

SUSTAINABLE ENERGY WEEK 2024

BUILDING RESILIENT & JUST ENERGY SYSTEMS

16-20 SEPTEMBER 2024 | PALAIS DES NATIONS | GENEVA



Agenda Item 5 – 20th Session of the Group of Experts on Cleaner Electricity Systems

Creating favourable conditions for effective transformation of electricity systems



16 September 2024

15h00 - 16h30 CEST (Geneva time)

Palais des Nations (Room VII)

About the Session

Objective:

To discuss various aspects and strategies essential for transitioning to a greater use of electricity in the energy mix while ensuring a resilient network, including discussion on how collaborative stakeholder engagement and the integration of innovative technologies can facilitate achieving the effective transformation of electricity systems.

Context:

The key areas for transition to increased electricity use in the energy mix include market reforms, project acceleration, and comprehensive grid planning. The importance of ambitious renewable energy targets, regulatory incentives, and competitive electricity markets is emphasized. Financing through green bonds, feed-in tariffs, and renewable energy auctions, coupled with substantial investment in research and development (R&D), are crucial. Stakeholder engagement, best practices sharing, and effective policy implementation are also important.

The session will address challenges in transforming electricity systems, focusing on emissions markets, market design, regulation, and financing, while highlighting the importance of adaptable regulation and collaborative stakeholder engagement.

A well-structured emissions market provides flexibility for electricity producers to reduce emissions in cost-efficient ways and invest in cleaner technologies. Revenue from emission allowances can support renewable energy projects and drive innovation in clean technologies. Market design should enable customer choice, create a framework conducive to investment, and guarantee a secure supply. Effective regulation also plays an important role and involve balancing coordination between stakeholders, incentivizing appropriate actions, and managing transaction costs. Securing financing is required for advancing renewable energy projects, fostering technological innovations, upgrading the grid, and boosting energy efficiency. Provision of financial incentives should motivate private sector participation and ensure an equitable transition.

Documentation:

ECE/ENERGY/GE.5/2024/5 - [Creating favourable conditions for effective transformation of electricity systems](#)

Tentative timeline:**15h00 - 15h10: Introduction**

Sylvain Clermont, DigiTransfo Expertise, Vice-Chair, Group of Experts on Cleaner Electricity Systems

Moderator:

Sylvain Clermont, DigiTransfo Expertise, Vice-Chair, Group of Experts on Cleaner Electricity Systems

Panellists:

- **Vladimir Budinsky** - EURACOAL, Vice-Chair, Group of Experts on Cleaner Electricity Systems
- **Furugzod Usmonov** - Vice-Chair, Group of Experts on Cleaner Electricity Systems
- **Andrei Covatariu** - Energy Policy Group, Vice-Chair, Group of Experts on Energy Efficiency, Co-Chair GEEE Task Force on Digitalization in Energy
- **Teresa Ponce de Leao** - National Laboratory of Energy and Geology, Portugal, Vice-Chair, Expert Group on Resource Management
- **Iryna Sotnyk** – University of Geneva
- **Souheil Sabbagh** –Digital Expertise, BBA inc.

16h00 - 16h20: Open discussion**Proposed questions for discussion:**

- What are the main challenges for effective transformation of electricity systems?
- Thinking about policy, regulation, financing and market what can be done to create favorable conditions?
- What key market reforms are necessary to support the shift towards greater use of electricity and renewable energy?
- What mechanisms are effective for securing financing for grid upgrades?
- How can comprehensive grid planning and accelerated project development be achieved?
- What role does stakeholder engagement play in facilitating the effective transformation of electricity systems and successful transition to a green energy mix?

16h20 - 16h30: Proposition of principles creating favorable conditions and contributing to a just transition

Sylvain Clermont, Vice-Chair, Group of Experts on Cleaner Electricity Systems