



Topics for the FP7-ENERGY-2010-1 Call

Information Day – 2010 calls

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2010 RTD Energy General Call

- Overview (slides 3 - 4)
- Topics (slides 5 to 15)
- Evaluation (slides 16 - 17)
- Some advice (slide 18)

Note: An introduction to this presentation, common to the all individual 2010 energy RTD calls, is provided separately . Similarly, rules for participation and common aspects of submission and evaluation procedures are presented separately



FP7-ENERGY-2010-1



JTI
Hydrogen and fuel cells

CO2 capture and storage technologies for zero emission power generation

Renewable electricity generation

Clean coal technologies

Renewable fuel production

Smart energy networks

Renewables for heating and cooling

Energy savings and energy efficiency

Knowledge for energy policy making

Horizontal Programme Actions



FP7-ENERGY-2010-1

Deadline: 15 Octobre 2009

Indicative Budget: 54 M€



EUROPEAN
COMMISSION

	Activity / Area	Topic	Budget
2.1	"RESe" PV	Efficiency and material issues for thin film	35 M€
2.3	"RESe" Wind	Large Offshore Turbines	
2.5	"RESe" CSP	Dry-cooling	
		High temperature components	
3.5	"RESf" Alternate route	Direct "biological" conversion	
8.1	Energy efficiency in manufacturing industry & building sector	Valorisation of low heat	
5.1	CO2 Capture and Storage (CCS) for Zero Emission Power Generation / Storage	Advance capture techniques	19 M€
5.2		Storage characterisation	
		Trans-national cooperation in geological storage	
		Site abandonment	
7.3	Smart Energy Networks	Energy storage for power distribution network	

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Not legally binding



COOPERATION

Area 2.1: RESe Photovoltaics



Topic 2.1.1: Further development of very thin wafer based c-Si photovoltaics

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** High efficiency solar cells (>20%) and thinner Si Wafers (<100 μ m) to reduce material intensity and production costs
- **Other information:**
 - Active participation from SME represents an added value

Area 2.3: RESe Wind



Topic 2.3.1: Cross-sectoral approach to the development of very large offshore wind turbines

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** This will allow better use of the huge potential of offshore wind energy with very large and robust wind turbines and will bring down the today high cost of offshore wind power for massive deployment.
- **Other information:**
 - The effective involvement of industrial partners and stakeholder active in off-shore and harsh environment is essential to achieving the full impact of the project.



Area 2.5: RESe CSP



Topic 2.5.1: Dry-cooling methods for multi-MW sized CSP plants

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** To enable operation of CSP plants without cooling water consumption while achieving high efficiency and cost competitiveness.
- **Other information:**
 - Active participation of relevant industrial partner is essential to achieving the full impact of the project.

Area 2.5: RESe CSP



Topic 2.5.2: Main CSP components for high-temperature operation

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** Operating temperature beyond 400°C would increase efficiency, reduce electricity production cost and accelerate CSP technology deployment.
- **Other information:**
 - Active participation of relevant industrial partner is essential to achieving the full impact of the project.

Area 3.5: RESf Alternative RES Fuel



Topic 3.5.1: Liquid or gaseous fuel production using direct biological conversion of solar radiation

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** To lead towards highly efficient processes for direct solar radiation conversion into high quality fuels. It should have a strong impact on climate change mitigation and on sustainability issues.
- **Other information:**
 - The participation of top class research groups from US and Japan could maximise the impact of this precompetitive topic.

Area 5.1: CO2 Capture

Topic 5.1.1: Demonstration of advanced CO2 capture concepts



- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** The project(s) should result in a major step forward in the development of CO2 capture technologies that have a significantly lower energy penalty and water use..
- **Other information:**
 - N/A

Area 5.2: CO₂ Storage



Topic 5.2.1: CCS – storage site characterisation

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** The project(s) should facilitate and support the large scale demonstration of CCS in the EU.
- **Other information:**
 - N/A

Area 5.2: CO2 Storage



Topic 5.2.2: Trans-national cooperation and networking in the field of geological storage of CO2

- **Content and scope:** Read the work-programme
- **Funding scheme:** Coordination Action
- **Expected impact:** Facilitate the large scale demonstration and deployment of CCS, and support the implementation of the Directive on geological storage of carbon dioxide in all relevant EU Member States and Associated Countries.
- **Other information:**
 - N/A

Area 5.2: CO2 Storage

Topic 5.2.3: CCS – site abandonment



- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** A harmonised approach to the safe abandonment of CO2 storage sites will facilitate and support the large scale demonstration of CCS.
- **Other information:**
 - The active participation of relevant partners from the Carbon Sequestration Leadership Forum, in particular the U.S., could add to the scientific and/or technological excellence of the project(s) and/or lead to an increased impact of the research to be undertaken.

Area 7.3: Cross cutting issues and technologies



Topic 7.3.1: Energy storage systems for power distribution networks

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** The research and development of cost-effective energy storage systems, based on different technologies, should contribute to increasing the hosting capacity of future electricity distribution networks for variable distributed energy resources and to the reliability, efficiency, security and reduced environmental impact of these networks.
- **Other information:**
 - N/A

Area 8.1: Energy efficiency in manufacturing industry and building sector



Topic 8.1.1: Valorisation of low temperature heat

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** Better and more efficient use of low temperature heat, available from various sources such as industrial processes, CHP-plants and even households would lead potentially to large energy savings. The projects are expected to bring forward new technologies and concepts with large European-wide applicability.
- **Other information:**
 - N/A

Two stages Evaluation Procedure – Stage 1

(“outline” proposals)



- Submission deadline: 15 October 2009, 17:00:00
- Evaluation: November 2009
- Short proposal
 - S&T section: 10 pages, A4, 11pt., 1.5cm margins
 - Consortium and financial resources: 2 pages, A4, 11pt., 1.5cm margins
- Will be evaluated on the basis of S&T quality only
- Threshold on budget: List of proposals representing 250% of available budget will be selected only
- Threshold on S&T: 3 out of 5

NOTE: see separate dedicated presentation for full information



Two stages Evaluation Procedure – Stage 2

(“full” proposals)



- Submission deadline will be specified in invitation letter (indicative: 11 March 2009)
- Evaluation: April 2009
- Full proposal should be complete and precise, but as concise as possible
- Will be evaluated against the entire set of evaluation criteria. Marks of 0 to 5 with possibility of ½ marks.

Thresholds:	S&T quality	4	}	out of 5
	Implementation	3		
	Impact	3,5		
	Overall	12		out of 15

NOTE: see separate dedicated presentation for full information



Some Advice



- Get in touch with your NCP and other intermediaries
- Look at the EU “List of Projects” and the Technology Platforms reports
- Be aware that drafting a proposal and establishing the right consortium takes time, particularly as a coordinator
- Read carefully the Work Programme (topic, funding scheme, expected impact, etc.) and other documents (e.g. guides)
- Do not assume that the independent evaluation experts know everything you know

Thank you for your attention !