

Update on EU Intelligent Energy Initiatives

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Kick-off meeting of BIODIESEL CHAINS project (No. EIE-05-113)
CRES, 27th February 2006, Athens, Greece

- 50% of EU energy needs come for imported products;
- Energy prices on the high side;
- EU energy supply and demand patterns are not in line with Kyoto targets



Key EC energy priorities

1. Increasing **energy efficiency**;
2. Achieving a **properly functioning internal market** for gas and electricity for the benefit of all our citizens;
3. Promoting **renewable energy**;
4. Strengthening **nuclear safety and security**;
5. Security of Europe's energy supplies and further developing **external energy policy relations**;
6. Improving the **links between energy policies and environmental and research policies**.

Legislation in force

Directives for the promotion of energy efficiency and renewable energy sources	Adoption	Transposition
Labelling Directives, incl. Energy star (9)		
Minimum efficiency perf. standards (3)		
Renewable Electricity Directive	Sept. 2001	Oct. 2003
Buildings Directive	Nov. 2002	Jan. 2006
Biofuels Directive	May 2003	Dec. 2004
CHP Directive	Jan. 2004	Feb. 2006
New! Eco-design Directive	July 2005	July 2007
New! Energy Services Directive	Spring 2006 (agreement in Dec. 05)	Spring 2008

NEW!: Framework Directive on Eco-Design Requirements

- **Objective:** to create an integrated framework for the setting of requirements concerning the design of energy using products to improve their overall impact on the environment.
- **Scope:** Any product dependent on energy input to work as intended (with some exceptions e.g. vehicles)
- **The Directive should be followed by implementing measures:**
 - ▶ Addressing a particular product or part or environmental aspect thereof and considering its entire life cycle
 - ▶ Defining eco-design requirements, conformity assessment procedures and implementation dates

NEW!: Energy End-use Efficiency and Energy Services Directive

- **The Directive will require Member States to save at least an additional 1% of their final energy consumption each year for the next 9 years.**
- **=> Member States must adopt targets, impose obligations on their energy suppliers and prepare national Energy Efficiency Action Plans.**
- **Savings will be achieved in both the private and public sectors, using a framework of measures to:**
 - ▶ **expand the use of energy services,**
 - ▶ **improve the market uptake of energy-efficient technology**
 - ▶ **and integrate energy efficiency criteria into public procurement practices.**

PROPOSAL: Directive on the promotion of clean and energy efficient road transport vehicles

- **Adopted by EC in Dec. 2005**
- **Must still be examined by European Council and Parliament**
- **Would set requirements for public bodies to allocate minimum quota of their annual procurements of vehicles to clean and energy efficient vehicles.**
- **Requirement would be limited, in a first step, to vehicles above 3.5 t weight e.g. buses and most utility vehicles.**

Green Paper on Energy Efficiency

- Issued in June 2005
- “20% of EU energy use can be saved in a cost-effective manner”
- To be followed by a concrete Action Plan in the first semester of 2006



New ! Biomass and Biofuels Action Plan

- **Communication adopted in December 2005**
- **Detailed action plan designed to increase the use of energy from forestry, agriculture and waste materials**
- **3 sectors : heating, electricity and transport**
- **Announces more than 20 actions; most of them will be implemented from 2006 onwards. For transport biofuels, includes promotion of “biofuels obligations”, through which suppliers include a minimum proportion of biofuels in the conventional fuel they place on the market**
- **In 2006, a report will be issued on the implementation of the biofuel Directive in MS (i.e. 2010 target of 5.75% set in 2003 for the EU as a whole)**



European Commission

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New ! Communication on the support of electricity from renewable resources

- **Communication adopted in December 2005 (report done in framework of Green Electricity Directive)**
- **Scope: Different support mechanisms used by Member States**
- **Conclusions:**
 - ▶ Majority of the Member States are not giving enough support to green electricity.
 - ▶ Feed-in tariffs used in the majority of Member States, are currently in general cheaper and more effective than so called quota systems
 - ▶ Direct support measures will remain essential in the future to ensure sufficient market penetration of green electricity
 - ▶ A harmonised European support scheme is premature (competition & stability for investors needed).
 - ▶ Member States are recommended to coordinate the existing schemes at European level and urged to remove barriers to the development of green electricity

Other policy papers in preparation

- **Second European Climate Change Programme (ECCP II, launched in October 2005)**
<http://europa.eu.int/comm/environment/climat/eccp.htm>
- **Green Paper on a secure, competitive and sustainable energy policy for Europe (due 1st semester of 2006)**

- 6th Framework Programme for Research, Development and Demonstration (2002-2006)
- **Intelligent Energy Europe Programme (2003-2006)**



What is “Intelligent Energy Europe”?

- **“Intelligent Energy Europe” is the Community support programme to increase renewable energy sources and energy efficiency by overcoming the non-technological barriers (legal, financial, institutional, cultural, social barriers)**
 - ▶ It is NOT funding costs for investments in demonstration nor in large-scale technology applications
 - ▶ It is NOT funding research on technology

4 Main fields

Energy efficiency and rational use of energy, in particular in buildings and industry (**SAVE**)



Promotion of new and renewable energy sources for electricity, heat, and biofuels (**ALTENER**)



Energy aspects of transport, fuel diversification, biofuels and energy efficiency (**STEER**)



Promotion of renewable energy sources and energy efficiency in developing countries (**COOPENER**)



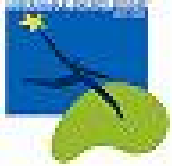
Principles of implementation

- **Grants are the most important means of implementation (85% of the operational budget)**
- **Grants are awarded following Calls for Proposals**
 - ▶ **Dec. 2003: 1st Call (projects started early 2005)**
 - ▶ **Dec. 2004: 2nd Call (projects started early 2006)**
 - ▶ **Oct. 2005: 3rd Call (evaluation in March-April 06)**
 - ▶ **2006: 4th and last Call (except COOPENER)**

Means of communication (1)

- **managenergy**  to support the work of local and regional actors. Includes: Training workshops, online events, web site with case studies, good practice.

www.managenergy.net



- **Sustainable Energy Europe Campaign (2005-2008)** to raise public awareness and promote sustainable energy production and use among individuals and organisations. *www.sustenergy.org*

- **EPBD Platform (Jan. 2006 – mid 2008)** to help assessing and communicating the Buildings' Directive.

Means of communication (2)



Intelligent Energy News



Thematic workshops

Contact database



Intelligent Energy – Europe Website:
http://europa.eu.int/comm/energy/intelligent/index_en.html

IEE posters and brochures



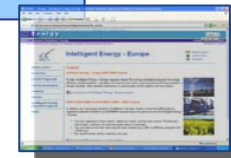
European and National Info Days



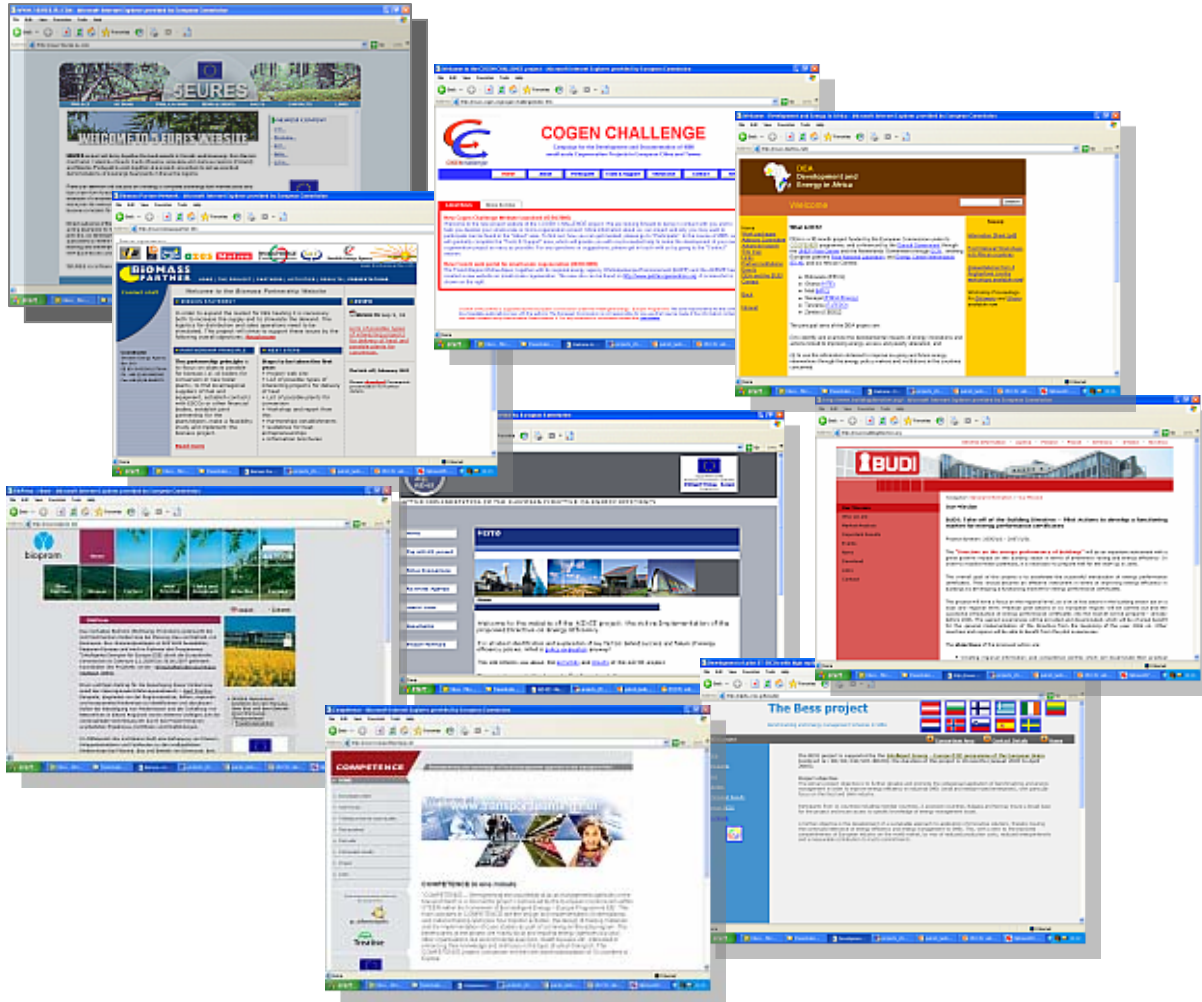
IEE online project database



IEE website



IEE web site includes links to all IEE projects



The future IEE programme (2007-2013)

- Commission proposed enlarged continuation of IEE to be included in « Competitiveness & Innovation Framework Programme (CIP) »
- 3 pillars:
 1. Enterprise & Innovation Programme
 2. Information & Communication Technologies (ICT)
 3. Intelligent Energy – Europe (SAVE, ALTENER, STEER continuation)*
- The way forward:
 - Commission adoption April 2005, 1st reading Council & EP ongoing
 - Adoption of Financial Perspectives 2007-2013 allowed step forward
 - Possible adoption in 1st half of 2006 (if 1st reading successful) – otherwise 2. reading will be engaged in 2. half of 2006

* COOPENER continuation proposed in Thematic Programme for environment and sustainable management of natural resources including energy (« External Action » of the Community)

The IEEA: Your main contact



The IEEA....

- ...implements the IEE Programme
- ...manages the projects and events organised under IEE
- ...disseminates the know-how and best practices produces
- ...fosters exchange and co-ordination between all players involved, and with other Community and national activities
- ...feeds back project results to DG TREN policy makers and helps improve the programme

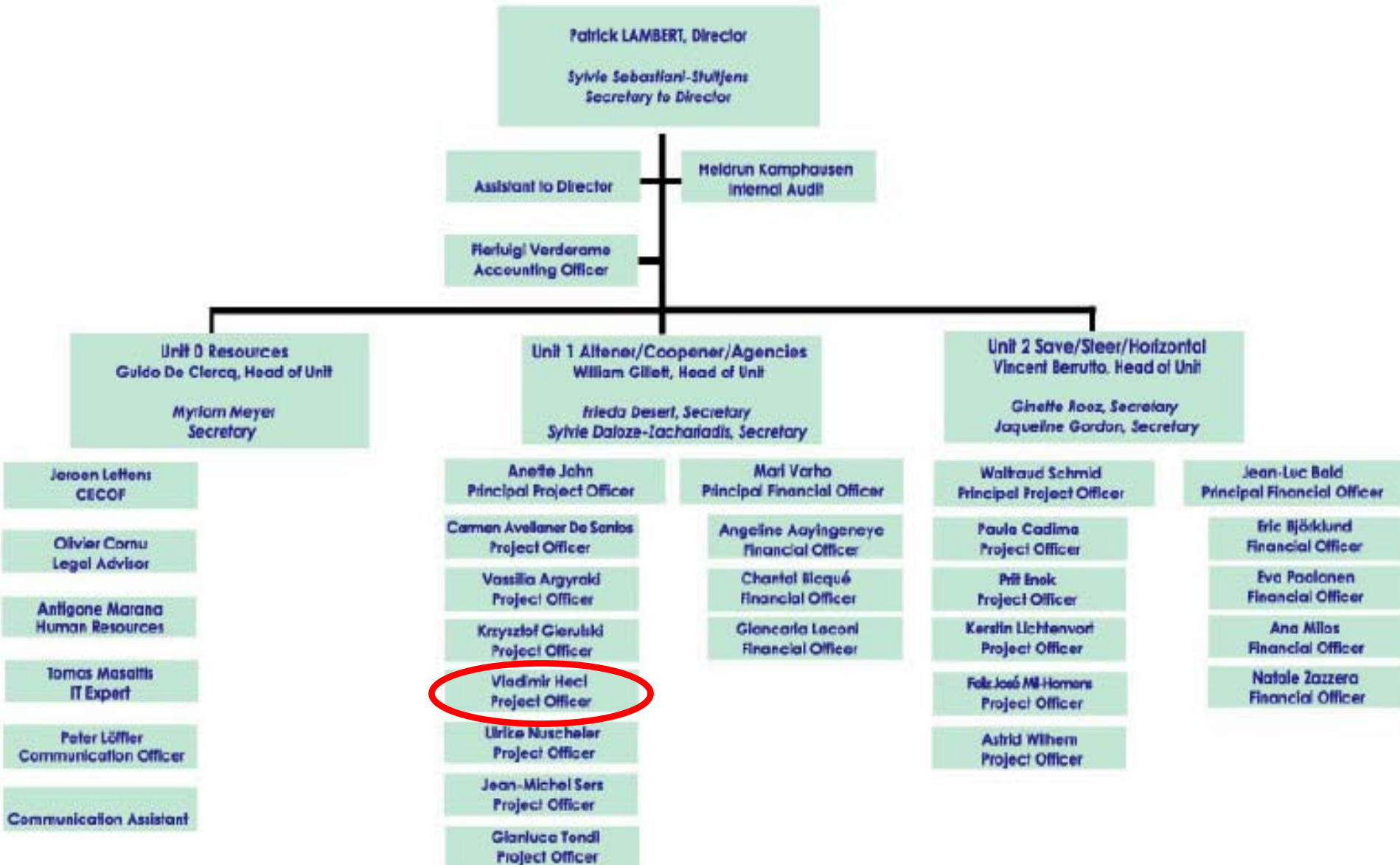
- **2005: Launch (full cruising speed expected for 2006)**
- **The IEEA and DG TREN are working together in tandem**
- **The Agency today: ca. 40 staff from 16 EU countries, including 5 new Member States**



The IEEA office in Rue Belliard 7, Brussels



IEEA – our structure and staff



Thank you for your attention

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