



SCCS

Annual Conference 2024

Scaling Up CO₂ Transport & Storage for a Decarbonised Europe

Speaker Biographies

3rd December 2024



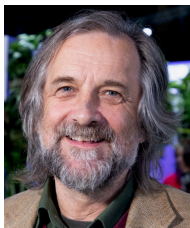
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Session 1

Policy Landscape



Professor R Stuart Haszeldine, SCCS Director and Professor of Carbon Capture and Storage, University of Edinburgh

Professor Stuart Haszeldine is a geologist and environmental scientist at the University of Edinburgh. He became the world's first Professor of Carbon Capture and Storage in 2006 and led the first integrated evaluation to discover CO₂ storage around the UK. Stuart advocates that using CCS will decrease emissions from industry and blue hydrogen manufacture, and for DACCS/BECCS/GGR to recapture and store atmospheric CO₂. His research shows that geological storage offers exceptionally secure and monitorable containment of fossil CO₂ and bio-CO₂ for geologically long timescales. Stuart also advocates that suppliers of fossil fuel should be specifically mandated to match their CO₂ supply with equal tonnages of storage, delivered by a Carbon Take Back Obligation, which will enable CO₂ markets to grow 10-100x faster towards Net Zero. Stuart is a Board Director with NECCUS.



Olivia Powis, CEO, Carbon Capture and Storage Association (CCSA)

Olivia Powis leads the CCSA, overseeing its London and Brussels offices. Olivia is focused on ensuring that the CCSA's 100+ members from carbon capture, transport, utilisation, storage, carbon removals and hydrogen production segments, as well as pioneering end-users from power and industrial sectors, are represented effectively and are able to engage constructively with UK and EU level decision-makers, whilst building their collective knowledge base to establish a successful industry. Olivia joined the CCSA in February 2021 as UK Director following a public sector and trade association career in energy and infrastructure, spanning two decades.



Andrew Russell, CCUS Policy Manager, Department for Energy Security and Net Zero (DESNZ)

Andrew Russell is a Policy Manager in the UK Government's CCUS Programme, with a particular focus on CO₂ Transport and Storage Networks. Andrew has been in the Programme since 2019. Prior to this Andrew worked in a variety of energy policy and delivery roles within the UK Government, in a Civil Service career spanning 15 years. Andrew holds a Bachelor of Science Degree in Geography from Lancaster University.



Aymeric Amand, Policy Manager, Zero Emissions Platform (ZEP)

Aymeric Amand is Policy Manager for the Zero Emissions Platform (ZEP). He works closely with the European Commission to accelerate the deployment of CCS/CCU technologies and CO₂ infrastructure, in line with Europe's climate objectives. ZEP technical and policy advice draws on the expertise and experience of its members as well as the latest scientific data.

In parallel to his role at ZEP, Aymeric gives lectures on the politics of climate change at the Catholic University of Lille. Before joining ZEP, he was leading research and advocacy at Sandbag, a climate think-tank specialising in EU carbon pricing and industrial decarbonisation. He has also worked for E3G and for FTI Consulting on various EU energy and climate policies.



Daniel Kitscha, Policy Officer, Low Carbon Solutions (II): Research & Low Carbon Technology Deployment, DG Climate Action, European Commission (DG CLIMA)

Daniel Kitscha is a member of the Commission's team supporting the transition of the European industrial economy through low carbon solutions. The team helps financing low, zero, and net-negative emission avoidance technologies with the Innovation Fund and the Modernisation Fund, as well as with innovative climate-friendly financial instruments under InvestEU. His task is to support the deployment of Industrial Carbon Management solutions capable of reducing hard-to-abate greenhouse gas emissions from industrial processes in line with the EU's climate target. This includes the implementation of the EU's Geological Storage Directive as well as the agreed CO₂ storage capacity target for 2030. Before joining DG CLIMA, Daniel worked for a decade in DG CONNECT on the European Regulatory Framework for Electronic Communications Networks and Services. Daniel holds a Ph.D. in political science from University of Siegen, Germany.

Session 2

Boundaries and Borders



Toby Lockwood, Director of Technology and Markets for Carbon Capture, Clean Air Task Force (CATF)

Toby Lockwood is Director of Technology and Markets for Carbon Capture (Europe) for Clean Air Task Force. In this role, he leads CATF's analytical work to assess how carbon capture can help Europe meet its climate goals. On behalf of CATF, he co-chaired the EU CCUS Forum's 'CCUS Vision' Working Group. Prior to joining CATF, Toby worked on carbon capture for nine years with the IEA Clean Coal Centre and also has experience in pollution control development for the lime industry.



Ingvild Ombudstvedt, CEO / Lawyer, IOM Law

Ingvild Ombudstvedt is an economist and lawyer, and the owner and founder of IOM Law. She has been working globally on legal issues relating to CCS, CCU, CCUS, and petroleum since 2012. She has extensive experience with capacity building, legal and regulatory gap analysis, and developing and advising on regulatory frameworks for petroleum, CCS, CCUS, and negative emissions globally. Ms. Ombudstvedt is appointed national expert and head of the delegation for Norway to the ISO project TC265, which was established to provide ISO standards for CCS and CO₂-EOR. She also heads the Norwegian delegation to the European standardization process for CCUS under CEN/TC 474. She holds a Master of Law from the University of Oslo (Norway), Faculty of Law (2011), a Master of Law from Lewis & Clark Law School in Portland, Oregon (USA) (2024), and studied Business Administration at the Norwegian University of Life Sciences. She is a member of the Norwegian Bar Association and Cornelius Honor Society.



Irina Ålund, Principal Consultant, Carbon Limits

Irina Ålund is an economist with extensive experience in economic and environmental assessment of various mitigation measures and improvement of policies on climate change and greenhouse gas emissions mitigation. Irina's main fields of expertise include GHG emissions accounting and reporting, analysis of effects of various mitigation strategies in multiple sectors, methane emissions from agriculture, production and use of biogas, CCS and carbon removals. Irina has been working on evaluating the policies pertaining to CCUS implementation in several countries, participated in several CCUS projects, as well as studied incentive mechanisms for Waste to Energy and CCS in Europe. Recently, her focus has been on developing LCA tools for various CCS/CCUS value chains.



Fabian Liss, Project Coordinator of Bellona Deutschland's CCS Forum, Bellona

Fabian Liss is the project coordinator of Bellona Deutschland's CCS Forum. Through the CCS Forum, Bellona aims to bring together various economic and social stakeholders across Germany's entire CCS value chain. Fabian's work focuses on analysing the development of the German Carbon Management Strategy, one of Europe's key governance documents on CCS. He holds a degree in Corporate and Business Law (LL.B.) as well as a degree in Political Science (B.A. and M.A.). During his studies, he gained early professional experience with the German Energy Agency (dena) and the environmental and development NGO Germanwatch, among others.

Keynote Speech



Dr Alasdair Allan MSP, Acting Minister for Climate Action, Scottish Government

Dr Alasdair Allan MSP grew up in the Scottish Borders and now lives in the Isle of Lewis. He attended Glasgow and Aberdeen Universities, gaining a PhD in Scots Language in 1998. Alasdair was elected MSP for the Western Isles in 2007. He became Minister for Learning, Science and Scotland's Languages in 2011 and was then Minister for International Development and Europe from 2016 to 2018. Prior to becoming an MSP, Alasdair was senior media relations officer for the Church of Scotland, and was named Gaelic journalist of the year in 2006. He was the National Secretary of the SNP from 2003 to 2006. When time allows, he sings with the Back District Gaelic Choir in Lewis, with whom he has competed in the National Mod. Dr Allan was appointed as Minister for Climate Action in July 2024. Along with supporting the Cabinet Secretary for Net Zero and Energy, his key responsibilities cover Energy, Just Transition and Energy Efficiency portfolios.

Session 3

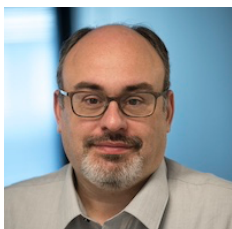
Technical Challenges



Carsten M. Nielsen, Special Consultant, Geological Survey of Denmark and Greenland (GEUS)

Carsten M. Nielsen has 25+ years of experience as a reservoir engineer; working with reservoir evaluation, field development, reserve estimation, subsurface modelling, CCS and reservoir simulation, both as an expert/regulator at the Danish Energy Agency and as a researcher/advisor at the Geological Survey of Denmark and Greenland (GEUS). He holds a M.Sc. in chemical engineering from the Technical University of Denmark.

Carsten has been using his expertise with hydrocarbon fields in the Danish, Norwegian and British sectors of the North Sea, modelling of CO₂ and natural gas storage and modelling geothermal energy production.



Stefan Belfroid, R&D Engineer, Netherlands Organisation for Applied Scientific Research (Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek) (TNO)

Stefan Belfroid is an experienced research engineer with over 25 years of experience. He holds a senior scientist position on Multiphase Phase Flow and on Flow Induced Pulsations at the TNO department of Heat Transfer and Fluid Dynamics. The last decade he is active on CCS since the Dutch project ROAD. His interest lies in CO₂ behaviour in pipelines, valves and wells.



Peter McFadzean, CO₂ Transport and Storage Lead UK, Equinor / Chairman of the Board of Directors, Northern Endurance Partnership

Peter McFadzean is Chairman of the Board for the Northern Endurance Partnership and a Board Director with NECCUS. Peter holds a doctorate in geosciences from the University of Edinburgh, business education with the Universities of Harvard and Oxford, and a 25-year professional association with Equinor working in international field developments and industrial decarbonisation.



Owain Tucker, Principal Technical Expert in Carbon Storage, Shell

Dr Owain Tucker is the manager for CCS capability, assurance and project support, and the Principal Technical Expert in Carbon Storage at Shell. He has the technical overview of all Shell CCS projects and leads a team of experts who are responsible for guiding storage exploration and appraisal; technical assurance; integration; technology maturation; the CCS research agenda and the development of CCS competences and capacity within Shell. Owain worked directly on the Goldeneye CO₂ store in the UK North Sea for over six years, and led the team who delivered the storage permit application and storage development plan.



Professor Gioia Falcone, Rankine Chair in Energy Engineering, University of Glasgow

Professor Gioia Falcone holds the Rankine Chair in Energy Engineering at the University of Glasgow, where she is Director of the Glasgow Centre for Sustainable Energy, Associate Director of the Centre for Sustainable Solutions and Head of the Energy and Sustainability Research Group. Until June 2018, she was the Head of the Geo-Energy Engineering Centre at Cranfield University. Between 2011 and early 2016, she held the Endowed Chair in Geothermal Energy Systems at Clausthal University of Technology, where she was also the Director of the Institute of Petroleum Engineering. Gioia was formerly an Assistant and then Associate Professor in Petroleum Engineering at Texas A&M University. Prior to joining academia, she worked with Eni-Agip, Enterprise Oil, Shell and Total Energies, covering both offshore and onshore assignments. Gioia is Vice-Chairperson of the Bureau of the Expert Group on Resource Management of the UNECE, Co-Chair of its Renewables Working Group and Chair of its Geothermal Sub-Group. She has served on the BEIS (now DESNZ) Energy Working Group, advising on the development of Technical Screening Criteria in the energy sector for a UK Green Taxonomy. She serves on the Directorate of SCCS and is Member of the UK Carbon Capture and Storage Research Centre.

Session 4

Projects & Infrastructure



Andy Brown, Engineering Director, Progressive Energy

Andy Brown has been working with low carbon technologies for 30 years, and was a founding Director of Progressive Energy in 1998. At the inception of the HyNet project, of which the decarbonising of the Stanlow refinery is a part, Andy led the engineering team that developed the project, and maintains an active interest in the whole value chain. He is the UK nominated expert in CO₂ transportation for the ISO TC265 working group and led the UK Delegation for the development of CEN TC 474. Andy is co-chair for the Technical Working Group of the Carbon Capture and Storage Association (CCSA) and chairs the working group responsible for all carbon capture and storage work at the Energy Institute.



Hanne Talboom, Project Manager (CCUS Program), Port of Antwerp-Bruges

Hanne Talboom is a Project Manager at Port of Antwerp-Bruges, where she has worked for six years. In her role, she has led multiple projects, always focusing on integrating commercial and sustainability goals. Currently she is the Program Manager for Carbon Capture and Storage, coordinating key projects like Antwerp@C.



Martijn Smit, Business Developer Low Carbon Solutions, Equinor

Martijn Smit has more than 25 years of experience and worked 18 years in Equinor. Martijn is part of the Equinor Low Carbon Management team and is globally responsible for the commercial customer contracting for CCS as well as the policy asks to the government. In addition, clean hydrogen and ammonia as low carbon fuels fall under his responsibility. Martijn was the Commercial Director in Northern Lights, the Norwegian flagship project, where he was responsible for the first commercial CO₂ service agreements with Yara and Ørsted. Martijn has been country manager, worked in natural gas before and is educated in Geology and business. He is a Dutch national, married with three children.