

EMP-E 2019 — PLENARY SESSION II: THE EFFECTS OF EXTERNALISATION ON DECARBONISATION

Format

Brief introduction to the session (5 min.) and three plenary presentations of 10 minutes each (primers) followed by a moderated panel discussion with the public (25 minutes).

Short description of the session.

This session focuses on three concrete concerns emerging in biophysical modelling:

1. A quick transition to a low-carbon economy will imply a temporary increase in CO₂ emissions;
2. Some decarbonisation pathways are based on externalisation (outsourcing);
3. The link between structural changes, externalisation and energy efficiency savings are often missed in current modelling.

The three plenary presentations addressing these issues will be followed by a moderated discussion with the public.

Speakers:

Session chair and moderator: Raúl Velasco-Fernández, Universitat Autònoma de Barcelona

Introduction to session: Philippe Tulkens, DG RTD Unit G.1 Energy Strategy (tbc)

- Renewable Transition and energy cannibalism: net energy and energy payback time.
Jordi Solé Ollé, Institut de Ciències del Mar (ICM-CSIC), Barcelona
- Modelling the effects of externalization (carbon leakages)
Maddalena Ripa, Universitat Autònoma de Barcelona
- Modelling the effects of structural changes and terms of trade
Mario Giampietro, Universitat Autònoma de Barcelona/ICREA

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