

Intelligent Energy – Europe (IEE) programme

2011 funding priorities

Christof Marx

Project Officer

Executive Agency for Competitiveness and Innovation

The EU intelligent energy agenda – background



> **EU 2020 energy strategy**
Competitive, sustainable and secure energy



> **Global goals need local action**
No change without many small, concrete steps

The EU intelligent energy agenda – Policy background



> **Energy efficiency**
A high priority of the Commission



> **Renewables**
Time for implementing national action plans

Intelligent Energy – Europe in a nutshell



IT'S YOUR CALL



- > **€730 million from 2007-13**
- > **Supports EU renewable energy and energy efficiency policies and helps reach the 2020 targets**
- > **Encourages the uptake of proven intelligent energy solutions**
- > **Is not a technology development programme, unlike FP7**
- > **Works to make Europe more competitive and innovative**

A programme to help convert policy into action



**EU energy
efficiency and
renewables
objectives**



- > **Creating and spreading effective methods and best practice**
- > **Training and education**
- > **Know-how transfer**
- > **Market intelligence**
- > **Inform policy development and implementation**

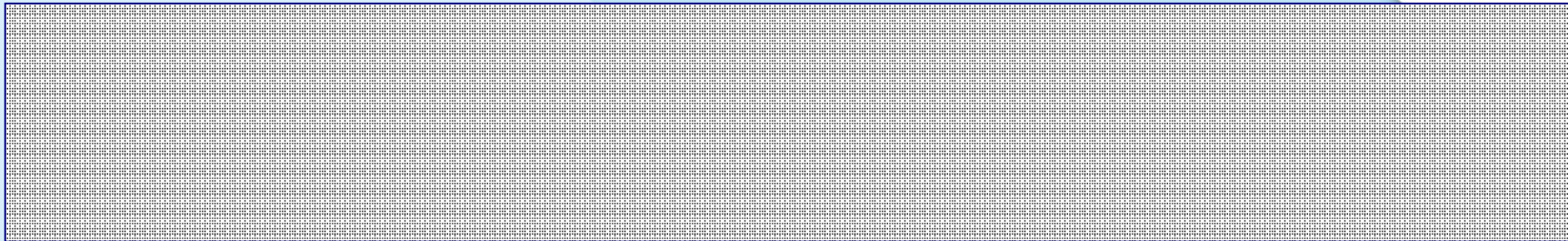


**Real changes on
the ground**

Intelligent Energy – Europe: what's in the box?



How will this year's budget be spent?



- > **€ 30 million**
for the “ELENA” facilities
- > **€ 17 million**
to purchase services (tenders) and support activities
not subject to calls



«Promotion and dissemination project»?



A project which...

- > helps deliver the key EU climate change and energy objectives
- > matches the priorities of the IEE Work Programme 2011
- > involves at least three partners from different countries
- > takes two to maximum three years to deliver
- > is not a “hardware” type investment nor a research & development project!



Where does the IEE programme stand?



**Over 500 IEE-supported projects across Europe,
more than 3,000 participants from 30 countries!**

Energy efficiency



Renewable energy sources



Integrated initiatives



Energy-efficient transport



→ Don't reinvent the wheel!

The 2011 call for proposals



Work
Programme

Call for
proposals

Published:
18 January 2011

**Deadline for
applying:**
12 May 2011

Who can apply for funding?



- > **Any public or private organisation established in the EU, Norway, Iceland, Liechtenstein, and Croatia**
- > **International organisations**
- > **Individuals cannot apply**

Funding areas 2011



Energy efficiency
(SAVE ~€12M)



Energy use in transport (STEER ~€12M)



Renewable energy sources (ALTENER ~€16M)



Integrated initiatives (INTEGRATED ~€27M)

Funding areas 2011



Energy efficiency (SAVE)

- * Energy-efficient products
- * Industrial excellence in energy



Energy use in transport (STEER)



Renewable energy sources (ALTENER)



Integrated initiatives

Energy-efficient products



Actions aimed at:

- > Increasing the market share of **sustainable and energy-efficient products**
- > or fostering **green procurement**
- > or checking compliance with EU legislation (**market surveillance**)



Buy Smart



> Main results achieved so far

- > analysis of the state-of-the-art in green procurement on European and national level
- > 33 labels described on the project website
- > good practices database with 117 green procurement examples
- > 414 consultations, 83 in-house consultations and 32 trainings performed
- > 10 pilot projects finished
- > <http://www.buy-smart.info>



Industrial excellence in energy



Actions aimed at:

- > Reaping savings in **specific branches** (incl. energy-intensive industries)
- > Establishing **cross-sector schemes** (e.g. audit or financing schemes for SMEs; waste heat recovery scheme)



EuPlastVoltage



- > The European plastics converting industry is hugely important:
 - > 50,000 SMEs and 1.6 million employees
 - > Total annual consumption 14 TWh
 - > Only ca. 5% of the target companies in the processing sector have an energy manager
 - > Objective: a signed voluntary agreement on energy efficiency in the EU plastic sector
- > <http://www.euplastvoltage.eu>



Funding areas 2011



Energy efficiency
(SAVE)



Energy use in
transport (STEER)

- * Energy-efficient transport
- * Clean and EE vehicles



Renewable energy
sources (ALTENER)



Integrated
initiatives

Energy-efficient transport



Actions aimed at:

supporting the take up
of **Sustainable Urban
Mobility Plans** or

increasing the
energy efficiency of
freight distribution
in urban areas or

greening
leisure travel



see also: www.mobilityplans.eu
(from 15th March 2011)

Energy-efficient freight transport

- ✓ Local freight networks established in every partner city (Bristol, Goteborg, Ljubljana, Ravenna, Riga)
- ✓ Developed new and expanded restricted access areas
- ✓ Created and extended consolidation centres
- ✓ Implemented new programme of incentives (e.g. wider time windows for clean vehicles)

<http://www.start-project.org/>



Clean & energy-efficient vehicles



Actions aimed at:

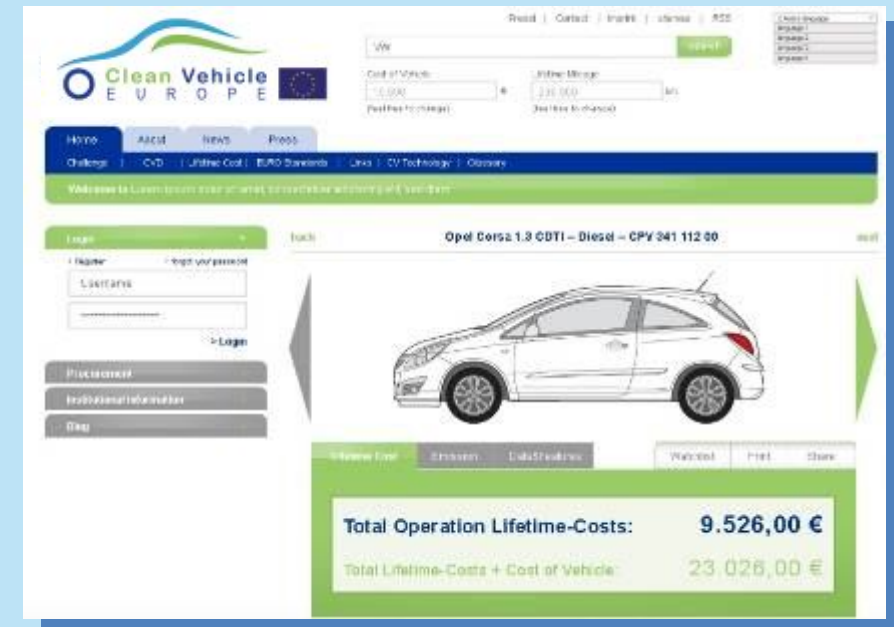
- > assisting fleet operators and authorities with the implementation of the **Clean Vehicle Directive**
- > or addressing specific issues related to the safety or eco-driving of clean and energy efficient vehicles



Clean Vehicle Portal



- > Access to Europe's largest Vehicle Search and Database
 - > find, collect, compare, store and print vehicles
 - > communicate and collaborate with other users in the community section
 - > stay informed about what other linked users are searching for
- > Procurement and institutional information
 - > existing procurement rules for the EU and each European country.
 - > several links to other web-resources.
 - > interactive features for effective joint procurement requirements.



<http://www.cleanvehicle.eu/>

Funding areas 2011



Energy efficiency
(SAVE)



Energy use in
transport (STEER)



Renewable energy
sources (ALTENER)

- * Renewable electricity
- * Heating & cooling
- * Bio-energy



Integrated
initiatives

Renewable electricity



- > **Grid issues:** “Infra-structure Package”, offshore authorisation procedures, electricity storage.
- > **Social acceptance:** analysis, information on impacts of new RES generators and grid extensions.
- > **Simplification of procedures:** support and training for authorising officers, reduce delays.
- > **Strategic initiatives:** analyses, planning, streamlining of market / regulatory frameworks



[“all RES” strategic initiatives eligible under this Key Action]

GP WIND

Reconciling on- and offshore wind energy with environmental objectives and actively involving communities

- Building evidence-based support for the design, planning and implementation of projects which are sensitive to environmental and community concerns
- Increasing the consenting rate for on- and offshore wind projects, and reduce the processing period for applications
- Securing endorsement of project outputs by participating partner administrations, and commitment to adopt relevant good practice



Renewable heating and cooling

- > **Biomass, heat pumps and solar in existing buildings:** motivate public authorities, other building owners
- > **District heating and cooling with RES:** intelligent networks, motivate planners and builders
- > **Strategic initiatives:** support schemes, guarantees of origin, permit procedures, environmental impacts and social acceptance.



CHP goes Green



To **increase the use of RES in cogeneration**, including centralised district heating as well as decentralised cogeneration units and at the installation of RES-based CHP-applications in buildings

Main figures:

- Involvement of 8 targeted cities from 5 EU countries
- Development of model cities/regions for the use of CHP
- Transfer of knowledge and exchanging practical experience to other regions in Europe

Main outputs:

- 8 regional promotion campaigns including the development of 70 feasibilities studies
- About 650 professionals trained on technical, economical and ecological issues of RES-CHP
- 16 one-to-one coaching to other European cities / regions



Bio-energy

- > **Solid biomass:** increase supplies from sustainably managed forests, agricultural residues and wastes
- > **Liquid biofuels:** sustainable supply chains from non land-using biofuels (eg waste cooking oil, residues).
- > **Biogas:** from waste and agricultural residues for heat, CHP, gas grid injection, and/or transport fuel.
- > **Strategic initiatives:** bio-energy policies and plans, with focus on sustainability.



Biogas Regions



- Creation of local networks and partnerships between interested actors
- Training of stakeholders from agriculture, agribusiness and municipalities
- Identification of potential pilot sites, opportunity studies and feasibility studies
- Accompanying and supporting the sites' owners through all steps of authorisation procedure, investment preparation, etc.



**Planning & development of
biogas plants in 7 EU Regions**

Funding areas 2011



Energy efficiency
(SAVE)



Energy use in
transport (STEER)



Renewable energy
sources (ALTENER)



**Integrated
initiatives**

- * EE and RES in buildings
- * Local energy leadership
- * Mobilising local energy investments
- * Building Workforce Initiative

Energy-efficiency and renewables in buildings



Priority on **nearly-zero energy buildings** with actions aimed at:




- > encouraging **integrated** energy design
- > Or publicising **front runners**
- > Or increasing the **conversion of the existing stock** into nearly-zero energy buildings
- > Or helping the **public sector** set the example
- > Or aiming to get **industry** on board

Local energy leadership



INTELLIGENT
ENERGY
EUROPE
FOR A SUSTAINABLE FUTURE



- 
- > **Sustainable energy policies:** capacity building between experienced local authorities and 'learning' local authorities, implementing SEAPs.
 - > **Cooperation between public authorities and energy utilities** sharing of energy data for use in development and implementation of SEAPs.

SUSTAINABLE NOW

- > Building local capacity development for integrated energy management and implementation of local energy plans.
- > Through: non-technical aspects, capacity building, peer exchange and reviews in order to create tangible results.
- > Two Europe-wide circles of Learning and Excellence have been set up.
- > Local government capacity will be improved and a guidance package developed.

**Leading communities,
political and administrative
bodies in energy transition
periods**



www.sustainable-now.eu



Mobilising local energy investments



- > **Technical assistance (TA) for public authorities** on energy efficiency and/or renewable energy projects (identified in their SEAPs), to secure bank loans and/or EU grants (eg from cohesion or structural funds).

Special conditions:

- > Applicants may come from only one MS
- > Applicants must commit to CO₂ reduction targets
- > Applicants must submit technical details and costs of their proposed TA and their investments
- > Investment costs must be \geq 15 times TA costs
- > Min. investment 6M€, within 36 months of signature



Building Workforce Training and Qualification Initiative

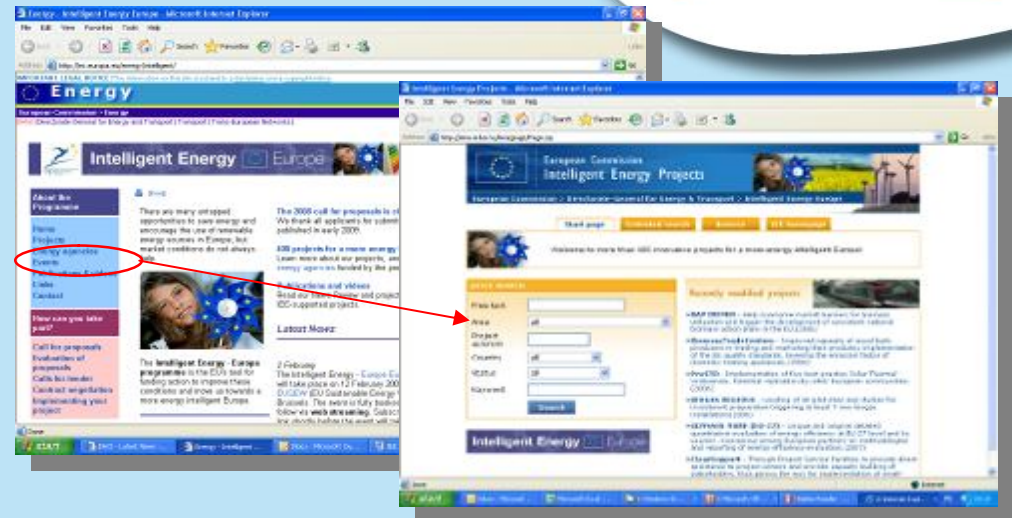


- > **Continuing education:** skills and training on energy efficiency and renewables in buildings for craftsmen, and other on-site workers
- > Pillar 1 (Call 2011): **National qualification platforms and roadmaps:** agreed needs, priorities, measures, accreditation schemes, etc.
One proposal per country.
- > Specific Guide, application forms and deadline (15 June 2011)
- > Pillar 2 (Call 2012): **Qualification schemes.** Proposals will be invited next year, to be based on an established national roadmap.

Learn more about ...

Our projects through the IEE database...

<http://ec.europa.eu/intelligentenergy>



The 2011 priorities through the workshops' presentations and video recording

http://ec.europa.eu/energy/intelligent/events/infodays_en.htm

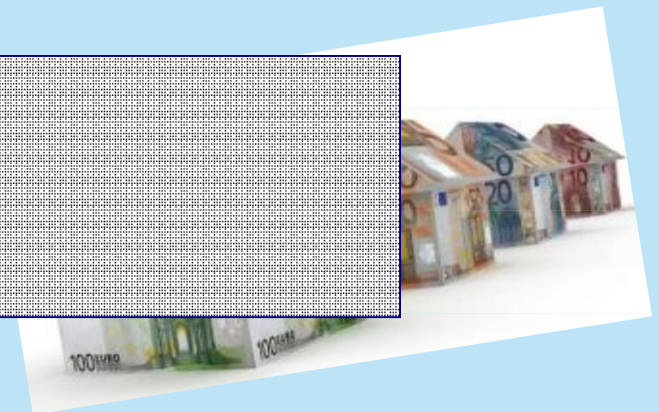
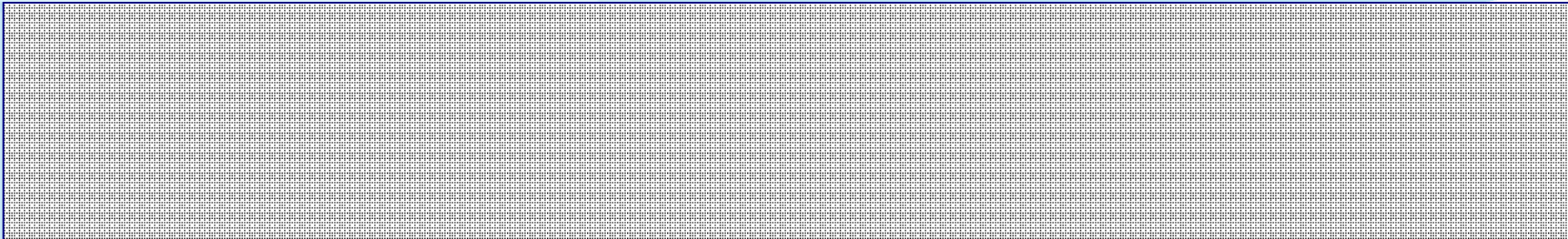


How will this year's budget be spent?



> **€ 67 million**

to support “promotion and dissemination projects”
(up to 75% of the eligible project costs)



> **€ 17 million**

to purchase services (tenders) and support activities
not subject to calls

What is ELENA?



ELENA – European Local ENergy Assistance

- > **Technical Assistance facility** funded by IEE and managed by the European Investment Bank (EIB) (+ KFW and CEB in the future)
- > Target: local / regional authority or other Public Body
- > 90% funding rate (grant) to prepare bankable projects
- > First come, first served basis
- > Each EUR granted must lead to at least 25 EUR of investment
- > More on: <http://www.eib.org/elena>

What is ELENA?



ELENA **(Project Development Services)**

Supports:

- **Feasibility studies**
- **Energy audits**
- **Additional technical staff**
- **Technical studies**
- **Procurement/tendering**
- **Financial structuring**

INVESTMENT PROGRAMMES/PROJECT

- > **EE and RES investment in buildings;**
- > **Urban transport;**
- > **Local energy infrastructure, etc.**



INTELLIGENT
ENERGY
EUROPE

FOR A SUSTAINABLE FUTURE



Thank you for your attention!



executive agency
eaci

for competitiveness & innovation

FOR A SUSTAINABLE FUTURE