
WORK PROGRAMME 2012

COOPERATION

THEME 5

ENERGY

Indicative budget for the Energy Theme of the 2012 work programme

Call/ activity	DG RTD EUR million	DG ENER EUR million
FP7-ENERGY-2012-1	136,00	
FP7-ENERGY-2012-2		81,00
FP7-ENERGY-SMARTCITIES-2012		40,00
FP7-ERANET-2012-RTD	17,00	
FP7-2012-NMP-ENV-ENERGY-ICT-EeB		35,00
FP7-KBBE-2012-6	5,00	
General Activities (see Annex 4)	1,82	2,53
Total Other actions	4,38	2,43
Estimated total budget allocation	164,20	160,96

1. Renewable Energy Generation:

- Photovoltaics:

- Reliable, cost-effective, highly performing PV systems (1)
- Demonstration of smart multifunctional PV modules (2)

- Wind:

- Innovative wind conversion systems (10-20MW) for offshore applications (1)
- Demonstration of innovative designs to reduce fatigue loads and improve reliability of multi-MW turbines (2)

1. Renewable Energy Generation (continued):

- Concentrated Solar Power:
 - Research, development and testing of solar dish systems (1)
 - Hybridisation of CSP with other energy sources (1)
- Ocean Energy:
 - Demonstration of first ocean energy farms (2)
- Cross-cutting Issues:
 - Power generation in the low temperature range (1)

2. Renewable Fuel Production:

- Second Generation Fuel from Biomass:
 - Biofuels from microalgae or macroalgae (1)
 - Development and testing of advanced sustainable bio-based fuels for air transport (1)
 - Pre-commercial industrial scale demonstration plant on lignocellulosic ethanol (2)
- Cross-cutting Issues:
 - Development of new or improved logistics for lignocellulosic biomass harvest, storage and transport (1)

3. Renewables for Heating and Cooling:

- Low/Medium Temperature Solar-Thermal Energy:
 - Research and development for medium temperature range solar collectors (100°-250°C) (1)

4. CO2 Capture and Storage Technologies for Zero Emission Power Generation:

- CO2 Storage
 - Sizeable pilot tests for CO2 geological storage (1)
 - Impact of the quality of CO2 on transport and storage (1)
 - Pilot plant-scale demonstration of advanced post-combustion CO2 capture processes with a view to integration in fossil fuel power plants (2)
 - Pilot plant-scale demonstration and integration of emerging and new combustion technologies (2)
- Cross-cutting and Regulatory issues:
 - Support to the coordination of stakeholders' activities in the field of Zero Emission Energy Production (1)

5. Smart Energy Networks:

- Development of Interactive Distribution Energy Networks:
 - Integration of variable distributed resources in distribution networks (1)
 - Enhancing electricity networks through use of distributed intelligence (1)
 - Empowering smart customers to participate in active demand and energy system efficiency (1)

5. Smart Energy Networks (continued):

- Pan-European Energy Networks
 - Planning for European Electricity Highways to ensure the reliable delivery of renewable electricity and pan-European market integration (1)
 - Networking of national R&D and demonstration projects on smart metering infrastructure and data processing (1)
 - Facilitating the deployment of safe stationary batteries (1)
 - Support to the coordination of stakeholders activities in the field of Smart Grids (1)

6. Energy Efficiency and Savings:

- Efficient energy use in the manufacturing industry and building sector:
 - Next generation heat pump technologies (1)
- Smart Cities and Communities:
 - Strategic sustainable planning and screening of city plans (SC)
 - Large scale systems for urban area heating and/or cooling supply (SC)
 - Demonstration of nearly Zero Energy Building Renovation for cities and districts (SC)

7. Horizontal Programme Actions:

- ERA-NET:
 - ERA-NET Plus - Bioenergy Demonstrations of the European Industrial Bioenergy Initiative (EN-RTD)
 - ERA-NET on Solar Electricity: Implementation of the Solar Energy Industry Initiative (EN-RTD)
- Other Horizontal Actions:
 - Future Emerging Technologies (1)

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