

ECEMP 2026

Climate Change, Energy Security and Competitiveness: Modelling an energy system under stress

Our earth is on a trajectory of at least 2°C of global warming if there are no significant reductions on carbon dioxide emissions within the near future. The effects are already noticeable in many regions with more extreme weather in the form of, e.g., more frequent and widespread droughts alternated with floods.

In an effort to change the trajectory of global warming, energy policy initiatives such as the EU Green Deal and REPowerEU aim to accelerate the transformation of the energy sector. The European endeavour to achieve GHG neutrality by 2050, has been further exacerbated with the conflict in the Ukraine, putting energy security high on the agenda. At the same time industry is suffering from strong competition from outside the EU, often having access to cheaper energy. The priorities of the public have shifted accordingly.

The modelling landscape faces these challenges as well, with models that require proper representation of technologies and a changing climate, accurate spatial and temporal resolution, all in an increasingly uncertain environment. This calls for a stronger interplay between different types of models: energy models, climate models, integrated assessment models, etc.

ECEMP 2026 is dedicated to showcasing the latest policy-relevant findings derived from analyses and models. The event serves as a meeting point to discuss the latest research trends and collaborations. The topics and themes are therefore centered around (but not limited to):

- **Competitiveness and climate**, reconciling the green energy transition and competitiveness of European industries in a changing global context.
- **Strategic resources**, import versus self sufficiency, circular economy, synergies and barriers between the energy transition and security of supply of energy and raw materials.
- **Near-term Policies**, modelling/analysing the feasibility of policies and the post 2030 climate energy framework under various social, technical and economic constraints.
- **Social justice**, the social aspect of the energy transition in different policies and modelling approaches.
- **Market interaction**, practical implementation of the green energy transitions, the entrance of emerging technologies in already saturated markets.
- **Interoperability**, certification, comparison and collaboration of energy system models.
- **Interaction of energy and climate models**, joint modelling of climate-energy scenarios, stress testing the decarbonised energy system and providing insights for “critical infrastructure”.
- **Interaction of energy and integrated assessment models**, linking the results of models.

Submission Procedure: Extended abstracts (or full papers) are acceptable to be submitted.
deadline 12 June 2026

Date: 21-22 October 2026 **Location:** JRC/RTD building in Brussels (for presenters) and online

ECEMP 2026 is organized by various projects under the Horizon Europe programme, DGs at the European Commission and other initiatives. The main projects organizing and leading ECEMP 2026 under a joint effort:



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