

Implementing the Strategic Research Agenda for sustainable biofuels

From pilots to demonstration plants

The Strategic Energy Technology Plan (SET-Plan) proposed by the European Commission and endorsed by the Energy Council in February 2008 is calling for a sharp acceleration in deployment of innovative energy technologies, delivering progress beyond “business as usual” RD&D implementation to bring a strong contribution to the ambitious EU 2020 Climate & Energy objectives.

Within the SET-Plan, the European Industrial Initiative on Bio-Energy (EII-B) provides a timely opportunity to look at the challenges of demonstrating the most promising technologies in the large and complex area of bioenergies.

Demonstration was identified by the EBTP Strategic Research Agenda and Strategy Deployment Document (SRA/SDD) as a critical step in achieving the EU's ambitious goals for biofuels as part of its Energy and Climate Policy. The EBTP has developed a pragmatic approach during 2008, to identify and analyse the innovative biofuels and bioenergy value chains that could bring a significant contribution to the ambitious EU objectives for renewables and sustainable biofuels, in addition to existing bioenergy and biofuels pathways.

The 2nd Stakeholder Plenary Meeting, will offer the opportunity to present ongoing activities of the EBTP initiated after the launch of the SRA/SDD in January 2008, with special attention given to case study presentations on pilot and demonstration plants, showing the challenges to be met and ways to overcome them.

*Véronique Hervouet,
Chair of the Steering Committee, Biofuels TP*

European Biofuels Technology Platform

The European Biofuels Technology Platform (EBTP) was established in 2006 to contribute to the development of cost competitive world class biofuels technologies and accelerate the deployment of sustainable biofuels in the European Union, allowing the development of a healthy biofuels industry, through a process of guidance, prioritisation and promotion of research, development and demonstration activities.

EBTP brings together the knowledge and expertise of stakeholders active in the biofuels value chains: biomass resources providers, biofuels and bioenergy producers, technology vendors, transportation fuels distributors & marketers, road transportation industry, research & technology development organisations and NGOs. It is managed by a Steering Committee and supported by a Secretariat, the European Commission being an active observer. Stakeholders can register and share access to key contacts, internal and external reports, events, opinions and expertise on biofuels R&D&D.

The main activities are carried out through five working groups (biomass, conversion, logistics & end use, sustainability, markets & regulations) which were established after the launch of the European Biofuels TP in June 2006. These working groups have prepared a Strategic Research Agenda and a Strategy Deployment Document which were presented on 31 January 2008 at the first EBTP Stakeholder meeting in Brussels. WG6 was established in March 2008 to identify priority areas for R&D&D and to prepare EBTP's contribution to the European Industrial Initiative on Bio-Energy.

Contacts

To receive regular up-dates on the activities of the European Biofuels TP, please register at: www.biofuelstp.eu

Contact with the European Biofuels TP can be made via the Secretariat: secretariat@biofuelstp.eu, info@biofuelstp.eu

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European Biofuels Technology Platform 2nd Stakeholder Plenary Meeting

Implementing the Strategic Research Agenda for sustainable biofuels From pilots to demonstration plants

22nd January 2009

Diamant Brussels

Conference and Business Centre

8.00 **Registration**

9.00 **WELCOME and KEYNOTE ADDRESS**

Véronique Hervouet, Chair of Steering Committee (SC), EBTP

9.10 **IMPLEMENTING THE SRA: POLICY AND BIO-RESOURCES CONTEXT**

Moderator: Véronique Hervouet, Chair of Steering Committee (SC), EBTP

1. The EU SET Plan and European Industrial Initiatives
Raffaele Liberali, DG Research, Director of Directorate K – Energy

2. Biofuels & Biorefinery research and demonstration activities of the European Commission: update on recent developments

Bruno Schmitz, DG Research, Head of Unit K3 New and renewable energy sources & Jose Riesgo, DG Transport and Energy,

3. Availability of sustainable biomass feedstocks for biofuels: update on key issues

Calliope Panoutsou, Vice Chair of Working Group 1 on Biomass Availability and Supply, EBTP

10.05 **EBTP's MAIN CONTRIBUTIONS TO IMPLEMENTING THE STRATEGIC RESEARCH AGENDA AND PREPARING DEMONSTRATIONS**

Moderator: Anders Røj, Vice Chair of Steering Committee (SC), EBTP

1. Mapping activities of the EBTP: databases of main ongoing biofuels related R&D projects, pilot & demonstration plants and public biofuels debates
Birger Kerckow, Secretariat of the EBTP

2. The identification of Bioenergy value chains of potential relevance to EII-B

Markku Karlsson, Vice Chair of Steering Committee (SC) and Co-chair of Working Group 6 on Prioritisation, EBTP

10.30 Discussion

10.45 **Coffee Break (and Poster Session)**

11.00 **FROM PILOTS TO DEMONSTRATION PLANTS: CASE STUDIES I**

Moderator: Kai Sipilä, Chair of Working Group 2 on Conversion, EBTP

1. The CHOREN Sigma Plant
Matthias Rudloff, Business Development Manager, CHOREN Industries GmbH

2. The BTL demonstration project of Neste Oil / Stora Enso

Steven Gust, Senior Associate, Neste Oil

3. UPM Biofuels development and pilot projects
Hans Sohlström, Executive Vice President, UPM

4. The Bio-DME project

Patrik Löwnertz, VP Marketing and Sales, Chemrec

12.00 Discussion

12.30 **Lunch Break (and Poster Session)**

13.40 **FROM PILOTS TO DEMONSTRATION PLANTS: CASE STUDIES II**

Moderator: Harri Turpeinen, Chair of Working Group 3 on End-use and Co-chair of Working Group 6 on Prioritisation, EBTP

1. Combining industrial scale biosynfuel production with economic biomass logistics:

The bioliq® process of the Karlsruhe Institute of Technology in co-operation with Air Liquide / Lurgi
Nicolaus Dahmen, bioliq® Project Coordinator, Karlsruhe Institute of Technology -KIT

Armin Guenther, Air Liquide / Lurgi GmbH

2. The FUTUROL project on 2nd generation Ethanol
Pierre Porot, Institut Français du Pétrole, IFP

3. Demonstration of 2nd Generation Biofuels in Denmark

Michael Persson, Inbicon

4. St1 Biofuels – small scale demonstration on bioethanol from biowaste

Mika Anttonen, St1 Biofuels

5. Overview of Pilot and Demonstration Activities in the USA

Anders Lay Tuxen, Novozymes

15:00 Discussion

15.30 **FINANCING DEMONSTRATIONS**

Moderator: Olivier Appert, Member of the Steering Committee (SC), EBTP

1. Overview of Member States funding schemes
Tomas Kåberger, Director General, Swedish Energy Agency (STEM)

2. Private Equity funding of advanced biofuels technologies: a European and North American outlook:

Harry Boyle, New Energy Finance

16:00 Discussion

16:20 **CONCLUSION AND OUTLOOK: THE NEXT STEPS**

Véronique Hervouet, Chair of Steering Committee (SC), EBTP

16:30 **End of Meeting**

POSTER SESSIONS

SNG production from woody biomass
Paul Scherrer Institute, PSI

Mapping of second generation biofuels demonstration plants
IEA Bioenergy Task 39

The Alfa-Bird Project
EU-Vri, Project coordinator

The GAYA project: Demonstration plants on gasification for biomethane production
GDF Suez

GoBiGas Project
Gothenburg Energy

PERSEO - lignocellulosic ethanol from MSW
ATENEA - lignocellulosic ethanol from citrus waste
IMECAL

BIOMAP
Exergia

The ECN/HVC project for BioSNG
ECN/HVC