

INTELLIGENT ENERGY EUROPE

Applying for funding: where to focus?

Part 2 : Renewables and Integrated initiatives

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Funding areas 2012

Energy efficiency (SAVE)

Energy use in transport (STEER)

Renewable energy sources (ALTENER)

Integrated initiatives

1. Renewable electricity

2. Bio-energy

Renewable electricity

Actions aimed at:

- > **grid issues**: policies, regulations, incentive schemes for integration of large volumes of RES-e, and best practices for small scale distributed RES generators
- > **speeding up and streamlining permitting** procedures and enhancing **public acceptance** (grids & generators)
- > **strategic initiatives**: analyses, planning, monitoring market frameworks (eg: more effective support schemes and market mechanisms avoiding excessive costs, integrated strategies for offshore wind)

*[*all RES incl. elect* strategic initiatives eligible under this Key Action]*

I. IEE RES-E projects

Overview

Total projects	56
Ongoing	22
Closed	34

WINDSKILL
RES COMPASS
SHERPA
CHOICE
SMART
WAVERLAMI
SOWFIA
SHP Streammap
GEOLEEC
SI Ocean

CLEAN-E
E-TRACK I
E-TRACK II
RES-E REGIONS
FUTURES-E
OPTRES
REALISE-FORUM
RES2020
REPAP

PV-NMS-NET
EUROOBSERVER I
EUROOBSERVER II
RESHAPING
RE-DISS
RESALESS
beyond 2020
Keep-on-track!
BETTER

Sectorial actions (technology specific)

Admin. barriers

Grid / wind / PV / storage

Support schemes / Targets

SUPPORT-ERS
WINDBARRIERS
INTERPARES
PV LEGAL
GP WIND
REScoop 20-20-20
RESTOR Hydro

DG GRID
ELEP
GREENNET (EU27)
GREENNET INCENTIVE
WINEUR
IMPROGRES
RESPOND
SMARTA
MASSIG
STORIES

WINDFACTS
TRADEWIND
WINDSPEED
OFFSHORE GRID
SEANERGY 2020
STORE
PV Parity
PV Grid
GridTech
RESERVICES

In bold → ongoing projects
In red → under negotiation

IEE projects database: <http://www.eaci-projects.eu/iee/page/Page.jsp>

I. Projects under negotiation

(following 2011 Call)

- ❑ **RESERVICES** integration of RE in European power system, by developing techno-economic guidance on provision of ancillary services by wind and solar PV plants.
- ❑ **GridTech** integrated impact assessment of the implementation of new technologies (RES-E generation, bulk storage, ...) into European electricity system, aiming to exploit potential RES-E generation with lowest possible cost up to 2020 and beyond.
- ❑ **PV GRID** overcoming barriers to large-scale integration of PV electricity into the distribution grid
- ❑ **BETTER** assess (through case studies, stakeholders involvement and integrated analysis) to what extent cooperation with third countries can help Europe achieve RES targets in 2020 and beyond.

I. Projects under negotiation


(following 2011 Call)

- ❑ **RESTOR Hydro** identify the most relevant SHP sites suitable for refurbishment and develop a market driven model for regional cooperatives with a community shares ownership business plan
- ❑ **REScoop 20-20-20** contribute to increasing social acceptance of new RES installations based on the proven model of local cooperative citizen involvement.
- ❑ **SI Ocean** would produce an up-dated 2050 roadmap for the ocean energy sector
- ❑ **Keep-on-track!** to provide up-to-date market data & policy recommendations alongside the trajectory outlined in the RES Directive, thereby ensuring that Europe stays on track for reaching its 2020 objectives.

Bio-energy

Actions aimed at:

- > **Strategic initiatives:** bio-energy strategies for 2020 and beyond (sustainability, land use change, etc)
- > **Solid biomass:** increase supplies from sustainably managed forests, agricultural residues and wastes
- > **Biogas:** production from wastes (for CHP, grid injection, and/or transport fuel)



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Strategic Initiatives projects

BAP Driver Assessment of biomass strategies and policy frameworks, exchange ideas at national policy level, transfer knowledge and build capacities on biomass

Policy support + BioGrace II (under negotiation)

Regional planning

Boosting bioenergy **BIOMASS FUTURES**

RuralE-Evolution **ASTWOOD Project** **bioregions.eu** **MAKE IT BE** **Bio business** **BEN** **BIOENERGIS**

NB: these projects were submitted under previous calls, and do not necessarily correspond to this year's priority

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Solid Biomass projects

BIOMASS TRADE CENTRES Creation of Biomass Logistic & Trade Centres and improved professional approach of wood fuel producers

EUBIONET3 Boosting sustainable and transparent international biomass fuel trade

Woodheat Solutions **bioenergy** **AFO** **FOREST** **EUBIONET2** **mixBioPella** **BIO-HEAT** **pellets@las** **pellets@las** **REGGIE+** **MOFRER** **bioprom** **ENEROP**

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Biogas projects

BIOGASIN Training of authorising bodies, financial institutions and biogas developers in Central and Eastern Europe

BIOGAS Support to farmers in auditing biogas potential in their farms and start first steps in plant construction; implement pro-biogas policy frameworks

URBAN BIOGAS Biogas production from municipal organic waste in five cities

GREEN GAS GRIDS + BiogasHeat, SustainGas (under negotiation)

PROBIOGAS **GASHIGHWAY** **BiG>East** **REDUBAR** **BIO GAS**

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Funding areas 2012

- Energy efficiency (SAVE)**
- Energy use in transport (STEER)**
- Renewable energy sources (ALTENER)**
- Integrated initiatives**

1. Energy efficient public spending
2. Local energy leadership
3. Mobilising local energy investments
4. EE and RES in buildings
- (5. Build Up Skills)

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Energy-efficient public spending




Actions aimed at:

- > supporting and building capacity to help **public procurers** at national and local level apply **green public procurement** criteria for energy-related products (incl. vehicles)
- involving authorities responsible for procurement (e.g. central purchasing organisations) and developing **high-leverage schemes**

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Clean Vehicle Portal

<http://www.cleanvehicle.eu>

- > Supports the implementation of the Directive on the promotion of clean and EE road transport vehicles
- > Main target groups:
 - > Public authorities & public transport operators
 - > Fleet owners and operators (public & private)
- > Platform for information and action
 - > Database of vehicles
 - > Support of joint procurement

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Local energy leadership




Actions aimed at:

- > Good practice models for **multi-level governance** (foster collaboration between local, regional and national public authorities)
- > Capacity building for national and/or regional **town planning associations**

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Priority 1 - Multi-level governance

Actions fostering an **effective and concerted collaboration** between public authorities on the local and regional and/or national level.



Targeted actors:

- > Public authorities

Expected outcomes:

- > Transferable model of collaboration between local authorities and their regions
- > Demonstration of structures and processes for effective long-term collaboration
- > Coherent and co-ordinated sustainable energy planning (including financing strategy) at regional level building upon local SEAPs

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Priority 2 – Capacity building for town planning associations

Facilitating **exchange of experiences and competence building** amongst national/regional town planning associations to demonstrate the **integration of sustainable energy aspects** into **spatial planning strategies** at local and regional level



Targeted actors:

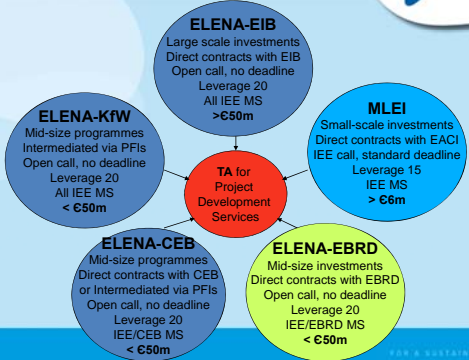
- > National/Regional Town Planning Associations
- > Public authorities
- > Energy Agencies
- > Training institutes

Expected outcomes:

- > Integration of sustainable energy aspects into spatial planning strategies
- > Good practice examples of integrated spatial planning strategies

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IEE funded Project Development Assistance for public authorities



- ELENA-EIB**: Large scale investments. Direct contracts with EIB. Open call, no deadline. Leverage 20. All IEE MS >€50m
- ELENA-KfW**: Mid-size programmes. Intermediated via PFIs. Open call, no deadline. Leverage 20. All IEE MS < €50m
- ELENA-CEB**: Mid-size programmes. Direct contracts with CEB or Intermediated via PFIs. Open call, no deadline. Leverage 20. IEE/CEB MS < €50m
- ELENA-EBRD**: Mid-size investments. Direct contracts with EBRD. Open call, no deadline. Leverage 20. IEE/EBRD MS < €50m
- MLEI**: Small-scale investments. Direct contracts with EACI. IEE call, standard deadline. Leverage 15. IEE MS > €6m
- TA for Project Development Services**: Central hub for project development assistance.

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Mobilising local energy investments




- Project development assistance for public authorities** on energy efficiency and/or renewable energy projects identified in SEAPs or equivalent
 - > Applicants from 1 MS; Coordinator a public authority / body
 - > Leverage factor: >15
 - > Evidence of launch of investment after max 36 months
 - > Priority - high organisational innovation & replication potential
 - > **Specific criteria, application forms and deadlines**
- Replication of successful innovative financing solutions** implemented by public authorities

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MLEI - Sectors covered

- > Refurbishment of buildings
(New buildings are not included)
- > Renewable energy sources in buildings (PV, solar heating/cooling, bio-heating/cooling, geothermal heating/cooling, and heat pumps)
- > District heating/cooling
- > Energy efficient street-lighting
- > Clean urban transport

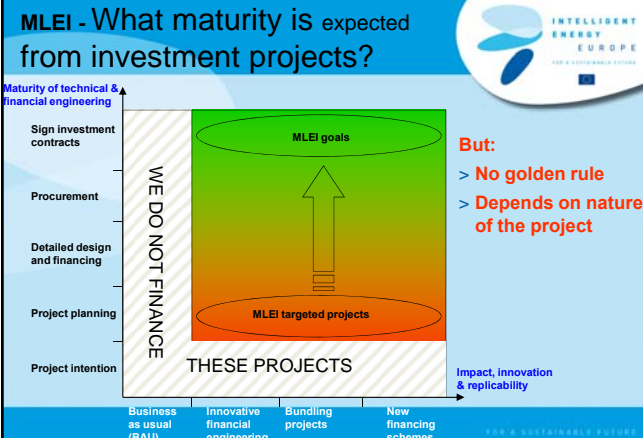


MLEI - what makes a good proposal?

- > **Ambitious and credible investments** leading to concrete energy savings and GHG emission reductions
- > **Innovation:**
 - > In the organisation of the PDA, e.g. projects aiming to bundle small investments in order to make them bankable
 - > In the proposed financial engineering, e.g. proposals using investment funds, ESCO's, Pay as You Save schemes...
- > Demonstrate that final beneficiaries of PDA (if not in consortium) will launch investments resulting from PDA (**risk management**)
- > High **replication potential** across Europe
- > **Capacity building** for further implementation of the policies



MLEI - What maturity is expected from investment projects?



Maturity of technical & financial engineering

Sign investment contracts

Procurement

Detailed design and financing

Project planning

Project intention

WE DO NOT FINANCE

MLEI goals

MLEI targeted projects

THESE PROJECTS

But:

- > No golden rule
- > Depends on nature of the project


Impact, Innovation & replicability

Business as usual (BAU)

Innovative financial engineering

Bundling projects

New financing schemes




Priority 2 – MLEI - Replication

MLEI - **Replication** across the EU of **successful innovative financing solutions** for sustainable energy projects which have been implemented by leading public authorities.


Actions should

- > **catalyse and accelerate the uptake** of innovative financing solutions by public authorities
- > **document and transfer innovative financing processes and methods** used by leading public authorities to other EU public authorities together with the **necessary practical support materials** in the appropriate languages
- > lead to **measurable** replication and uptake

**** Criteria & Guide & Application form same as standard IEE Call**




Energy-efficiency and renewables in buildings



Actions aimed at:

- > Energy Performance Certification as a driver for **step-by-step renovation**
- > Transforming the **existing** building stock into **nearly zero-energy** buildings
- > Improving **quality and compliance** in construction



EPC as a driver for step-by-step renovations

Priority No. 1

- AIM: increase demand on the market for step-by-step renovations
- APPROACH: widespread use of **Energy Performance Certification** as a driver for on-going renovation. e.g.
 - actions aiming to resolve the owner-tenant dilemma
 - supporting development of financial mechanisms
 - large-scale agreements and commitments amongst market actors
 - bringing the market together with industry to provide one-stop shop solutions




24




EPC as a driver for step-by-step renovations

Priority No. 1



- WHO SHOULD BE INVOLVED?
 - EPC providers
 - Large property owners, associations of owners, etc
 - Local or regional authorities
 - Energy agencies
 - Finance providers
 - Industry
- SOME OF TODAY'S CHALLENGES:
 - Funding
 - Lack of understanding of EPCs
 - Poor development of long-term strategy in energy refurbishment




25


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NZEB: transforming the building stock

Priority No. 2



- AIM: accelerate the rate of refurbishment of existing buildings into Nearly Zero Energy Buildings
- APPROACH:
 - support to public sector on achieving 3% renovation rate
 - support to private sector on increasing renovation rate
 - actions aiming to resolve the owner-tenant dilemma
 - bringing together industry elements to provide packaged solutions
 - promotion of front-runners



26

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NZEB: transforming the building stock

Priority No. 2



- WHO SHOULD BE INVOLVED?
 - Municipalities and regional authorities
 - Housing organisations
 - Home owner or consumer associations
 - Developers
 - Finance providers
 - Industry
- SOME OF TODAY'S CHALLENGES:
 - Front runner nearly zero-energy buildings exist, but the market lacks practical experience and familiarity
 - Consumer confidence and understanding needs to be improved
 - The wrong approach can lock future savings
 - Funding




27



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Quality and compliance in construction

Priority No. 3



- AIM: increase quality in construction and compliance with building codes
- APPROACH:
 - Assessment of level of compliance with building codes
 - Assessment of performance of buildings as designed and as built
 - Quality of EPCs
 - Quality of certification schemes
 - Evaluation of the effects on the real estate market





28


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Quality and compliance in construction

Priority No. 3




- WHO SHOULD BE INVOLVED?
 - National, regional and local administrations, building institutes,...
 - Financial institutions
 - Non-governmental organisations
 - Associations, etc.
- SOME OF TODAY'S CHALLENGES:
 - Difficulties on obtaining information
 - Establishing what should be looked at
 - Responsibilities in performance
 - Penalties / enforcement






29

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Existing resources



- Latest market studies
- New concepts being used in daily practice
- Products and services from the energy efficiency and renewable energy industry
- Flourishing markets in some countries
- Nationally supported pilot projects
- Previous and ongoing Intelligent Energy – Europe projects <http://ec.europa.eu/energy/intelligent/>
- Other EU Programmes, such as INTERREG and CONCERTO
- BUILD UP – the European portal for energy solutions in buildings www.buildup.eu

30

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BUILD UP Skills Initiative



Actions aimed at:

- > **Establishing national qualification platforms and roadmaps (Pillar I, close 9 Feb 2012):** only for countries not covered under Call 2011
- > **Setting up or upgrading qualification schemes (Pillar II, close 30 April 2013):** proposals have to be based on established national roadmap.



> specific criteria, application forms and deadlines

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EU Sustainable Energy Week



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



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ManagEnergy: Info' for local actors, partner search

IEE website as source of information



- IEE News
- Calls information
- Project database
- Call for evaluators
- Information on how to implement a project
- Contacts & help



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

34