

ModNET

E3 modelling of New Energy Technologies

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CAMBRIDGE ECONOMETRICS

Cambridge Econometrics as Co-ordinator

- **Cambridge Econometrics**
 - SME
 - independent
- **Coordinator of FP4, FP5 projects**
 - E3ME
 - SeaMate, TIPMAC
- **Models:**
 - E3ME 4.0
 - E3MG 2.0 (with Tyndall)

Proposed partners

- **German Institute for Economic Research (DIW) (Claudia Kemfert)**
- **PIK – Potsdam (Ottmar Edenhoffer)**
- **EconMod – Brussels Free University (Ali Bayar)**
- **IIASA (Leo Schrattenholzer)**
- **ENERDATA (Bertrand Chateau under negotiation)**
- **SCB (Viveka Palm)**
- **Centro de Estudios Económicos Tomillo (Juan Carlos Collado)**
- **Tyndall Centre (Jonathan Koehler)**

Models covered

- **WIAGEM, ECOBICE – DIW**
- **MIND – PIK-Potsdam**
- **MenaMod (middle East) – EconMod-BFU**
- **MESSAGE-MACRO, ERIS (RTD), MERGE – IIASA**
- **POLES – ENERDATA**
- **E3ME-Sweden – SCB**
- **MIDE – CEET**
- **E3MG – Tyndall Centre**
- **E3ME – CE**

The Partnership

- **Good coverage of energy and environment and economy models**
- **Important models included (POLES, IIASA models, E3ME, CGEs)**
- **Medium-term and long-term models**
- **Good balance between**
 - bottom-up and top-down
 - data provider and researchers
 - SMEs, universities and research establishments

Tasks

- **Development, improvement and updating of modelling tools and qualitative methods 2030-2100 focussed on EU issues**
- **Models included**
 - world and European
 - energy
 - macro-economic and
 - econometric

Tasks (*continued*)

- **Development, improvement and updating of databases**
 - RDT
 - Fossil fuel reserves
- **Application of models to world and EU policies:**
 - emission trading, green certificates (IIASA models)
 - reliability of infrastructure in energy liberalised market
 - building scenarios (technology transition to 2050, highlighting most effective energy RTD strategies)

Topics for Research

- **New modelling tools**
- **Qualitative forecast methods for medium and long term (Tyndall and Enerdata)**
- **Technology transition to 2050**
- **Energy RTD data and strategies**
- **Fossil fuels reserves, infrastructure, investment in drilling, etc.**