



Industry Scenarios and Indicators: Expert Review Workshop

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

In collaboration with the World Business Council for Sustainable Development



11-12 February 2008

IEA Headquarters

9 Rue de la Fédération, 75015 Paris

RER C - Champ de Mars – Tour Eiffel

At their 2005 Gleneagles Summit the G8 leaders asked the IEA to provide advice on a clean, clever and competitive energy future, including a transformation of how we use energy in the industrial sector. The IEA publication, *Tracking Industrial Energy Efficiency and CO₂ Emissions* was prepared in response to that request. The report uses the best publicly available statistics combined with innovative methodologies to examine trends in worldwide industrial energy efficiency and estimate the additional technical savings potential.

This study is a first attempt to provide a reliable and meaningful set of global indicators of energy efficiency and CO₂ emissions in the manufacturing industrial sector. It has drawn on a comprehensive analysis of the available data, numerous workshops with experts from key industries and an extensive review process. One important conclusion from this process is that more work is needed to improve the quality of data and refine the analysis. Key sectors requiring further work include iron and steel, chemicals and petrochemicals, and pulp and paper.

Improving and extending the analysis will require sensitivity and confidentiality issues to be overcome to allow a more detailed, complete, timely, reliable, and open database to be developed. Policy makers, industry, analysts and others are calling for more reliable estimates of energy savings and CO₂ emission reductions potentials. This can only be achieved if accurate and complete energy use and efficiency data are available.

Modelling and scenario development plays an important role in the industry analysis, especially in the second part of the IEA's programme of work. As a first response to the G8 request, the IEA has developed new scenarios that analyse impacts of technology related policies in the period to 2050. The next edition of *Energy Technology Perspectives* in 2008 will contain a special chapter with industry scenario analysis that cover the potential of existing and emerging technologies. In the second half of 2008, a separate publication with detailed industry scenarios will be issued by the IEA.

Following on from the *Tracking Industrial Energy Efficiency and CO₂ Emissions: The Way Forward* workshop held in Paris on 1-2 October 2008 this meeting aims to finalise industry input into the G8 Hokkaido Summit, which was requested at the 2005 G8 Summit in Gleneagles. The two main objectives of this workshop are: 1) to discuss our industry scenario analysis for

ETP 2008 and 2) to review the updates of the IEA work on industrial energy efficiency and CO₂ emissions. The meeting also aims to identify recommendations for promoting international technology transfer and measures to further engage Chinese industry.

Questions to be addressed:

Are the proposed scenarios in line with industry thinking?

How can the scenarios be improved?

How much can emerging and breakthrough technologies contribute to efficiency and emissions reduction gains?

How can technical and cost barriers be overcome to widen the adoption of new energy efficient technologies in industry?

What is the likely timeframe for implementation? What are the limits to these technologies' share of production?

How would implementation of the emerging and breakthrough technologies (within the stated limits and capital stock turnover cycles) translate into energy use and CO₂ emissions per tonne of product?

How can the IEA deepen its collaboration with industry?

What are the latest data that are available for energy indicators?

How can we further improve the industry indicator analysis in the next two months?

Monday 11 February

8:45 Registration

9:00 Welcome address

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

9:10 Key Message from World Business Council for Sustainable Development (WBCSD)

George Weyerhauser, WBCSD

9:20 Key Message from Japan

Jun Arima, Japan, METI

9:30 Indicators Update

Peter Taylor, IEA

9:50 Industry chapter: *Energy Technology Perspectives 2008*

Dolf Gielen, IEA

10:30 Coffee break

11:00 Scenario Assumptions and Analysis

John Newman, IEA

11:40 Session 1: *Feedback on IEA Scenario Analysis and Update on Industry Initiatives*

Cement Sector

Cement Sustainability Initiative (CSI)

Petrochemicals Sector

International Council of Chemical Associations (ICCA)

Pulp and Paper Sector

International Council of Forest Products Association (ICFPA)

13:00 Lunch

15:00 Session2: *Breakout Sessions*

Iron and Steel – IEA

Cement –WBCSD

Aluminium –IEA

Petrochemicals & Ammonia– IEA

Pulp & Paper – WBCSD

Topics to be discussed during break out session include:

Scenario analysis

Potential for new technologies and cost of deployment

Review of updated indicators analysis

Data issues

Opportunities for future collaboration

Tuesday 12 February

9:00 Session 3: Continuation of Session 1, Feedback on IEA Scenario Analysis and Update on Industry Initiatives

Iron and Steel Sector

International Iron and Steel Institute (IISI)

Aluminum Sector

International Aluminium Institute (IAI)

Ammonia Sector

International Fertilizer Association (IFA)

10:30 Coffee break

11:00 Session4: International Technology Collaboration

Update on various International Initiatives for Reducing CO₂ Emissions from Industry

Jun Arima, METI, to be confirmed

Update on Major Economies Meeting

Rick Bradley, IEA to be confirmed

Engaging China – China Industry workshop on 18-19 March

Cecilia Tam, IEA

11:30 Session5: Other IEA Activities

Latest Insights on Sectoral Approaches and Competitiveness

Julia Reinaud, IEA

Industry Scenarios Publication

Cecilia Tam, IEA

12:00 Roundtable – Conclusions and messages to G8

Chair: Dolf Gielen, IEA

- Feedback from breakout sessions
- Recommendations to G8
- Towards an international dialogue: which platform?
- Involvement of producers from developing countries
- Deepening IEA-Industry collaboration

13:00 Closing remarks

WBCSD and IEA