

Programme

Tuesday 15th September 2020, 10:00 – 11:30

Session 1 – Decarbonisation pathways for European member States and Region

ONLINE SESSION		DECARBONISATION PATHWAYS FOR EUROPEAN MEMBER STATES AND REGIONS 10:00 – 11:30 MODERATOR: ADRIAAN SLOB SPEAKERS: FRANCESCO FUSO NERINI, NEIL STRACHAN, ZOI VRONTISI, ANDRIES GRYFFROY, MARIA VAN DER HOEVEN	
		TIME	TOPIC
		10:00 – 10:10	Welcome and introductions <i>Adriaan Slob, TNO</i>
		10:10 – 10:45	Part 1 – The challenges of decarbonisation
		10:10 – 10:20	The challenges of decarbonising European regions and cities and DEEDS Policy Briefs <i>Francesco Fuso Nerini, KTH</i>
		10:20 – 10:35	The impact of climate change on regions: an assessment of the European Green Deal <i>Andries Gryffroy, MP Belgium</i>
		10:35 – 10:45	Panel discussion and Q&A <i>Andries Gryffroy, Maria van der Hoeven, Neil Strachan, Zoi Vrontisi, Francesco Fuso Nerini</i>
		10:45 – 11:30	Part 2 – Research and Innovation Policies
		10:45 – 10:55	Optimal investments in R&I for a climate neutral Europe in 2050 <i>Zoi Vrontisi, E3 Modelling</i>
		10:55 – 11:05	Research and Innovation for the European Green Deal: the recommendations of the High- Level Panel of the European Decarbonisation Pathways Initiative <i>Maria van der Hoeven, HLP Member of EDPI</i>
		11:05 – 11:30	Panel discussion and Q&A <i>Andries Gryffroy, Maria van der Hoeven, Neil Strachan, Zoi Vrontisi, Francesco Fuso Nerini</i>

Speakers and Presenters: Decarbonisation pathways for European member States and Regions



Adriaan Slob, Senior Scientist, TNO

Adriaan Slob is working as Senior Scientist at TNO Strategic Analysis and Policy. His work deals with governance related to sustainability, energy and water. This requires a system perspective, in which many actors play a role. Governance of these systems meet many challenges especially with regard to stakeholder involvement and integration of the social, economic and ecologic perspective. He is skilled in consensus building processes and acts as moderator of workshops. His studies concern the role of knowledge and learning in policy processes, knowledge co-creation with stakeholders and the design of participative processes. He is member of the Scientific Board of the Netherlands Energy Research Alliance and is also Visiting Associate Professor at Erasmus University in The Netherlands.



Francesco Fuso Nerini, Associate Professor of Energy Systems Analysis, Royal Institute of Technology Stockholm

Francesco Fuso Nerini works as Associate Professor at the division of Energy Systems at KTH-Royal Institute of Technology in Sweden. His focus is on addressing multi-disciplinary sustainable development related issues – including the analysis of energy and decarbonisation choices at the city, national and international scales. Before joining the division, Francesco worked and/or studied in 13 institutions located in 9 different countries, spanning from academia to national and international organizations. Francesco has post-doctoral experience from the UCL-Energy Institute at University College London and from the World Energy Outlook team at the International Energy Agency. Francesco also worked at the Italian National Agency for New Technologies, Energy and the Environment and as guest researcher both in Australia (Melbourne

Energy Institute of Melbourne University) and Brazil (Federal University of Pará). Also, he is a research fellow at the Payne Institute for Public Policy at Colorado School of Mines in the US. Francesco holds a PhD in Energy and Environmental Systems Analysis from KTH, and 3 MSc degrees in Environmental and Sustainable Energy Engineering (from Politecnico Di Milano, Italy; UPC, Spain; and KTH, Sweden).



Neil Strachan, Professor in Energy Economics and Modelling, University College London

Professor Neil Strachan is an interdisciplinary energy economist. He is the Director of the University College London UCL Energy Institute (www.ucl.ac.uk/bartlett/energy), where he is Professor of Energy Economics and Modelling. He received his PhD in Engineering and Public Policy from Carnegie Mellon University in 2000. At the UCL Energy Institute, Neil's research interests revolve around energy-environment-economic modelling, the quantification of scenarios and transitions pathways, and interdisciplinary issues in energy economics and policy. Over the last 10 years he has been principal or co-investigator on research projects worth £15 million. This included as principal investigator of the Whole Systems Energy Modelling Consortium (wholeSEM), the UK's ground breaking multi-institution initiative to develop, integrate and apply state-of-the-art energy models (www.wholesem.ac.uk). He is the author of over 60 peer reviewed journal papers, and over 100 book chapters and technical reports.

He has led a decadal collaboration applying energy systems models to underpin UK Governmental energy policy analysis. He was a lead author of the Energy Systems chapter of the IPCC's 5th Assessment Report. He is a non-executive director of the Energy Systems Catapult (<https://es.catapult.org.uk>).



Zoi Vrontisi, Senior Researcher & Project Manager Climate Policy, E3 Modelling

Zoi Vrontisi has more than 10 years of professional and academic experience in energy and climate policy assessment. She contributes as a senior researcher and project manager for several EU funded research projects focusing on the interlinkages between sustainable development and climate policy, the socioeconomic assessment of climate impacts and the formulation of sustainable energy policies. She has a strong know-how in quantitative assessments with the application of sophisticated modelling tools, in particular with the large-scale, hybrid CGE model GEM-E3. In addition to her experience in E3-Modelling, she has worked for the European Commission (JRC), the Greek Ministry of Development, research institutes (E3MLab, NTUA) and the private sector. She is currently a member of the Board of Directors of the Independent Power Transmission Operator of Greece and the Chairwoman of the National Center for the Environment and Sustainable Development of Greece.



Maria van der Hoeven, Former Executive Director of the International Energy Agency (IEA) Senior Fellow at het Clingendael International Energy Programme Member of the Boards of Total, Innogy and Rocky Mountain Institute

Maria van der Hoeven is the former executive director of the International Energy Agency (IEA). As Executive Director, she steered the agency during a period of exceptional change in the global energy economy. One of her overarching priorities was implementing a new Global Engagement Strategy to bring in institutionally the major emerging energy players of the 21st century. Another was expanding modern energy services to the 1.3 billion people worldwide who currently lack them. In recognition of the IEA's efforts to address the crisis of energy poverty, Maria van der Hoeven served on the Advisory Board to the UN Sustainable Energy for All

initiative. Since 2020 she is member of the Board of COVRA and she was until 2019 member of the Board of Innogy. Since 2015 she has been a Senior Fellow at the Clingendael International Energy Programme. She is a member of the Global Commission on the Economy and Climate and of the Global Commission on the Geopolitics of Energy Transformation. Previously, Maria van der Hoeven served as Minister of Economic Affairs of the Netherlands from 2007 to 2010, during which time she demonstrated leadership on energy policy at the national, regional and global levels. Prior to becoming Minister of Economic Affairs, Maria van der Hoeven was Minister of Education, Culture and Science from 2002 to 2007.



Andries Gryffroy, Vice-chairman of the Flemish Parliament

Andries Gryffroy is the vice-chairman of the Flemish Parliament. From 2008 to 2011 he was treasurer and from 2011 to 2014 general secretary of his party, the N-VA. In October 2012 he became party leader in the East Flemish Provincial Council, which he remained until 2014 when he was elected member of the Flemish Parliament. From 2012 until 2014 Gryffroy was appointed chairman of the board of directors of the Flemish Energy Company. Andries Gryffroy has devoted himself to issues such as energy, climate, entrepreneurship and innovation, research and development and policy on inter-municipal cooperation.

Tuesday 15th September 2020, 14:00 – 15:30

Session 2 – Scenarios and knowledge databases for decarbonisation pathways in Europe

WORKSHOP: SCENARIOS AND KNOWLEDGE DATABASES FOR DECARBONISATION PATHWAYS IN EUROPE 14:00-15:30 MODERATOR: LARA ALELUIA SPEAKERS: LARA ALELUIA, CHRISTIAN BAUER, DANIEL HUPPMANN	
TIME	TOPIC
14:00 – 14:10	Welcome and introduction to the session
14:10 – 14:50	Part 1 – Introduction to the DEEDS Tools
14:10 – 14:30	The DEEDS Tools, and how they can be used by other projects <i>Lara Aleluia, FEEM</i>
14:30 – 14:45	Presentation of the Databases <i>Christian Bauer, PSI</i>
14:45 – 14:50	Panel discussion and Q&A <i>Lara Aleluia, Christian Bauer, Daniel Huppmann</i>
14:50 – 15:30	Part 2 – Using the DEEDS Database
14:50 – 15:15	DEEDS Scenario Explorer and related tools hosted by IIASAA <i>Dr Daniel Huppmann IIASAA</i>
15:15 – 15:30	Panel discussion and Q&A <i>Lara Aleluia, Christian Bauer, Daniel Huppmann</i>

ONLINE SESSION

Speakers and Presenters: Scenario's and knowledge databases for decarbonisation pathways in Europe



Lara Aleluia, Junior Scientist, FEEM, EIEE

Lara is a junior scientist at EIEE. She holds PhD in engineering sciences from the University of Luxembourg (2013) and a master's in environmental engineering from the New University of Lisbon (2008). During her doctoral studies she has developed a reduced air quality model for an integrated assessment model for air pollution policy. In the context of her PhD studies, she has worked at the Laboratory of Atmospheric Physics of the University of Thessaloniki, Greece, as a guest student. She developed an air quality impact module for the WITCH integrated assessment model. She is particularly interested in climate change, integrated assessment approaches, environmental statistics, energy policy, environmental economics, and air pollution and its connections with meteorology and climate.

Christian Bauer (MSc), Scientist, PSI



Christian Bauer works as senior scientist at PSI. He joined the Laboratory for Energy Systems Analysis in 2003 after receiving his MSc in environmental sciences from the University of Graz, Austria. His research focuses on Life Cycle Assessment (LCA) and sustainability of energy supply and use – synthetic fuels, electricity generation and storage as well as mobility – and the link between energy system modeling and LCA. He is leading the LCA activities of the research group and is member of the board of theecoinvent association, which operates the leading LCA database worldwide. Currently, he acts as PSI's PI in the ERANET ACT project ELEGANCY and the H2020 project ROBINSON, and in the national SCCERs for "Heat and Electricity storage" and "Efficient Technologies and Systems for Mobility".



Dr Daniel Huppmann, Research Scholar, IIASAA

Dr Huppmann was an author of the 2018 IPCC Special Report on Global Warming of 1.5 °C (SR15). In parallel to his contribution to the IPCC, Dr Huppmann was the lead developer of the energy system and integrated assessment framework MESSAGEix, an open-source platform for integrated and cross-cutting modeling. This system underpins the MESSAGEix-GLOBIOM Integrated Assessment Model, which is used as the core modeling tool at the Energy Program to explore national and global transformation strategies in the context of climate change and their linkages to a range of sustainable development objectives. Before joining the IIASA Energy Program in October 2015, Dr Huppmann was awarded a Postdoctoral Fellowship at The Johns Hopkins University, Baltimore, and worked in the Civil Engineering Department. During this time, he was also affiliated as a Visiting Fellow at the think-tank Resources for the Future (RFF), Washington D.C. Before his research sojourn in the US, he worked at the Department of Energy-Transportation-Environment at the German Institute for Economic Research (DIW Berlin), Germany. Dr Huppmann graduated with a doctorate in economics from Technical University Berlin after successfully completing the structured PhD program at DIW Berlin, defending his dissertation summa cum laude in June 2014. He also studied Mathematics at the Vienna University of Technology, where he earned an MSc degree in 2010.

Wednesday 16th September 2020, 10:00 – 11:30

Session 3 – Decarbonisation: The role of business and the pathways for the industrial sector

ONLINE SESSION	DECARBONISATION: THE ROLE OF BUSINESS AND THE PATHWAYS FOR THE INDUSTRIAL SECTOR 10:00 – 11:30 MODERATOR: NEIL STRACHAN SPEAKERS: ADRIAAN SLOB, LARS NILSSON, ELENA VERDOLINI, ERWAN SOUTER, MARKUS TRILLING	
	TIME	TOPIC
	10:00 – 10:10	Welcome and Introduction to the session
	10:10 – 10:40	Part 1 – Decarbonisation of the industrial sector from H2020 project perspectives sector
	10:10 – 10:20	INNOPATHS <i>Elena Verdolini, EIEE</i>
	10:20 – 10:30	REINVENT <i>Lars Nilsson, Lund University</i>
	10:30 – 10:40	Q&A <i>Elena Verdolini and Lars Nilsson</i>
	10:40 – 11:00	Part 2 – What is the role of business in decarbonisation?
	10:40 – 11:00	Presentation of the DEEDS Business Guide <i>Erwan Saouter, WBCSD</i>
	11:00 – 11:30	Part 3 – Finance and Investment
11:00 - 11:10	Presentation on the financial instruments available <i>Markus Trilling</i>	
11:10 - 11:30	Panel Discussion and Q&A <i>Elena Verdolini, Lars Nilsson, Adriaan Slob, Erwan Saouter, Markus Trilling</i>	

Speakers and Presenters: Decarbonisation: The role of business and the pathways for the industrial sector



Neil Strachan, Professor in Energy Economics and Modelling, University College London

Professor Neil Strachan is an interdisciplinary energy economist. He is the Director of the University College London UCL Energy Institute (www.ucl.ac.uk/bartlett/energy), where he is Professor of Energy Economics and Modelling. He received his PhD in Engineering and Public Policy from Carnegie Mellon University in 2000. At the UCL Energy Institute, Neil's research interests revolve around energy-environment-economic modelling, the quantification of scenarios and transitions pathways, and interdisciplinary issues in energy economics and policy. Over the last 10 years he has been principal or co-investigator on research projects worth £15 million. This included as principal investigator of the Whole Systems Energy Modelling Consortium (wholeSEM), the UK's ground breaking multi-institution initiative to develop, integrate and apply state-of-the-art energy models (www.wholesem.ac.uk). He is the author of over 60 peer reviewed journal papers, and over 100 book chapters and technical reports.

He has led a decadal collaboration applying energy systems models to underpin UK Governmental energy policy analysis. He was a lead author of the Energy Systems chapter of the IPCC's 5th Assessment Report. He is a non-executive director of the Energy Systems Catapult (<https://es.catapult.org.uk>).



Lars Nilsson, Professor of Technology and Society, Lund University

Lars J. Nilsson has a MSc degree in Engineering Physics and a PhD in Environmental and Energy Systems Studies. He has supervised more than 20 PhD students and has 30 years of experience in the fields of energy efficiency and renewable energy, energy and transport systems, as well as energy and climate policy analysis. Recent research has been on different aspects of low carbon transition policy strategies and governance. A topical field of research is low carbon transitions in the basic materials industry and co-evolution with energy system transitions in the perspective of circular economy, industrial development and innovation policy strategies. He teaches on climate science and politics, energy policy and governance at the Faculty of Engineering, Lund University.



Elena Verdolini, Senior Scientist, EIEE

Elena is Senior Scientist at EIEE and Assistant Professor (tenure track) in Political Economy at the Law Department, Università degli Studi di Brescia. She holds a degree in Political Science from the University of Pavia, a Master of Public Administration and a Master of Arts in International Studies from the University of Washington, Seattle and a PhD in Economics and Finance of the Public Administration from Università Cattolica del Sacro Cuore, Milan. Her main interest is in applied analysis, with a focus on the dynamics of innovation, technology transfer, green growth, and the economic impacts of environmental and energy policies. Elena has been involved in several internationally funded research projects (INNOPATHS, CD-LINKS, ENTRACTE, ICARUS among others). Most recently she has been awarded a 5-year European Research Council

Grant for the project 2D4D "Disruptive Digitalization for Decarbonization", in which she will research the energy and socio-economic implications of three key digital technologies in three hard-to-decarbonize sectors: Additive Manufacturing in Industry, Mobility-as-a-Service (MaaS) in transport and Artificial Intelligence in buildings. Elena is a Lead Author of the 6th Assessment Report of the IPCC in Working Group III.



Dr Erwan Saouter, Climate and Energy Director, World Business Council for Sustainable Development

Dr Erwan Saouter is currently Climate & Energy director at the World Business Council for Sustainable Development (WBCSD).

He leads the work on decarbonisation and natural carbon solutions (NCS) to help WBCSD's members to achieve net zero carbon emissions by 2050. Previously, he worked for the European Commission Joint Research Center from 2013 to 2019. He is an expert in carbon footprint, life cycle assessment, life cycle thinking, with a special focus on ecotoxicology, risk assessment of chemicals and chemical regulations (REACH, CLP...). He has an extensive experience in public external relations, dealing with industry associations, governments, and media. He spent the majority of his career working first for a multinational consumer good company (Procter & Gamble) and then as founder and managing director of his own business: 'Science & Environment' and 'Biocomp-Nepal' a green for profit company during 6 years. He has published more than 60 scientific articles in scientific magazines and books.



**Markus Trilling, Finance and Subsidies Policy Coordinator,
Climate Action Network (CAN).**

Markus became Finance and Subsidies Policy Coordinator at CAN Europe in autumn 2016. While aiming to bring national fossil fuel subsidies issues to the EU level, main objective of his advocacy, research, monitoring and coordination efforts is to shift EU public financing - in particular from the EU budget, the European Fund for Strategic Investments and the European Investment Bank - away from fossil fuels and thus towards catalyzing the transition to 100% renewable and fully energy efficient economies. In his previous occupation, since 2010, Markus was leading on the campaign on greening EU funds for CEE Bankwatch Network. Markus holds a diploma in Economics from the University of Augsburg (Germany) and a Master in European Studies from the Technical University Aachen (Germany), Universidad de Santiago de Compostela (Spain) and Université de Liège (Belgium).

Wednesday 16th September 2020, 14:00 – 15:30

Session 4 – Decarbonisation challenges for the Green Deal and how to solve them

DECARBONISATION CHALLENGES FOR THE GREEN DEAL AND HOW TO SOLVE THEM 14:00 – 15:30 MODERATOR: ADRIAAN SLOB SPEAKERS: ROBERT PIETZCKER, PAUL EKINS, DIEDERIK SAMSOM, MOHAMMED CHAHIM, BEATA JACZEWSKA	
TIME	TOPIC
14:00 – 14:05	Welcome and Introduction to the session <i>Adriaan Slob, TNO</i>
14:05 – 14:40	Part 1 – Systems integration, new infrastructures, and new policies in Europe
14:05 – 14:15	The technical challenges of systems integration and new infrastructures <i>Robert Pietzcker, PIK</i>
14:15 – 14:25	R&I policies and governance to support decarbonisation <i>Paul Ekins, UCL</i>
14:25 – 14:40	Panel discussion and Q&A <i>Robert Pietzcker, Paul Ekins, Mohammed Chahim, Beata Jaczewska</i>
14:40 -14:50	Keynote: The Green Deal
14:40 -14:50	The main challenges for the Green Deal to succeed <i>Diederik Samsom</i>
14:50 – 15:10	Part 2 – Learning and willing to transform
14:50 – 15:00	Leaving no one behind: the need for a bottom-up transformation <i>Mohammed Chahim, MEP</i>
15:00 – 15:10	Transition Super Labs to facilitate transformation <i>Beata Jaczewska, HLP Member of EDPI</i>
15:10 – 15:30	Panel discussion and Q&A <i>Robert Pietzcker, Paul Ekins, Diederik Samsom, Mohammed Chahim, Beata Jaczewska</i>

ONLINE SESSION

Speakers and Presenters: Decarbonisation challenges for the green deal and how to solve them



Adriaan Slob, Senior Scientist, TNO

Adriaan Slob is working as Senior Scientist at TNO Strategic Analysis and Policy. His work deals with governance related to sustainability, energy and water. This requires a system perspective, in which many actors play a role. Governance of these systems meet many challenges especially with regard to stakeholder involvement and integration of the social, economic and ecologic perspective. He is skilled in consensus building processes and acts as moderator of workshops. His studies concern the role of knowledge and learning in policy processes, knowledge co-creation with stakeholders and the design of participative processes. He is member of the Scientific Board of the Netherlands Energy Research Alliance and is also Visiting Associate Professor at Erasmus University in The Netherlands.



Robert Pietzcker, Co-lead National Energy Transitions Team at Potsdam Institute for Climate Impact Research (PIK)

Robert Pietzcker has PhD in Economics and Master in physics. He co-leads the National Energy Transitions Team within the Energy Systems Group at the Potsdam Institute for Climate Impact Research (PIK). His research focuses on decarbonization strategies across the power, transport, industry and building sectors, as well as the EU climate and energy policies to implement these strategies. He supervises the development of the EU-focused energy-economy-climate model REMIND-EU.

His current project work includes leading the modeling work package in the INNOPATHS Horizon2020 project, as well as the modeling work on mid-term EU climate targets in the German KOPERNIKUS research project ARIADNE. He has previously worked on systems integration challenges of wind and solar power and the representation thereof in large-scale energy-economy-models.



Paul Ekins, Professor of Resources and Environment Policy, University College London

Paul Ekins has a Ph.D. in economics from the University of London, an Hon. DSc from the University of Keele, and is Professor of Resources and Environmental Policy, and Director of the UCL Institute for Sustainable

Resources, at University College London. His academic work focuses on the conditions and policies for achieving an environmentally sustainable economy. He is an authority on a number of areas of energy-environment-economy interaction and environmental policy, including: sustainable development assessment methodologies; scenarios, modelling and forecasting; resource productivity; sustainable energy use; the adjustment of national accounts to take account of environmental impacts; environmental economic instruments and ecological tax reform; and environment and trade.



Diederik Samsom, Head of Cabinet of the Vice-President of the European Parliament and Political Leader of the Dutch Labour Party

Diederik Samsom is a Dutch political leader of the PvdA (Labour party) from the environmental movement in the period 2012-2017. He was campaign manager at Greenpeace and director of a 'green' energy company and switched to politics in 2003. With Dijsselbloem and Depla one of the three 'red' engineers in the fraction. As a member of parliament, spokesman for sustainability and later asylum policy. After having succeeded Job Cohen in an internal election in early 2012, he led his party to new government participation in the Rutte II cabinet. Cooperated well with Prime Minister Rutte and contributed greatly to many of the policy results of that cabinet, but was unable to reverse his party's decline. After he lost the battle for Lodewijk Asscher's leadership at the end of 2016, he left Dutch politics. Known as a smart, inventive, fire tiger and tenacious debater. Since 2019, he has been Private Secretary to Frans Timmermans, Vice-President of the European Commission.



Mohammed Chahim, Group of the Progressive Alliance of Socialists and Democrats in the European Parliament

Dr. Mohammed Chahim is a Member of the European Parliament for the Dutch social democrats. He is a member of the committee on environment, health and food safety and the committee on industry research and energy. Previously he worked as a researcher in environmental economics and energy transition at the Dutch

organization for applied scientific research (TNO). He holds a master degree in econometrics and operations research, and a research master in microeconomics. Afterwards he completed his PhD in Operations Research at Tilburg University in 2013. He started his political career in 2006 as a member of the municipal council in his hometown. From 2014 up to his election to the European Parliament, he led the local group of his party in Helmond.



Beata Jaczewska, Former Executive Director at the International Visegrad Fund Former Deputy Minister of Environment of Poland Civil servant, Diplomat

Soon after graduating from the Faculty of Law and Administration at Warsaw University (MA in legal studies), Beata Jaczewska started her professional career in Poland's public service. She worked for the Ministry of the Economy in various positions, and was mostly involved in policymaking for the country's economic growth. In particular, as the Director of the Economy Development Department she was involved in climate change negotiations under the United Nations Framework Convention on Climate Change (UNFCCC), and identified the potential of green growth for Poland's development. Serving as Under-Secretary of State in Poland's Ministry of Environment (December 2011–December 2013), she was a member of the board of the Green Climate Fund, organised COP19 in Warsaw and led the team of climate change negotiators, both in the UNFCCC and the EU. Recently, she was Executive Director at the International Visegrad Fund in Bratislava (Slovakia). There, working with representatives of civil society in the region, she introduced a new impact-oriented methodology of project assessment, bringing 'community changing' ideas closer to the people. Currently she is serving as

ministerial advisor in the European Policy Department in the Poland's Ministry of Foreign Affairs.