



Workshop III – Attaining Carbon Neutrality

Session I

23 November 2020, 11h30 – 13h00 CEST (Geneva time)

Objective: Inform the Group of Experts on Cleaner Electricity Systems on the progress of the project on enhancing the understanding of the implications of and opportunities for moving to carbon neutrality in the UNECE region across the power and energy intensive industries by 2050.

Context: The “Carbon Neutrality” project is based on the findings of the project on strengthening the capacity of the ECE member States to achieve the energy-related Sustainable Development Goals – Pathways to Sustainable Energy. The objective of the Pathways Project was to help countries develop, implement and track national sustainable energy policies to mitigate climate change and contribute to sustainable development. The project concluded that attaining sustainable energy is extremely challenging and the Committee on Sustainable Energy tasked the Group of Experts on Cleaner Electricity Systems to initiate a dialogue about delivering on the 2030 Agenda in an integrated way that develops carbon neutrality as a concept and that is pragmatic and rational economically, socially and environmentally with a particular focus on low and zero carbon technologies, such as fossil fuels with CCS, nuclear energy, hydrogen, energy efficiency, renewable energy etc.

The “Carbon Neutrality” project is being implemented through three main workstreams:

1. Refinement of data and assumptions of technology inputs
2. Understanding the role of selected technologies and innovation towards carbon neutrality
3. Collaboration across sectors towards carbon neutrality

11h30 – 12h10 Update on Carbon Neutrality Project

Presentation: From Pathways to SE to Carbon Neutrality Project (10min)

Vladimír Budinský, Acting Chair of the Group of Experts on Cleaner Electricity Systems

Presentation: Framework on Carbon Neutrality (10min)

Vladimír Budinský, Acting Chair of the Group of Experts on Cleaner Electricity Systems

Presentation: CCUS Technology Brief and a paper on electricity market models for carbon neutrality (10min)

Jon Gibbins, Vice-Chair of the Group of Experts on Cleaner Electricity Systems

Presentation: Nuclear Energy Brief (10min)

King Lee, Vice-Chair of the Group of Experts on Cleaner Electricity Systems and Vice-Chair of the Expert Group on Resource Management

12h15 – 13h00 Interplay of selected technology options within the carbon neutrality concept and with work on energy intensive industries

Presentation: Interplay of technologies including between flexible clean coal, natural gas and renewable energy (10min)

Andrew Minchener, Vice-Chair of the Group of Experts on Cleaner Electricity Systems

Discussion (35min)