

# Intelligent Energy - Europe



helping to meet 2020 commitments  
through international cooperation

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## Europeans must work together



- **Security of supply**  
Energy supply must be secure and affordable



- **Climate change**  
The future has to be low-carbon



- **Financial crisis**  
A relaunch of the economy is needed



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## European energy policy responses



20-20-20 energy objectives

Climate and energy package

Second Strategic Energy Review



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## A FIRST REAL ENERGY POLICY FOR EUROPE

### TARGETS BY 2020

- at least 20% less greenhouse gas emissions
- 20% better energy efficiency
- 20% share of renewables in the energy mix
- 10% biofuels in transport fuel

### SOME MEASURES

- 6-year Energy Efficiency Action Plan
- Renewables legislation (Directive adopted)
- EU Strategic Energy Technology Plan



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## Background



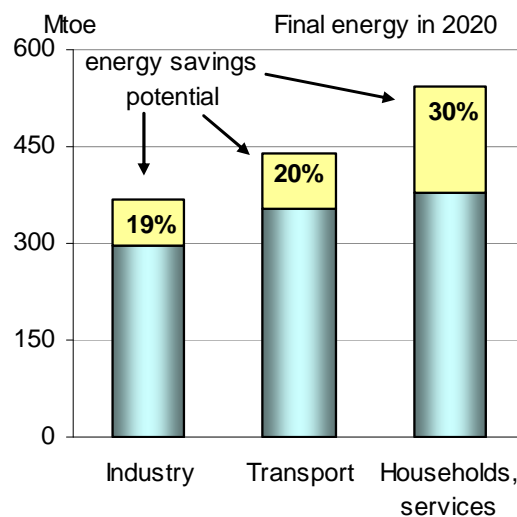
### Action Plan for Energy Efficiency (Oct. 2006)

- To increase energy efficiency by 20% by 2020 (⇔€100 billion/year savings)
- Put forward 75 actions in 6 areas
- IEE focuses on **end-use** energy efficiency priorities



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## Energy savings potential by 2020



Source: 2<sup>nd</sup> Strategic Energy Review (EC Nov. 08)



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## Barriers to overcome



- Lack of information
- Seen as low priority
- Hassle factor, inertia, traditions
- Focus on investment costs
- Insufficient capital
- Fragmented markets, many actors
- Split incentives



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## New Directive for the promotion of renewable energy sources (20-20-20)

- **Mandatory national targets,**
- **National Action Plans** (with sector targets)
  - ▶ share of **renewables in gross final energy consumption**
  - ▶ share of **renewables in transport**
- **New rules** (means of cooperation) relating to
  - ▶ **statistical transfers** between Member States
  - ▶ **joint projects** between Member States and with third countries
  - ▶ **joint support schemes**

- **New requirements** relating to
  - ▶ **administrative procedures** (national, regional, and local)
  - ▶ **information and training**
  - ▶ **guarantees of origin**
  - ▶ **access to and operation of electricity and gas grids**
- **Sustainability criteria** for biofuels and other bio-liquids



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## Priorities / requirements of the new Renewables Directive

- Streamline **authorisation procedures** (single admin' body)
- Improve planning, interconnections and **infrastructure**
- Increase **renewables in buildings** (obligations, certificates, labels)
- Promote **district heating** and cooling with renewables
- Institutionalise **certified training** schemes for installers (2012)

- **On-line Public Transparency Platform** - renewable energy information for citizens
- **Eurostat Regulation** on energy **statistics** (Oct 2008)
- Energy efficiency with renewables to **achieve targets**
- **Local and regional authorities** to set more ambitious targets than national targets, and get involved in reporting on National Action Plans

### **Note : OFF-SHORE WIND COMMUNICATION (Nov 2008)**

Improve strategic planning and cross-border coordination, integrate renewable energy into grid, maximise its environmental benefits



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## What is needed? Support for implementation of the new rules



Put in place new administrative procedures, regulations, codes, plans, obligations, ...

Gathering experience, analysis, and modelling of support schemes, sustainability criteria, Guarantees of Origin, access to grids,

Monitoring progress towards targets and reasons for  $\pm$  deviations from trajectories



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## What is needed? Address new requirements of the Directive



Joint projects, financing, entrepreneurship (SME's)

Access to electricity, gas and heating grids

Product / system standards, certification, labelling

Institutionalised training and certification of installers

Information, best practices, advice, behaviour change



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## Community programmes managed by EACI

CIP



**eco-innovation**  
WHEN BUSINESS MEETS THE ENVIRONMENT



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## A programme to help convert policy into action



## Which programme for which purpose?

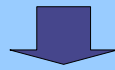




## INTELLIGENT ENERGY - EUROPE



- Develops markets for energy efficiency and renewables
- Supports the uptake of state of the art technologies
- Brings actors together and creates innovation from diversity



A catalyst for innovation and business opportunities



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## Typical IEE projects

### Grants to projects 2009 (~65M€)



- ~ 7-8 partners on average
- 3 year maximum duration
- Typical budget ~ 1,000,000 €
- Supports up to 75% of eligible costs
- No hardware or R&D costs



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## Renewable energy

**200+ PROJECTS**

- Heating and Cooling**: Image of a wood-burning stove.
- Electricity**: Image of wind turbines.
- Small scale applications**: Image of solar panels on a building roof.
- Biofuels**: Image of a person using a vacuum hose in a biofuel production facility.
- CHP / Cogeneration**: Image of a person standing next to a blue CHP unit.
- Local actions**: Image of a town square with a church spire.

## Energy efficiency

**200+ Projects**

- Buildings**: Image of a multi-story apartment building.
- Equipment**: Image of an energy efficiency label for a washing machine.
- Industry**: Image of an industrial factory interior, crossed out with a red X.
- Transport**: Image of a modern tram.
- Education**: Image of a group of children in a classroom.
- Communities**: Image of a town square with buildings.
- Energy Services**: Image of a pink piggy bank.

## Creation of 80 local/regional energy agencies

- Improve local/regional decision-making
- Promote action by householders, SMEs, and public sector
- Create a critical mass of local activity
- Change citizens' behaviour

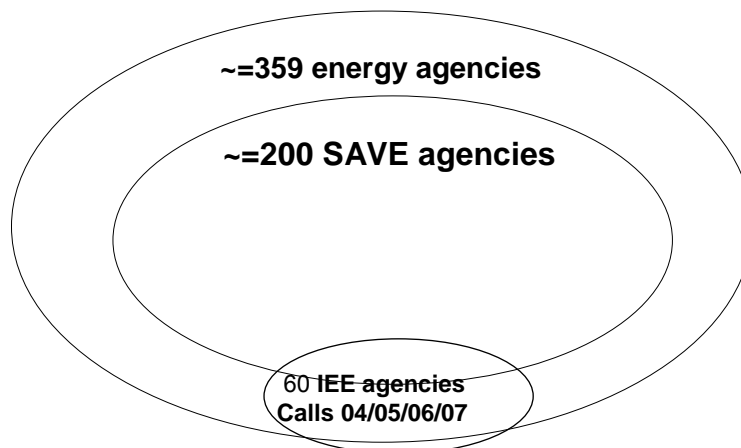


- Public mission to serve local / regional communities - link to Covenant of Mayors
- IEE helps public authorities set up operational structure and work for 3 years



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## The Network of local energy agencies in Europe

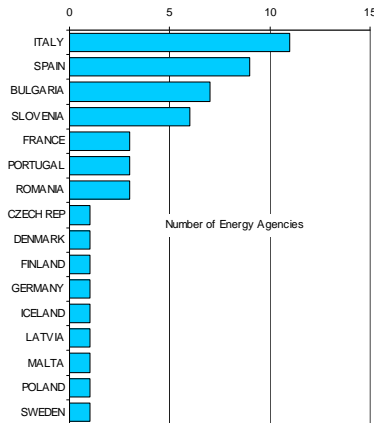


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## 51 Energy agencies set up under IEE (2004 – 2006)



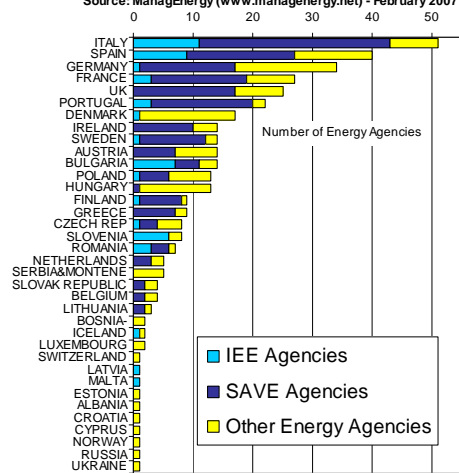
Distribution of IEE Energy Agencies in Europe  
Source: ManagEnergy (www.managenergy.net) - February 2007



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## European Energy Agencies 2007 (Total 359)

Distribution of Energy Agencies in Europe  
Source: ManagEnergy (www.managenergy.net) - February 2007



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## Mandate of an Energy Agency I

- Promotion of energy efficiency in buildings, industry and transport, and the use of renewable energies as major elements of sustainable development
- Establish **independent and autonomous** local structures to fulfil specific local needs
- Offer Added Values :
  - √ CREATE NEW LOCAL JOBS
  - √ PROMOTE CREATION OF SME's (in the energy sector)
  - √ FOSTER COMPETITIVENESS OF SMEs
  - √ **OFFER ENERGY SERVICES TO SOCIETY**
  - √ INDUCE CHANGES OF BEHAVIOUR: Education & awareness



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## Mandate of an Energy Agency II

- **strong commitment & political will required**
- **independent organisations, “not-for-profit”** basis, providing a public service
- good communications and public relations skills needed.
- Good relations and collaboration with **all** local stakeholders needed-**multiple** dependence
- links the promoters of sustainable energy and development initiatives



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## ● The Covenant Cities and Regions commit to:

- Go beyond EU policy objectives → **more than 20% by 2020**
- Justify their commitment with a **Sustainable Energy Action Plan**
- Publicise **periodic reports** to show progress and results
- **Encourage** other cities to join
- **Involve** citizens and other stakeholders



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## ● The European Commission commits to:

- Provide **technical assistance** and **networking support**
- **Monitor** implementation and results
- Provide **political recognition** and **visibility** directly to cities
- Negotiate **contribution of third parties**
- Negotiate **support for smaller cities** with territorial authorities
- Mobilise **finance**



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## ● The Covenant in numbers – Current Status

- **527 Cities** have signed the Covenant  
Among them Latsia and Strovolos from Cyprus
- **1150** registered participants (**404** from cities)  
in the 1<sup>st</sup> Covenant ceremony
- **COMO: Operational**
  - > Website launched: [www.eumayors.eu](http://www.eumayors.eu)
  - > Helpdesk operational: [info@eumayors.eu](mailto:info@eumayors.eu)
- Technical Support by the JRC – **Operational**
- **6 Supporting Structures** operational
- Benchmarks of excellence under negotiation



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## Means of communication II



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

[www.managenergy.net](http://www.managenergy.net)

- **Sustainable Energy Europe Campaign (2009-)** to raise public awareness and promote sustainable energy production and use among individuals and organisations.

[www.sustenergy.org](http://www.sustenergy.org)



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## Means of communication III



- The 10th ManagEnergy Annual Conference is once again planned to coincide with the EU Sustainable Energy Week sometime early 2010. The plenary session of the ManagEnergy Annual Conference will take place in Brussels, early 2010.
- Local action workshop this year during the Open Days, October 2009, organised together with Committee of Regions.



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## Open Days

- The Committee of Regions organises the “Open Days” on **October 2009**.
- the event aims at facilitating cooperation and networking among regions and cities on good practice
- Subject: Regional responses to climate change
- The Intelligent Energy Europe Programme co-organises with them the workshop – ‘*cities and regions working towards a sustainable energy future*’.



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EUROPEAN COMMISSION  
 Directorate-General for Energy and Transport  
 managEnergy

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- Training activities for local actors
- Good practice, benchmarking
- Thematic networks
- European meetings
- Service & facility provider
- Sectoral advice
- Support for the training of Directors of new Energy Agencies!!




Need more details and help ?

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

