

CASCADE MINTS

Case study comparisons and development of energy models for integrated technology systems

In the coming decades, Europe's energy system will be facing a number of challenges. Some of these, such as the enhanced greenhouse effect and depletion of fossil fuel resources have a worldwide dimension. Consequently, in designing strategies for tackling these issues, worldwide developments must be taken into account. Alternative energy sources and new technologies will have to play a key role. In the analysis of the potential impact of new technologies and the evaluation of possible policy options, energy - economy - environment (E3) models can provide useful insights.

In the CASCADE MINTS project, fifteen of these E3 models are being used to evaluate possible developments of the world energy system and the implications for Europe.

The CASCADE MINTS project is split into two distinct parts:

- Part 1, coordinated by NTUA, focuses on modelling, scenario evaluation and detailed analysis of the prospects of the hydrogen economy.
- The main aim of Part 2, coordinated by ECN, is to use a wide range of existing operational energy and energy/economy models in order to build analytical consensus concerning the impacts of policies aimed at sustainable energy systems. This involves modelling teams from both inside and outside the EU.

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Publications so far:

The contribution of renewable energy to a sustainable energy system; Volume 2 in the CASCADE MINTS project

<http://www.ecn.nl/library/reports/2005/c05034.html>
July 2005

Energy trends for Europe in a global perspective: Baseline projections by twelve E3-models in the CASCADE MINTS project

<http://www.ecn.nl/library/reports/2004/c04094.html>
December 2004

Coming soon:

The contribution of nuclear energy to a sustainable energy system; Volume 3 in the CASCADE MINTS project, December 2005.

More information?

More information on the project can be found on <http://www.energytransition.info/cascade-mints>.

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