



## Roundtable on Carbon Capture, Use and Storage (CCUS)

23 November 2020, 15.00 to 17.00 CEST (Geneva time)

UNECE countries need to develop and deploy zero carbon and negative carbon technologies to cut or capture 90Gt of CO<sub>2</sub> by 2050 and meet Paris Climate Agreement objectives. As fossil fuels are likely to continue to play an important role for UNECE member States in the short and medium term, achieving carbon neutrality will require deployment of carbon capture (use) and storage (CCS/ CCUS) technologies to allow bridging the gap until innovative, next generation low-, zero-, or negative-carbon technologies are commercialized. Without CCUS technologies the region will not meet the 2°C target and will not attain net-zero by mid of the century.

The **objective of the high-level roundtable** is to raise awareness about the potential of CCUS in the region, to discuss ways to overcome policy barriers and to identify targeted financing mechanisms to allow full commercialization of the CCUS across the region.

- **Raise awareness.** Awareness about CCUS technology varies across UNECE region. There is urgent need to build trust and public acceptance and to allow CCUS to be considered as a viable CO<sub>2</sub> mitigation option.
- **Identify policy barriers and propose solutions.** Policy mechanisms and regulatory frameworks need to be put in place to make CCUS projects economical.
- **Direct resources and develop financing instruments.** Financing is necessary to ensure early readiness for the CCUS projects before full commercialization of CCUS technologies is achieved.

### Moderator:

Mr Janos Pasztor - Senior Fellow at the Carnegie Council for Ethics in International Affairs and Executive Director of the Carnegie Climate Governance Initiative, Switzerland

### Panellists:

Mr Jarad Daniels - Director of Planning and Environmental Analysis, Department of Energy, United States

Mr Oliver Geden - Senior Fellow, German Institute for International and Security Affairs, Germany

Ms Trude Sundset – Chief Executive Officer, Gassnova, Norway

Ms Claude Loréa – Executive Director, Global Cement and Concrete Association, United Kingdom

Mr Jacek Podkanski - Head of Environmental Policy Unit, European Investment Bank, Luxemburg

### **Speakers bios:**

#### **Mr Janos Pasztor - Senior Fellow at the Carnegie Council for Ethics in International Affairs and Executive Director of the Carnegie Climate Governance Initiative, Switzerland**

Mr Pasztor has over 35 years of work experience in the areas of energy, environment, climate change, and sustainable development. Before taking up his current assignment he was UN assistant secretary-general for climate change in New York under Secretary-General Ban Ki-moon. Earlier, he was acting executive director for conservation and policy and science director at WWF International. He directed the UNSG's Climate Change Support Team (2008-2010) and later was executive secretary of the UNSG's High-level Panel on Global Sustainability (2010-2012). In 2007 he directed the Geneva-based UN Environment Management Group (EMG). During 1993-2006 he worked, and over time held many responsibilities at the Climate Change Secretariat (UNFCCC), initially in Geneva and later in Bonn. He is other assignments included: in the Secretariat of the 1992 UN Conference on Environment and Development (Earth Summit '92); Stockholm Environment Institute; United Nations Environment Programme; Secretariat of the World Commission on Environment and Development; the Beijer Institute; and the World Council of Churches. He has BSc and MSc degrees from the Massachusetts Institute of Technology.

#### **Mr Jarad Daniels - Director of Planning and Environmental Analysis, Department of Energy, United States**

Jarad Daniels leads the Office of Strategic Planning, Analysis, and Engagement within the Department of Energy (DOE) Office of Fossil Energy, including domestic programs and international engagements conducted in close collaboration with industry, academia, and multi-lateral organizations. Mr Daniels has twenty-five years of experience with the DOE, managing advanced technology programs and working in several national laboratories throughout the United States. His expertise includes domestic and global energy and environmental technologies, policies, and programs. Mr Daniels holds a Master of Science degree in Chemical Engineering from the University of California at Berkeley.

#### **Mr Oliver Geden - Senior Fellow, German Institute for International and Security Affairs, Germany**

Oliver Geden is Senior Fellow at the German Institute for International and Security Affairs (SWP) and a research associate at the University of Oxford's Institute for Science, Innovation and Society. His work focuses on European and global climate policy, including the governance of carbon dioxide removal and solar radiation management. Geden has been a visiting scholar at the International Institute for Applied Systems Analysis, the Max Planck Institute for Meteorology, the Swiss Federal Institute of Technology, and the University of California, Berkeley, among others. During his time at SWP, he has been seconded to the policy planning units of both the German Federal Foreign Office and German Federal Ministry for Economic Affairs and Energy. Geden is involved in the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, as a lead author in Working Group III and a member of the Core Writing Team for the Synthesis Report.

#### **Ms Trude Sundset – Chief Executive Officer, Gassnova, Norway**

Trude Sundset has over 30 years of business experience, with a focus on energy, environment and climate issues. Her extensive management experience includes business development, field development in the oil and gas sector and research management and development. Ms Sundset has broad experience from organisation and industry both nationally and internationally. She has developed a broad network and has good experience of international co-operation. Ms Sundset holds a Master of Science degree in Technology Physical Chemistry from the Norwegian Institute of Technology (now known as the Norwegian University of Science and Technology).

#### **Ms Claude Loréa – Executive Director, Global Cement and Concrete Association, United Kingdom**

Ms Loréa leads all aspects of GCCA's work related to cement. She drives the association's work to continuously improve the sustainability performance of the industry through innovation, as well as

developing and sharing good practices and global guidelines. Ms Loréa also leads GCCA's innovation workstream and managed the establishment of Innovandi, the Global Cement and Concrete Research Network. She has developed a special interest and expertise in CCUS and international climate policy, as well as regulatory requirements and trends. Over her career, Ms Loréa has built a detailed knowledge of the cement industry, including the sector's sustainability agenda where, among other achievements, she has led the development of the European Cement Industry Low Carbon Economy Roadmap and the Best Available Techniques Reference document for cement production.

**Mr Jacek Podkanski – Senior Engineer, Energy Security, European Investment Bank, Luxemburg**

Jacek Podkanski is a Senior Engineer at the Project Directorate of the European Investment Bank, responsible for due diligence on power and heat generation projects, including biomass-fired and waste to energy plants. Before joining the Bank, Mr Podkanski worked for the International Energy Agency where he was responsible for policy advice on fossil fuel-based power generation, CCUS and related research activities.