



International Workshop on Technology Learning and Deployment
- A Workshop in the Framework of the G8 Dialogue on Climate Change, Clean Energy
and Sustainable Development

11-12 June 2007

IEA Headquarters

9 Rue de la Fédération, 75015 Paris

Métro Bir-Hakeim (Line 6), RER C - Champ de Mars – Tour Eiffel

<http://www.iea.org/textbase/about/map.asp>

In response to the IEA 2005 Ministerial Communiqué and the Gleneagles G8 Plan of Action: Dialogue on Climate Change, Clean Energy and Sustainable Development, the IEA has initiated or is continuing a number of projects and activities regarding sustainable energy supply. The collective aim of this effort is a clean, clever and competitive energy future.

Energy Technology Perspectives: Scenarios and Strategies to 2050 (ETP) 2006 has been one of the IEA's most successful and influential publications. It provides detailed technology and policy insights to help policy makers craft sustainable solutions. ETP 2008 will build on the analysis and success of the first edition and will examine pathways to arrive at the Accelerated Technology Scenarios.

Technology learning is a key issue for energy R&D and energy investment decisions in emerging new technologies. Experience curves help clarify the potential benefits of deployment programmes and provide policy analysts with a tool to explore technology and policy options which can support the transformation of energy systems. The objective of the workshop is to bring together an advisory group of experts to discuss potential deployment programmes aimed at the key supply technologies discussed in ETP 2006. The main focus of this workshop will be on supply technologies.

Workshop Topics:

- Technology learning and experience curves
- Deployment of renewable energy technologies
- Deployment of biofuels, CCS, nuclear and fuel cells
- Policies to accelerate the deployment of clean energy technologies

Experts are invited to share experiences and provide input to the ETP 2008 publication, which will report to the Japanese G8 presidency in 2008. The workshop will bring together key experts with hands-on experience in technology deployment policy setting from governments, industry, academia and international organisations in both IEA Member and non-Member countries.



Technology Learning and Deployment Workshop

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- Draft agenda 5/6/2007 -

Monday 11 June

8:45 Registration

9:00 Opening and the G8 programme

Neil Hirst, Director, Energy Technology and R&D, IEA

9:20 Energy Technology Perspectives 2008

Dolf Gielen, Energy Technology Policy Division, IEA

9:45 ETP 2008: Deployment Chapter

Cecilia Tam, Energy Technology Policy Division, IEA

10:00 Session 1: Learning curves and technology learning

Chair: Clas-Otto Wene

Why and how to use experience curves to design and evaluate deployment programmes

Clas-Otto Wene, Wenergy

Learning curves and Wind

Martin Junginger, Utrecht University

Learning curves and PV

Gregory Nemet, University of California

11:00 Coffee break

11:30 Session 1 (*continued*)

Learning curves for Biofuels

Martin Junginger, Utrecht University

Learning curves and Fuel cells

Bob van der Zwaan, ECN

Learning curves and CCS

Ed Rubin, Carnegie Mellon University

12:30 Lunch break

14:30 Session 2: Deployment of Renewable Technologies

Chair: Piotr Tulej, European Commission

Findings from RETD's RECABS project

Hans Henrick Lindboe, Ea Energianalyse S.A. & RETD

Cost reduction potentials in wind

Joergen Lemming, Risø National Laboratory

PV Deployment in Portugal

Antonio Joyce & Isabel Cabrita, National Institute of Engineering Technology and Innovation (INETI)

15:30 Coffee break

16:00 Session 2: Deployment of Renewable Technologies (continued)

Bioenergy

Ralph Sims, IEA

Bioenergy

George Weyerhaeuser, Weyerhaeuser Company

2nd generation biofuels

Jack Saddler, U of British Colombia

17:00 Roundtable: Bring down the cost of Renewable Energy

Chair: Tom Howes, DG TREN

EU Renewables target

Tom Howes, DG TREN

Tuesday 12 June

9:00 Session 3: Deployment of CCS, Nuclear and Battery Technologies

Chair: Cecilia Tam, IEA

CCS

Jacek Podkanski, Kamel Bennaceur, Uwe Remme, IEA

Nuclear

Andrew Teller, Areva

Battery Technologies for Cars

Kuniaki Tatsumi, National Institute of Advanced Industrial Science and Technology (AIST)

10:00 Session 4: Accelerating the Deployment of Clean Technologies

Chair: Daniel Argyropoulos, BMU

Using knowledge on technology cycles to foster deployment of energy technologies

– Results of German EDUR&D project

Clemens Cremer, Fraunhofer Institute Systems and Innovation Research

Balance between R&D and deployment

Ferenc Toth, International Atomic Energy Agency

The role of niche markets
Hans Nilsson, *DSM Implementing Agreement*

11:00 Coffee break

11:30 Session 5: Industry view on Deployment of Clean Technologies
Chair: Adam Kirkman, WBCSD

World Business Council for Sustainable Development
Adam Kirkman, WBCSD

GE

Mete Maltepe, Global Sales Leader, Wind Energy

Iberdrola

Carlos Gascó Travesedo, Head of the Prospective Unit, Iberdrola Renewable Energies

12:30 Lunch break

14:30 Session 6: Role of Governments in Funding, Policy and International Co-Operation
Chair: Isabel Cabrita, National Institute of Engineering Technology and Innovation (INETI)

Canada

Graham Campbell, Director General, Office of Energy Research and Development, Natural Resources Canada

Japan

Toshiyuki Shirai, Deputy Director, General Policy Division, Agency for Natural Resources and energy, METI

EU

Piotr Tulej, Head of Energy and Environment Unit, European Commission

Germany

Daniel Argyropoulos, Ministry for Environment, Nature Conservation and Nuclear Safety (BMU), Germany

15:30 Coffee break

16:00 Roundtable: Recommendations to G8
Chair: Dolf Gielen, Energy Technology Policy Division, IEA

17:00 Closing