



INTELLIGENT ENERGY EUROPE

CALL FOR PROPOSALS 2010

SAVE

Intelligent Energy Europe
Malta National Info Day, 21 April 2010



SAVE – Energy efficiency priorities 2010

- Energy efficiency in buildings
- Consumer behaviour



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Energy efficiency in buildings



IEE CALL 2010

Gordon Sutherland, Timothée Noël & Nathalie Cliquot
Energy-efficiency Unit
Executive Agency for Competitiveness and Innovation (EACI)
European Commission



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Energy efficiency in buildings



■ Priority for actions to improve:

▶ **Operational efficiency** of **non-residential buildings***, including for instance

- Low-or-no-cost measures
- Effective commissioning
- Better operation and maintenance



▶ Energy management in **multi-residential buildings** (co-ownership properties, managed housing stock)

* Proposals should address categories of non-residential buildings and building systems covered by the Energy Performance of Buildings Directive



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For your proposals: Focus on performance

The 2010 priorities reflect the need for **action and measured impact in the short-term**



Essential performance indicators:

- Primary energy savings – CO2 reductions **achieved during the action**
- Number of people **targeted during the action**
- Additional number of people which have been indirectly **impacted during the action**



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For your proposals: Focus on multiplication

- Priorities will be given to actions demonstrating **triggering effects**, with
- Active engagement of **market multipliers**

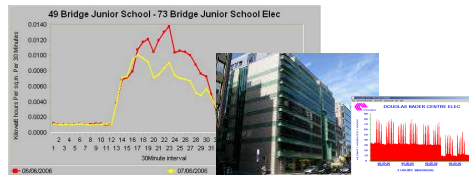


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INTELLIGENT METERING

Knowing what an organisation is consuming at any given time is one of the most effective ways of achieving energy savings

- Monitoring of buildings' energy consumption over the internet on a half hourly basis
- 70 public buildings metered across Europe & 120 training sessions for occupants



- 12-13% reduction in heating
- 6% reduction in electricity consumption



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Consumer behaviour and energy efficiency



IEE Call 2010

Christophe Coudun & Nathalie Cliquot
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Consumer behaviour priorities 2010



Actions targeted to **consumers**:

- Helping them choose the most energy efficient **products** among those covered under the Eco-design Directive (e.g. household appliances, windows, lighting etc.)
- Raising awareness among specific groups of individual consumers on issues covered by Energy Services Directive (e.g. advanced metering and informative billing) or the Energy Performance of Buildings Directive.

E.g. large-scale awareness campaigns, market surveillance, actions publicising "top runners" in product groups



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Consumer behaviour priorities 2010 (2)

- Campaigns **should**:
 - ▶ be performed at large scale
 - ▶ be built on the needs and desires of consumers
 - ▶ include a careful evaluation phase (social marketing approach)
 - ▶ be jointly supported by consumer organisations and environmental NGOs, industry, retailers and competent regulatory authorities, but independent of special interests
- Performance indicators
 - ▶ Primary energy savings / CO₂ reductions **achieved during the action**
 - ▶ Number of consumers targeted during the action
 - ▶ Additional number of consumers which have been indirectly impacted during the action



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IEE projects on EE products



- Wide range of products addressed
 - ▶ residential lighting, office and street lighting, IT servers, boilers, air conditioners, motor systems, pumps, circulators, lifts and escalators, distribution transformers, construction products, etc.
- Projects result in concrete actions
 - ▶ market transformation activities
 - ▶ many brochures, guidelines, training/communication/press kits, articles and web tools are available to increase awareness



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EURO-TOPTEN Plus

<http://www.topten.info>

Find out the most EE products in Europe with a simple click on Euro-Topten websites

Best Products of Europe



- Main results: market stimulation
 - ▶ focus on large-scale buyers
 - ▶ manufacturers convinced of the demand through multinational pressure
- Impacts: 2.7 millions visitors/year



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ALTENER – renewables priorities 2010

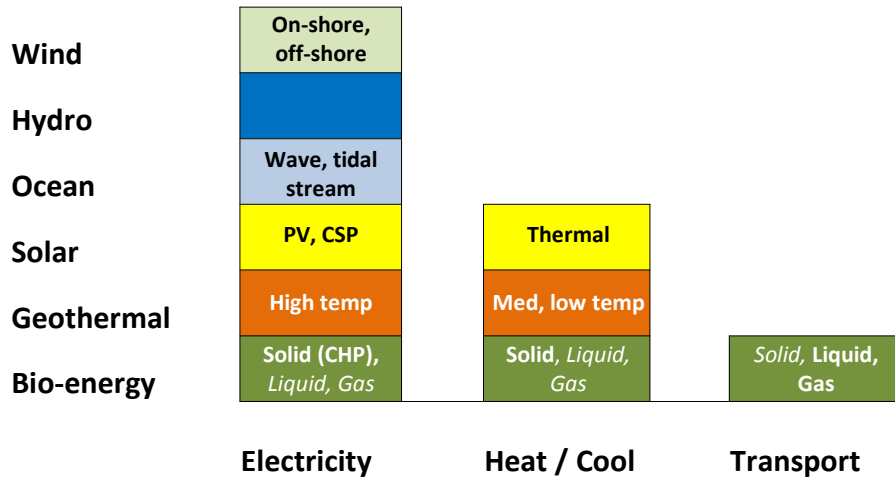
Focus on actions which contribute to the implementation of the new RES Directive.

- **RES electricity**, to increase the share of renewable electricity in Europe's final energy consumption.
- **RES in buildings**, to promote the use of renewable energy systems, including PV, solar heating, biomass, and geothermal in buildings.
- **Bioenergy**, to promote use of sustainable forms of bio-resource in energy markets.



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Renewable energy – supply and demand



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Renewable electricity



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2010 priorities for Renewable electricity (and CHP)



Actions to support integration of renewable electricity (incl. CHP) into the market and grid, in particular by putting forward solutions to:

- **Streamline procedures** for
 - ▶ grid connection, extension, reinforcement; measurement and payment;
 - ▶ construction and planning authorisations
- **Integrate** authorisation and grid connection procedures
- **Address competing stakeholder interests** and concerns, including integrated and long term planning
- **Strategic analyses and monitoring** of policies, markets, costs and benefits of renewable electricity (possibly extended to other renewable energy sectors)



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WINDBARRIERS



Analysis of administrative and grid access barriers affecting wind energy development in the EU27 – A toolkit for policy makers



- Put in place a methodology to determine delays and costs to set up wind energy projects (administrative and grid access procedures)
- Collect quantitative data across EU 27
- Use the data to benchmark and assess progress achieved in different countries
- Reduce lead times with more efficient procedures (e.g. one stop-shop for developers)



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ALTENER RES in Buildings



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2010 priorities for Renewables in buildings



- Accelerate deployment of biomass, geothermal and solar for heating / cooling, and PV electricity **individual RES systems** in energy efficient buildings and **centralised RES** in **district heating / cooling**

- ▶ Promote **new building codes or ordinances**
- ▶ **Capacity building** for local / regional authorities
Stimulate investments in RES for groups of buildings to achieve economies of scale
- ▶ **Targeted information** on support measures, benefits/costs and performance of RES systems

Actions should be led by public authorities or building sector organisations



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PROSTO

Implementation of five best practice Solar Thermal Ordinances (STOs)

Partners: local authorities, technical and research institutes, solar energy association, energy agencies

Target groups: cities, local and regional authorities

Expected results

- Development of optimized STOs
- Pilot implementations of STOs (local show cases) + demonstration of their impacts in five areas: the Region of Lazio and the Cities of Lisbon, Murcia, Stuttgart and Giurgiu
- Dissemination of project outcomes to potential new local authorities
- Over 10 new local authorities start concrete implementation on STO



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Bioenergy**



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Bio-energy (ALTENER)



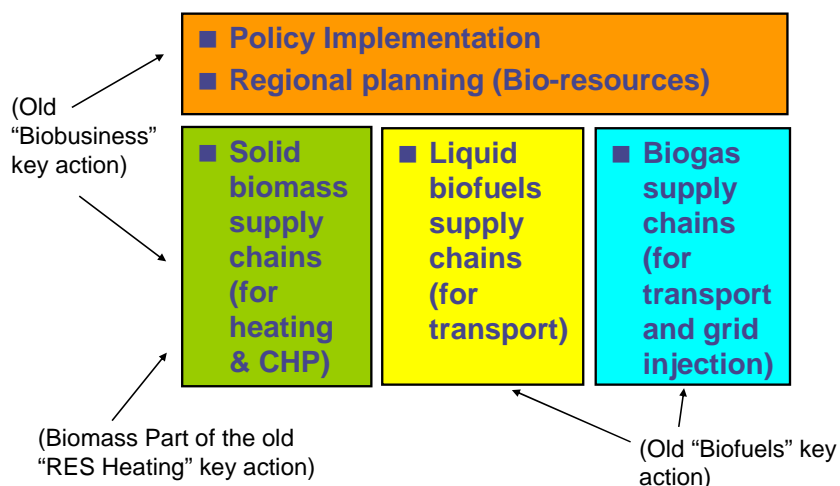
Bring **untapped bio-resources** (solid biomass, biogas and/or liquid biofuels) onto the market

- ▶ Implement **local and regional bio-energy planning**
- ▶ Stimulate investments and business agreements in **sustainable supply chains** for solid biomass, biogas and liquid biofuels
- ▶ **Strategic initiatives** to promote quality, standards and sustainability schemes for bio-energy products
- ▶ Encourage **biogas use as transport fuel**, quality monitoring



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BIOENERGY: links with previous priorities



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Expected impacts of new projects

- Evidence that the project influenced policies, rules or procedures.
- Number of actors applying standards, quality & sustainability schemes; volume of bioenergy involved.
- Additional sustainable biomass, biofuels and biogas put onto the market during and after the action (MWh or Mtoe per year).
- Investment mobilised during and after the action (EUR) and associated leverage effect.



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STEER



STEER – Energy Efficient Transport 1/3



- Promote safe **walking & cycling** by
 - ▶ integrated planning approaches
 - ▶ awareness raising campaigns for sustainable mobility behaviour
 - ▶ **Spicycles**
 - increase cycling's modal share in cities
 - bike-sharing systems set up in several European cities
 - information and awareness campaigns
- Promote auditing & certification of **integrated urban mobility policies and plans**, including EU-wide information exchange, share experiences, best practices.
 - ▶ “new”



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STEER – Energy Efficient Transport 2/3



- **eco driving** for all categories of drivers
- Past project example:
 - ▶ **ECODRIVEN**
 - synchronised European-wide eco driving campaign
 - bring the potential and benefits of eco driving to the attention of passenger car, van, lorry and bus drivers, and policy makers in 9 EU countries.
 - Different approaches by different partners: tyre pressure campaign, fleet driver training, driver instructor training, training for learner drivers



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STEER – Energy Efficient Transport 3/3



■ Improve energy efficiency of **freight distribution** through coordinated management and information schemes for fleet operators, distributors, retailers

▶ Some past projects:

- **START**: improvement of city logistics and urban freight by access restrictions, freight consolidation centers,
- **Interaction**: reduction of energy use in freight transport by reduction of frequency of delivery, standardization of loading units, introduction of cleaner vehicles
- **TRAILBLAZER (under negotiation)**: development of delivery service plans

▶ BUT actions to stimulate modal shift of freight from road to short-sea shipping = MARCO POLO



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Capacity-building on clean transport (STEER)



■ **Mutual learning** of practitioners through staff exchanges

■ Support to academic **teaching** through networking of educational bodies (staff exchanges, joint seminars, development of joint information material)

■ Training for **local / regional agencies** and actions to have them offer **new services** on transport



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INTEGRATED INITIATIVES



INTEGRATED INITIATIVES

- **Local Energy Leadership**
- **Strengthening Capacities for Financing EE and RES in Housing**

Indicative budget: ~ 6.7m €



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Call 2010 : Local energy leadership



- Two priorities, preferably not to be combined in one proposal:
 1. Large-scale networking and capacity building activities by (national or regional) **networks of local authorities**, including the Covenant of Mayors
 2. Capacity building and exchange of experience between **experienced** local authorities and **'learning'** local authorities with:
 - ▶ **Institutionalisation** of sustainable energy policies
 - ▶ **Actual implementation** of sustainable energy action plans in 'learning' bodies



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Call 2010 : Financing EE and RES in housing



- **AIM:** Establish schemes and strengthen capacity in **financial engineering** for funding energy-efficiency and/or small scale renewable energy investments in housing
- **APPROACH:** Develop and implement **sustainable and long-term financing mechanisms** (i.e. revolving funds) to facilitate achievement of the 4% ERDF allocation. This could be facilitated by transfer of best practices, exchanges of staff and other practical technical assistance.
- **WHO SHOULD DO IT?**
 - ▶ **Competent national/regional authorities**
 - ▶ **Structural fund management authorities**
 - ▶ **Financing institutions**



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Thank you for your attention!

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