

Mercè Griera i Fisa ICT for Sustainable Growth European Commission Information Society and Media Directorate-General





Central power plant Che Foel coels Offices Microturbines Industrial plants Virtual power plant.

Outline

Policy Setting



Support for Research: The 7th Framework
 Programme – Theme 3 (ICT)



Energy-efficient buildings PPP Context

- What: part of the Recovery Plan, to boost the construction sector.
- Aims: Support RTD on new green technologies and materials and advanced energy efficient systems and services - this, with a view to radically reducing energy consumption and CO2 emissions by buildings.

Funding:

 0.5 B€ for research; Joint & Co-ordinated calls between four relevant FP7 Themes: ENERGY/ENVIRONMENT/MNP/ICT





ICT for energy efficient buildings PPP The 4 years strategy

call 2010

Buildings

5 STREPS

Call 2011

Buildings and Surrounding spaces

7 STREPS

Call 2013

Extended urban/rural areas?

Smart cities?

Call 2012

Neighbourhoods





The Green Digital Charter

- An initiative of Manchester City, Eurocities and the Commission launched in November 2009
- The signatory Mayors commit to
 - ➤ Deploy 5 large scale projects before 2015
 - ➤ Decrease ICT direct carbon footprint by 30% by 2010
 - ➤ Create partnerships on ICT and energy consuming sectors by 2011
- Signatories: Amsterdam, Birmingham, Bologna, Bristol, Genoa, Ghent, The Hague, Helsinki, Lisbon, Malaga, Manchester, Murcia, Nantes, Nice, Reykjavik, Rijeka, Tallinn, Stockholm, Vienna and Zaragoza.





The Green Digital Charter (2)

Aims at:

- Reducing own ICT footprint (notably data centers)
- Increase the use of renewables
- Improve measurability, transparency ad visibility emissions and energy use
- Improve transport and urban mobility
- Deploy smartgrids with particular attentions to microgrids and virtual powerplants

http://ec.europa.eu/information_society/events/ict4ee/2010/charter/index_e n.htm

In the context of the Covenant of Mayors

http://www.eumayors.eu/





Target Outcomes

Shall

- Addressing the dynamics of energy supply and demand in neighbourhoods and extended urban/rural communities
- Management and control systems
- ➤ Decision support systems
- Beyond buildings
- Integration of renewables
- Connection to the electricity grid





Target outcomes

Technical Research

SHALL

Appropriate business models

How to split incentives

How to engage users

How to commit public authorities

Target Outcomes

MAY

Interoperation with other ICT systems alerady deployed

e.g Traffic management, GIS





Target outcomes

SHALL

A substantial validation Phase

- > Record evidence of benefits
- > Total cost of operation
- Scalability potential
- User benefits
- Conosrtia MUST be compact





Expected Impact

- Contribution to the opening of a market for ICTbased district/Community energy management systems
- Establishment of a collaboration framework between the ICT sector, the buildings and construction sector and the energy sector
- Quantifiable and significant reduction of energy conception and CO2 emissions advised through ICT.



- Funding schemes: STREP
- Indicative budget distribution:
 - STREP: EUR 30 million
- > Call: FP7-I2012-NMP-ENV-ENERGY-ICT-EeB
- Date of publication: July 2011
- Call deadline: 01/12/2011





Information Days for PPP



Source: RTD

- •11-12 July 2011 Brussels
- >Green cars
- > Factory of the future
- > Energy-efficient buildings

http://ec.europa.eu/research/ind ustrial_technologies/energyefficient-buildings_en.html



Thank you for your attention!

Merce.Griera-i-Fisa@ec.europa.eu

Disclaimer: the opinions in this presentation are those of the author and do not commit in any way the **European Commission**



