

Energy demand & CO2 emissions forecasting

Objective

This training session is dedicated to long term energy demand forecasting models. It will provide methodologies and tools to understand and design econometric and end-use models.

Upon completion of this training, participants will be able to:

- Become familiar with forecasting issues
- Understand the different elements of energy demand by sector
- Gain experience of econometric or technico-economic model construction
- Elaborate a scenario
- Investigate the potentials and energy efficiency policies
- Discover the MEDEE Model

Who will benefit

This downstream economics training is a practical course for the professionals in charge of forecasting and planning studies in energy industries and administrations: economist, planification manager, analyst, engineer, researcher, project manager, coordinator, consultant...

Teaching method

All seminars are animated by international experts with more than 15 years of experience in the energy sector. Case studies will be explored to put into practice the concepts learnt during the seminar. Quality teaching materials will be provided during the seminar.

Program

Session 1 Introduction : modeling issues

Session 2 Industry

Session 3 Households

Session 4 Tertiary, transport

Session 5 Appropriate use of models

Duration: 5 jours

Date

23-27 November, 2009

Location:

Grenoble, France

Tuition: from 1 500 €

Refreshments included

Registration available on
[www.enerdata.fr / training](http://www.enerdata.fr/training)

Contact Information & Registration

Nathalie Pelikan

T: +33 (0)1 49 26 09 43

F: +33 (0)1 42 60 22 62

Email: training@enerdata.fr

www.enerdata.fr

Other options available:

- Corporate workshops
- Customized classes

Session 1 introduction

End-use models

Introduction : modeling issues

Econometric modeling: case of POLES

- Prospective analysis of economic instruments
- Case studies

End-use models

- Example of the Med-Pro Model
- Accounting for regulatory measures, for technical progress...
- Case studies

Session 2 - Industry

- Historical trends and context of policies and measures
- Drivers of the industrial energy demand : growth, intensities, consumption by unit, market shares, energy efficiency
- Case studies

- Impact of energy efficiency and CO2 mitigation policies
- Case of emissions allowances: Aspen Model

Session 3 - Households

- Historical trends and context of policies and measures
- Drivers of the energy demand : demography, equipment, market shares, energy efficiency
- Heating, specific use of electricity
- Impact of rational energy efficiency and CO2 mitigation policies
case of Regulations

Session 4 – Tertiary & transport

Tertiary Sector

- Historical trends
- Modeling of drivers : employment, equipment, market share, energy efficiency

Transport

- Modeling of drivers : fleet, traffic, unit consumption, modal split
- Problems of regulatory instruments : case of cars

Session 5 Appropriate use of models

Building scenarios

- Why scenarios?
- How to build scenarios to evaluate policies?

From scenarios to decisions

- How to evaluate and interpret several forecasts for a unique decision?

Training evaluation