

European Energy Transition and Society: moving towards Implementation

ECEMP 2025 is on! This year's ECEMP edition mixes qualitative and quantitative research and modelling approaches to focus on accelerating implementation while continuing to deliver insights from modelling intercomparison in energy-climate transition analyses and embedding/simulating insights from the social sciences and humanities.

Program at a glance:

Day 1: October 16th, 2025

09:00-10:00	Registration
10:00-10:30	ECEMP Welcome
10:30-12:30	 Round table 1: Towards climate resilience: mitigation, adaptation and biodiversity conservation investment pathways
12:30-13:30	Lunch
13:30-15:30	 Round table 2: Going to net zero: how to make ambitious climate policies politically feasible?
15:30-16:00	Coffee break
16:00-17:15	Selected Papers Policy Session
17:15-17:30	The ECEMF - EFECT Networks
17:30-18:00	Closing Day 1
19:00-22:00	Conference Dinner @Kamilou

Day 2: October 17th, 2025

09:00-09:30	Registration		
09:30-10:50	Presentations Session A1: Pathways & Instruments for 2040 Implementation	Presentations Session B1: Model Intercomparison & Assessment	
11:00-12:20	Presentations Session A2: Distributional, Employment & Social Dimensions	Presentations Session B2: Infrastructure, Spatial Detail & Co-designed Systems	
12:30-13:30	Lunch		
13:30-14:50	Presentations Session A3: Trade, Industry & Sectoral Policy	Presentations Session B3: Heat, Fuels & Storage Transition	Special session 1: Mainstreaming Reflexive Practices in Systems Modelling Approaches
14:50-15:10	Coffee break		
15:10-16:30	Presentations Session A4: Markets, Security & Cross-border Coordination	Presentations Session B4: Risks, Governance & Policy Implementation	Special session 2: Developing clean and affordable transport – African perspectives and advancements
16:30-17:00	Closing Ceremony		

For further information please visit the [conference website](#) or contact us at: ecemp@ecemf.eu. Last edit 26/09/2025.

Day 1 | October 16th, 2025 | Detailed Program

10:00-10:30	Conference opening	<i>Jakob Rager & OC</i>
10:30-12:30	 Round table 1: Towards climate resilience: mitigation, adaptation and biodiversity conservation investment pathways	<u>Presentations</u> Chair: <i>Ugne Keliauskaite, BRUEGEL</i> • Zoi Vrontisi, E3Modelling/Ricardo • Quentin Dupriez, DG CLIMA, European Commission • Andrey Ceglar, ECB (cancelled) • Elisa Lanzi, OECD • Thomas Stoerk, National Bank Belgium (cancelled)
12:30-13:30	Lunch	
13:30-15:30	 Round table 2: Going to net zero: how to make ambitious climate policies politically feasible?	<u>Presentations</u> Chair: <i>Albert Ferrari, EUI</i> • Johannes Emmerling, CMCC • Paolo Caridi, DG CLIMA, European Commission • Patrizia Heidegger, European Environmental Bureau (cancelled) • Tobias Kruse, OECD • Jos Delbeke, EUI (online)
15:30-16:00	Coffee break	
16:00-17:15	Selected Papers Policy Session	<u>Presentations</u> Chair: <i>Davide Natalini & Jakob Rager</i> • How a positive tipping point cascade in power, transport and heating can accelerate the low-carbon transition - <i>Femke Nijssse (canceled)</i> • Regional Inequality of the European ETS-2 - <i>Marc Vielle</i> • Workforce needs of the EU Green Deal - <i>Rafael Garaffa</i> • Coping with the Dunkelflaute - <i>Martin Kittel</i>
17:15-17:30	The ECEMF - EFECT Network	<i>Johannes Emmerling, CMCC and Hans Auer, TU Wien</i>
17:30-18:00	Closing Day 1	<i>Davide Natalini, Anglia Ruskin University</i>
19:00-22:00	Conference Dinner at Restaurant “Kamilou” →	Rue Joseph II 36, 1000 Bruxelles

Day 2 | October 17th, 2025 | Detailed Program**09:00-09:30 Registration & Coffee****09:30-10:50 Presentations
Session A1:
Pathways &
Instruments for
2040
Implementation**Presentations | Chair: *Davide Natalini*

- From net-zero to zero-fossil in transforming the EU energy system, *Felix Schreyer*
- Modelling Decarbonisation Pathways in Europe: Balancing Ambition and Economic Feasibility, *Kong Chyong*
- And yet it moves: a decade of Global Energy and Climate Outlooks yields lower emission and temperature projections, *Kimon Keramidas*
- Promoting evidence-based energy transition policies in rural EU regions: a bottom-up demand-side modelling analysis of real-life residential pilots, *Dimitris Papantonis (cancelled)*

**Presentations
Session B1:
Model
Intercomparison
&
Assessment**Presentations | Chair: *Georgios Xexakis*

- Charting the path to climate neutrality in the EU: Insights from a model comparison exercise, *Robert Pietzcker*
- Comparing cost-optimal to policy-driven scenarios for a decarbonised European energy system, *Dirk-Jan van de Ven*
- Is there no alternative? It is time energy planning models looked beyond cost-optimal solutions, *Francesco Lombardi and Fabian Neumann*
- When forecasts meet, reality: Assessing Climate Damage Functions, *Johannes Emmerling (CMCC)*

11:00-12:20 **Presentations**
Session A2:
Distributional,
Employment &
Social
Dimensions

- Presentations | Chair: *Albert Ferrari*
- Disparity-aware energy system modelling resolves potential transition injustices, *Meijun Chen*
 - Assessing economy-wide employment impacts of the EU Net zero transition, *Ioannis Charalampidis*
 - Views of EU citizens on economic growth and implications for climate policy, *Ivan Savin*
 - Renewable generation capacity expansion: Can we fairly balance system cost and land-use inequality across Europe?, *Jann Launer and Stefan Pfenninger-Lee*

Presentations
Session B2:
Infrastructure,
Spatial Detail &
Co-designed
Systems

- Presentations | Chair: *Johannes Emmerling*
- Bridging the gap: a review of future energy infrastructure needs and their representation in long-term integrated energy system models, *Roelof Stam, Machteld van den Broek (cancelled)*
 - Integrating Spatial Granularity into Climate Policy Analysis: A CGE–GIS Framework for the European Union, *Sigit Perdana*
 - Cities at the forefront: current modelling practices and opportunities for integrated assessment models—insights from Athens, Greece, *Georgios Xexakis*
 - Energy Systems Beyond the Optimum: Insights from Five Projects on Social and Environmental modelling, *Cristina Madrid-Lopez, Alexander de Tomas Pascual, Miquel Sierra Montoya*

12:30-13:30 **Lunch**

13:30-14:50 **Presentations**
Session A3:
Trade, Industry & Sectoral Policy

- Presentations | Chair: *Zoi Vrontisi*
- Pricing GHG emissions in agriculture: accounting for trade and fairness for effective climate policy, *Toon Vandyck*
 - Friendshoring Germany's green materials production to Europe, *Toni Seibold*
 - Climate policy in a world with fragmented international trade, *Camille Van der Vorst*
 - The European Refinery: Effects of Carbon Accounting in the EU ETS on the Future of Fossil Oil, *Simon Lukas Bussmann*

Presentations
Session B3:
Heat, Fuels & Storage Transitions

- Presentations | Chair: *Ioannis Charalampidis*
- A mix of long-duration hydrogen and thermal storage enables large-scale electrified heating in a renewable European energy system, *Alexander Roth*
 - Technologically constrained EU mitigation pathways in the light of geopolitical and sociopolitical risks, *Eleftheria Zisarou*
 - The Minimal Methanol Economy as a Gap-Filler for High Electrification Scenarios, *Fabian Neumann*
 - A pathway for EU deep-decarbonization from a technology perspective, *Moritz Wegener*

Special session 1:
Mainstreaming Reflexive Practices in Systems Modelling Approaches, *M.A. Abhigya and Gerlich Vojtěch*
In this workshop, we invite participants to engage in a reflexive exercise that explores how factors beyond socio-economic interests—such as epistemic values, disciplinary training, and methodological preferences—shape the design of future scenarios.

14:50-15:10 **Coffee break**

15:10-16:30 **Presentations**
Session A4:
Markets, Security
& Cross-border
Coordination

- Presentations | Chair: *Tars Verschelde*
- Balancing Energy Security and Decarbonisation: A Comparative Analysis of the Effects of Carbon Pricing Strategies on the Decarbonisation of the EU Energy System via Coupled Modelling approach, *Joan Enric Alcover Comas*
 - Unravelling CO₂ Value Chain Participation under Negative Emission Pricing and EU Industry Relocation, *Flore Verbist*
 - Finding the most effective instruments: The effect of enabling policies on ETS2 prices, *Robert Pietzcker*
 - Carbon price or installation ban - how to decarbonise space heating in the EU?, *Robin Hasse*

Presentations
Session B4:
Risks,
Governance &
Policy
Implementation

- Presentations | Chair: *Jakob Rager*
- Sectoral decarbonization pathways for the EU and China from a Dual-IAM Assessment| PROMETHEUS and GCAM insights, *Eleftheria Zisarou*
 - Co-Designing Stakeholder-Informed Research Questions: A Transdisciplinary Approach for Integrated Assessment Modelling, *Stefanie Briers*
 - Modelling the European energy transition in the context of social and political developments, *Patrick Jürgens*
 - The role of Projects of Common Interest in reaching Europe's energy policy targets, *Bobby Xiong*

Special session
2:
Developing
clean and
affordable
transport –
African
perspectives
and
advancements,
(Online only)
[Program](#) &
[Online participation link](#)

16:30-17:00 **Closing**
Ceremony

OC 2025,
Tars Verschelde for the ECEMP OC 2026