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“ MEETINGS OF MINDS ”

Still just time
to register

How to
meet the
CO₂ challenge
in Refining



ERTC Sustainable Refining Conference

31 March – 2 April 2008
Radisson SAS Hotel, Brussels

Highlights

- EU Climate and Energy Policy Challenges
- Implications of CO₂ Reduction Commitments on Products
- Reduction in Lifecycle Greenhouse Gas Emissions from Fuels
- Future Vehicle Requirements
- Role of Oxygenates and Additives for Low Carbon Fuels Production
- The Future Shape of the Emissions Trading System (ETS)
- Benchmarking CO₂ Emissions
- CO₂ Emissions, Measurement and Compliance
- Process Integration for Reduced Energy Consumption
- Process Optimisation to Reduce CO₂ Emissions
- Role of CCS for Refiners

Key presentations from

- European Commission, DG-Environment:
P. Mogens Carl, Director General and I. Hodgson,
Policy Officer Clean Air & Transport
- European Parliament: C. Turmes MEP and
D. Corbey MEP

Global Alliance Partner: **Hydrocarbon Processing**

A GTF Conference www.gtforum.com

Introduction

On April 1 & 2 Global Technology Forum will be organising a conference in Brussels on 'Sustainable Refining'.

The conference is initiated with the intention to increase awareness among the refining community on the need for more drastic steps to reduce the carbon intensity of their operations and their products. So far the urgency has not (yet) been there and as a consequence developments are not progressing at the speed required.

Like many industries, the efforts until now have been focused on making the best of the current facilities and operations, gradually improving energy efficiency where there was an economic justification. In addition there are many concepts in the 'pilot phase', like CCS and 2nd generation biofuels, but the necessary next steps of 'demonstration and commercialisation' are not occurring at the required pace. It is felt that against the background of the new energy security and climate ambitions, more radical 'out of the box' ideas need to be developed and implemented.

Senior representatives of the EU institutions, among whom Mr. Mogens Peter Carl, Director-General of DG-Environment, Mrs. Dorette Corbey MEP (NL, PSE) and Mr. Claude Turmes MEP (Lux, Greens), are invited to discuss the forces driving the need for a low carbon environment and will review the proposed legislative initiatives that would deliver the necessary GHG reductions. Industry executives will present how they expect to respond to the call to more aggressively pursue development efforts on carbon reduction technologies like CCS, energy efficiency and alternative fuels (incl. biofuels), either on their own or in partnership with other industries. The industry is also invited to make concrete proposals on practical measures required to create the legislative certainty to encourage the necessary investments NOW.

The agenda will cover three sessions that aim to provide an overview of:

- The political and societal pressures which drive Europe towards a low carbon economy and the industry's strategic response to these
- The implications on products and markets
- The implications on refinery operations

The latter two sessions will focus on clarifying the proposed legislation in detail and sharing practical industry experience and presenting novel solutions and approaches.

The meeting is expected to attract senior executives from the oil industry, other related industries, hardware and technology suppliers and other service providers. It will offer an opportunity to interact with lawmakers, NGOs and representatives from other industry sectors and to network with colleagues and service providers and suppliers.

Who should attend?

- Refining Management
- Technology Management
- Corporate Strategic Planning
- Process & Technical Support Staff
- Engineering, Catalyst & Chemical Companies
- Industry Consultants & Analysts
- Project Management
- Process Licensors
- Environment Specialists
- Climate Specialists
- Product Specialists

Programme

MONDAY 31 MARCH 2008

14:00 onwards **Conference Registration**
followed by **Evening Reception**



For latest programme information visit www.gtforum.com

TUESDAY 1 APRIL 2008

Conference Chairman: **Peter Tjan, PT-Management Consultants**

08:50 **Introduction and Welcome**

PLENARY SESSION

European Policy Challenges

09:00 **Review of the Legislative Initiatives to Deliver a Low Carbon Environment**

European Commission, DG-Environment:
Peter Mogens Carl, Director General

09:30 **EU Renewable Energy Policy; A Parliament Perspective**

European Parliament: Claude Turmes MEP

10:00 **To be advised**

Shell: William Spence

10:30 **How EU Refining can meet Worldwide Energy, Environmental and Competitive Challenges**

ExxonMobil

11:00 **Morning Break**

PRODUCTS SESSION

Implications of CO₂ Commitments for Products

11:30 **GHG Emissions Reduction from Road Transport Fuels – The Commission's Proposal**

European Commission, DG-Environment:
Ian Hodgson, Policy Officer Clean Air & Transport

12:00 **GHG Emissions Reduction from Road Transport Fuels – The Parliament's View**

European Parliament: Dorette Corbey MEP

12:30 **Reducing the Carbon Footprint of Transport Fuel – The Dos and Don'ts**

NGO: Jos Dings, T&E (European Federation for Transport & Energy)

13:00 **Lunch**

PRODUCTS SESSION

The Industry Perspective

14:30 **Issues of Vehicle and Fuel Compatibility**

ACEA – European Automobile Manufacturers Association:
Paul Greening

15:00 **ETBE Enhances Ethanol CO₂ Performance**

EFOA – European Fuel Oxygenates Association:
Walter Mirabella

15:30 **The Role of Fuel and Lubricant Additives: An ATC Perspective**

ATC – Technical Committee of Petroleum Additive Manufacturers:
Trevor Russell

16:00 **Afternoon Break**

16:30 **CO₂ Reduction for Road Transport Fuels**

EUROPIA – European Petroleum Industry Association:
Harald Schnieder, Executive Officer

17:00 **Opportunities and Challenges – Tackling the Climate Change: Case NExBTL – Renewable Diesel**

Neste Oil: Simo Honkanen

17:30 **Session closes**

followed by **Evening Reception**

WEDNESDAY 2 APRIL 2008

Conference Chairman: **Peter Tjan, PT-Management Consultants**

08:50 **Introduction**

REFINERY OPERATIONS SESSION

Meeting CO₂ Commitments

09:00 **To be advised**

European Commission, DG-Environment: ETS

09:30 **Benchmarking – Creating a Level Playing Field for Carbon Allocations**

Solomon Associates: Bill Trout, Global Climate Change Director

10:00 **Main Issues/Findings Identified during the 1st Verification Period and the Concerns Regarding the Application of the Guidelines for the 2nd Period**

Ernst & Young: Christophe Schmeitzky

10:30 **Morning Break**

REFINERY OPERATIONS SESSION

Process Integration

11:00 **Sustainable Refining Systems – An Infrastructure Perspective**

Technical University Delft: Gerard Dijkema, Associate Professor

11:30 **Sustainability in Refining – Paradigm Shift in Design Thinking Required!**

Fluor: Claus-Peter Haelsig, VP Process & Technology

12:00 **Sustainable Refining; Unsustainable Trade?**

Purvin & Gertz: Nigel Cuthbert

12:30 **Lunch**

REFINERY OPERATIONS SESSION

Operations: The Industry Perspective

14:00 **Refinery CO₂ Emissions: History, Trends and Mitigating Options**

Concawe: Jean Francois Larive

14:30 **The Potential Role of Carbon Capture and Storage**

Shell: Frigyes Lestak, General Manager CO₂ Efficiency

15:00 **Reducing CO₂ Emissions in a North American Refinery**

KBC: Michiel Spoor

15:30 **Afternoon Break**

16:00 **CO₂ Emissions and Its Impact on the Future of Refineries**

MOL: Zoltan Szerencses

16:30 **Integrating Carbon Reduction Strategies into your Refinery**

Foster Wheeler: Mike Stockle, Principal Process Engineer

17:00 **A Watchdog System for Energy Efficiency and CO₂ Emissions Reduction**

Soteica: Diego Ruiz and Carlos Ruiz

17:30 **Conference close**

