



## CEPS/ECN Workshop

### The future of EU electricity grids: Who will benefit from smart grids and at what costs?

The fast deployment of smart grids does not occur without smart policy interventions. This workshop will focus on policy measures that need to be taken to enable a smooth absorption of large quantities of renewable electricity into European electricity grids.

8 March 2010

Venue: CEPS, Conference Room  
Place du Congrès 1 – 1000 Brussels; Tel. +32 2 229 3911

**09:00** Registration and coffee

**09:30** Start of the Workshop

#### SESSION I. “What are smart grids and who will benefit?”

Chair: **Arno Behrens**, Research Fellow and Head of Energy, CEPS

To reach the EU’s 2020 energy and climate change targets, a large increase in the volume of renewable electricity (RES-E) generation is required. The bad news is that strengthening electricity grids to deal with larger volumes of RES-E can result in soaring network costs. However, the good news is that by making use of the flexibility in small-scale generation and in electricity demand, and by introducing innovative technologies in the network itself, grids will become ‘smarter’, which can greatly reduce the cost escalation in upgrading Europe’s electricity networks.

09:35 Introduction by **Hans ten Berge**, Secretary General, Eurelectric

09:45 Integration of distributed generation and electricity system benefits, **Frans Nieuwenhout**, ECN

09:55 **Laurein Cornelissen**, ENTSO-E

10:05 **Leon Sijbers**, Business Manager Smart Grid Europe, GE

10:15 Discussion

**11.00- 11.30 Break**

**SESSION II. “What are the costs of future electricity networks and who will pay for them?”**

Chair: **Frans Nieuwenhout**, Group Energy Production, Networks and Markets, ECN

This session will look at the finance of future grids with high shares of distributed generation and demand response. Expected costs, innovative ways in financing the new networks and incentives for localisation of investments in networks will be some of the questions addressed.

11:30 Introduction by **Andras Hujber**, DG Energy (kindly replacing Tadhg O’Brian)

11:40 Importance of smart grids investments and their role in the decarbonised power system, **Jaap Strengers**, European Climate Foundation

11:50 Minimizing the cost of integrating distributed generation and incentives for localisation of investments in networks, results from the IMPROGRES project, **Rafael Cossent**, Comillas, Spain and **Henrik Jacobson**, Risoe DTU, Denmark

12:00 **Dario Garofalo**, Regulatory and Environment, Enel SpA

12:10 Discussion

**13.00-14.30 Lunch**