



INTELLIGENT
ENERGY
EUROPE
FOR A SUSTAINABLE FUTURE



Intelligent Energy – Europe

support for policy development and implementation

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RE-SHAPING workshop
Brussels, 7 December 2011

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Intelligent Energy Europe programme to convert policy into action



Policies and Directives
(Energy efficiency and Renewables)

- Create favourable market conditions
- **Shape policy development**
- Prepare the ground for investments
- Build capacity and skills
- Inform stakeholders and foster commitment



Actions / changes on the ground

IEE - what's in the box?



IEE projects 730 M€ (2007-2013)



**Over 500 IEE projects across EU
more than 3,000 participants from 30 countries...**

Energy efficiency



Renewable energy sources



Integrated initiatives



Energy-efficient transport



OFF-SHORE GRID (2009 – 2011)



- Industry and experts propose offshore grid designs for 120 GW of offshore wind + marine energy in North and Baltic Seas, based on four scenarios
- Cost estimates for typical generator locations, grid connection requirements, and market behaviours.
- Transfer solutions to Mediterranean basin

Inputs to: “Energy infrastructure priorities for 2020 and beyond – A Blueprint for an integrated European energy network” - COM(2010) 677



www.offshoregrid.eu/

Coordinator: 3E (BE)

Partners: DENA and Oldenburg Uni (DE), NTUA (GR), ECBREC (PO), Senergy (UK), EWEA

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GP WIND (2010 – 2012)



Governments and project developers work together to reduce costs of applications and delays for approving on- and off-shore wind projects

- Develop good practice procedures
- Actively involve local communities
- Address environmental concerns
- Secure commitment by participating administrations to adopt the good practices

<http://www.project-gpwind.eu/>



Coordinator: Scottish Government (UK)

Partners: GR, IE, IT, MT, NO, ES)

SEPEMO Build (2009 – 2012)



Heat Pumps - certification of installations and collection of reliable data on seasonal performance

Support to RES Directive (Annex VII), EPBD, Eco-Design, and EuP Directives

All types of heat pump (air, water, ground) in buildings

- Methodology for field measurement of heat pump systems and calculation of Seasonal Performance Factor (SPF)
- New field measurements on heat pumps
- Guidelines for quality assurance and certification of systems
- Guidelines for accreditation of installers
- Information and dissemination



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

Coordinator: SP (SE)

Partners: Arsenal (AT), EHPA (BE), CSTB (FR), EDF (FR), FIZ 9DE), GtV (DE), CRES (GR), NL Agency

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RES-H Policy (2008 – 2011)



Policy development for increasing market penetration of RES Heating and Cooling in EU

Expected results:

- > Focus on (AT, GR, LT, NL, PL, UK)
- > Assist MS governments in setting RES H/C targets
- > Recommendations for development of support policies
- > Options to coordinate or even gradually harmonise national RES H/C policies

RES-H
POLICY

<http://www.res-h-policy.eu/>

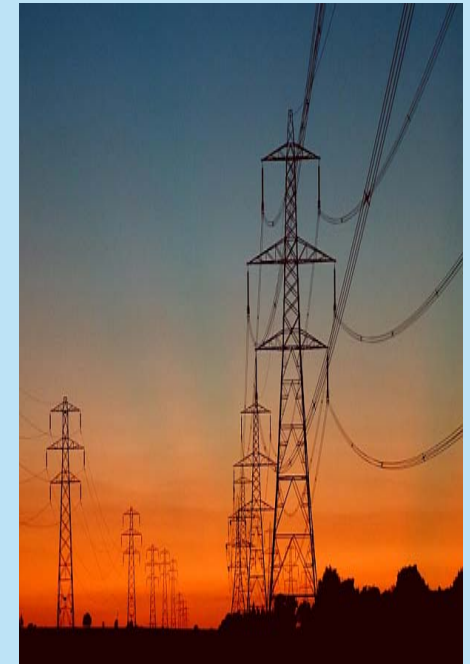
Coordinator: Oeko-Institut e.V. (DE)

Partners: ESV (AT), FhS (DE), CRES (GR, LEI 9LI), ECN (NL), KAPE 9PO), Lund Uni (SE), Uni Exet (UK).

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Reliable Disclosure Systems – for implementing RES Directive, Cogeneration Directive and Internal Energy Market Directive

- **best practice recommendations for implementing Guarantees of Origin (GO) and tracking procedures required for electricity disclosure**
- **identifying potentials for improvements in current tracking systems and cooperation across borders**
- **Helping responsible bodies to exchange experience in implementing GOs and promoting reliable disclosure**



www.reliable-disclosure.org

RES4LESS

(2011 – 2012)



- > “Valleys of RES opportunity” - potential for surplus RES, how much, where, when and at what cost ?
- > Analysis of cooperation mechanisms using case studies
- > Roadmap for cost effective deployment of RES (2020 to 2030), comparing *cross border cooperation* with fragmented approach per MS

Cooperation Mechanisms - more RES with lower costs ?

Target groups: policy makers, regulators, TSOs, project developers, private investors, financial Institutions



www.res4less.eu

Maritime spatial planning for off-shore electricity infrastructures - integrated with other EU maritime policies

North Sea, Baltic Sea, Atlantic coast and Mediterranean

- Policy recommendations - removing obstacles to deployment of offshore power generation and grid infrastructure
- Integrated approach to implementation of RES Directive, reducing conflicts between sectors with maritime interests

→ *Target groups:*

national and regional authorities, planners, renewable energy project developers, transmission system operators, regulators, EU policy makers



www.seanergy2020.eu

REPAP2020 (2009 – 2012)



- > Advice to writers of National RE Action Plans (NREAP's) for the new RES Directive
- > Networking of RES industries and parliamentarians
- > Sharing of experience and feedback **between industry, civil servants, parliamentarians and others** - on good policy practice, successful legislation, market instruments, and other activities related to the NREAP's

Renewable Energy Action Plans – industry, EU and national policy makers discuss best practice policies

<http://www.repap2020.eu/>

Coordinator: EREC (BE)

Partners: EUFORES, FhS, EEG, Kuhbier, RES associations (BE, FR, DE, IT, PO, PT, SE, UK)

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Concerted Action on RES Directive

<http://www.ca-res.eu>



National officials responsible for implementing RES Directive share experiences and best practices



10 Working Groups

- 2020 TARGETS and CO-OP MECHANISMS
- AUTHORISATION PROCEDURES
- TRAINING and INFORMATION
- ELECTRICITY and GAS GRIDS
- BIO-ENERGY

- 30 Member States (with EC) work on **how to implement RES Directive**
- **Confidential forum** for Member States to exchange information
- Focus on issues where **coordination** and/or **harmonisation** would be helpful
- 2 meetings pa (197 participants at 3rd meeting in Madrid Nov 2011) Next meeting in May 2012

“Build up Skills” 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 project per country.
- Pillar 2 (Call 2012): **Qualification schemes.** Proposals will be invited to be based on an established national roadmap.

Mobilising Local Energy Investment (MLEI)



- > **Project development assistance** for public authorities to prepare, mobilise and launch investments in EE and RES
- > min. €6 million investments
- > min TA of €400.000 (supported at 75%)
- > min leverage factor 15
- > 1st call in 2011, next call early 2012
- > complementary to ELENA (EIB, KfW, CEB, EBRD)
- > managed by EACI

CONCLUSIONS



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Next IEE Call for proposals - January 2012



EU Sustainable Energy Week



European Union
Sustainable Energy Week

18-22 June 2012 

- > 18-22 June 2012
- > Take part and organise energy days in your city/region!
- > Find out more on www.eusew.eu



Need more information ?



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

