures of the Committee hindrance or enabler in ongoing activities? How do we adapt?
Questions for the Committee II
preparing for 28th session (25-27 September 2019)

- Seek endorsement for organizing the Committee and its subsidiary bodies in line with the proposed clusters.
- Seek agreement to consolidate the procedures for approving work plans and to reduce the administrative overburden for the expert groups.
- Seek agreement to allow its subsidiary bodies to explore alternatives for project development and TA.
- Seek endorsement for the establishment of trust funds or other financing models to support each of the 4 clusters.
- We propose to further develop these proposals for submission as formal decisions in September.
• Recommendations for the subprogramme on Sustainable Energy
Thank you!

Sustainable Energy Division
UNECE
Date 14 I 05 I 2019, Geneva
## Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Agenda Item</th>
<th>Moderation</th>
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<tbody>
<tr>
<td>16:00</td>
<td><strong>Introduction</strong> – Why are we having this Webinar? Why is it important? What we want to achieve?</td>
<td>UNECE</td>
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<tr>
<td>16:10</td>
<td><strong>Preliminary Key Messages and Policy Recommendations Emerging from Consultation Process</strong></td>
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<td>16:10</td>
<td>Group of Experts on Renewable Energy (GERE) Q&amp;A</td>
<td>Georgy Ermolenko (5mins)</td>
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<td>16:25</td>
<td>Group of Experts on Coal Mine Methane (CMM) Q&amp;A</td>
<td>Ray Pilcher (5mins)</td>
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<td>16:40</td>
<td>Group of Experts on Energy Efficiency (GEEE) Q&amp;A</td>
<td>Aleksandar Dukovski (5mins)</td>
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<td>16:55</td>
<td>Group of Experts on Cleaner Electricity Production (CEP) Q&amp;A</td>
<td>Barry Worthington (5mins)</td>
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<td>17:10</td>
<td>Group of Experts on Gas (GEG) Q&amp;A</td>
<td>Rafael Guerra (5mins)</td>
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<td>17:25</td>
<td>Group of Experts on Resource Management (EGRM) Q&amp;A</td>
<td>Gioia Falcone (5mins)</td>
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<td>17:40</td>
<td><strong>Collective Brainstorming on:</strong></td>
<td>All</td>
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<td>• Priorities that emerge from Policy Recommendations for Pathways</td>
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<td>• Implications on the work of Expert Groups and Nexus</td>
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<td>• Any other remarks</td>
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