

ECEMP 2025



European Energy Transition and Society: moving towards Implementation

Energy transition goals are set in law. Models show trajectories towards net zero in 2050. Key policy measures trickle down from the top. And society? 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.

ECEMP 2025 is dedicated to showcasing the latest policy-relevant findings derived from analyses of climate and energy models. The event also serves as a meeting point to discuss the latest research trends in developing collaborative modelling exercises. The scope and thematic areas of the event include but are not limited to:

- Realizing the 2040 targets: What policy measures and innovations should be accelerated? Latest trends, assessments and definitions of Energy Transition scenarios, how do we reach European climate targets?
- Comparing modelling frameworks for better implementation: How to compare results between models? How to explore different model frameworks and results visually?
- Developing detailed energy and climate models in space and time: how to include more sectoral detail, e.g., sectoral targets like grid expansion or Hydrogen or mobility?
- Assessing model implementation of different targets: How to advance developing common metrics across models, input data harmonization and common standards?
- Broadening approaches to include social sciences and humanities in modelling: e.g., participatory approaches to modelling social behaviours in energy / multi-system models.
- Expand the scope of energy models to include social sciences and humanities topics in models: e.g., circular economy, socio-economic and behavioural aspects to increasing climate resilience.
- The application of a (multi-) system approach to energy modelling, recognising the interactions between the energy system, other key EU policy pillars like climate and mobility and beyond.
- Understanding and showcasing distributional and other socio-economic implications
- AI for energy knowledge discovery accelerating human capacities.
- Modelling specific policy implementations under the EGD, Fit-for-55, and Climate Neutrality target.
- Cross-border energy coordination and market design evolution.
- Understanding the interactions within the climate-economy-biodiversity nexus, and how to bring these considerations into the ex-ante impact assessment modelling tools.
- Expand the assessment indicators, including wider policy priorities such as competitiveness, health, justice.

ECEMP 2025 is organized by various EU-funded projects under the Horizon Europe programme, DGs at the European Commission and other initiatives. The active participation of these projects makes ECEMP 2025 possible. The main projects organizing and leading ECEMP 2025 under a joint effort are the following:



DECIPHER
Holistic decision-making for climate & environment



EUROPEAN
CLIMATE + ENERGY
MODELLING
FORUM

ECEMP 2025 will be an event in Brussels, featuring segments dedicated to policy-relevant research results and in-depth discussions on the latest trends in modelling development. **The event will also be streamed online.**

Date: 30-31 October 2025, Brussels and online

ECEMP Organizing Committee: Jakob Rager (Chair), Zoi Vrontisi (Co-chair), Davide Natalini (Co-Chair), (Co-chair), and Johannes Emmerling (Co-chair).