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FP7 Energy Research Information Day

Brussels, 24-25 September 2008

Topics for the FP7-ENERGY-2009-1 Call

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European Commission





Contents

2008 RTD Energy General Call

- **Overview (slides 3 - 4)**
- **Topics (slides 5 to 17)**
- **Evaluation (slides 18 - 19)**
- **Some advice (slide 20)**

Note: An introduction to this presentation, common to the all individual 2009 energy RTD calls, is provided separately . Similarly, rules for participation and common aspects of submission and evaluation procedures are presented separately



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FP7-ENERGY-2009-1

JTI

Hydrogen and fuel cells

CO2 capture and
storage technologies
for zero emission
power generation

Renewable
electricity
generation

Clean coal
technologies

Renewable
fuel production

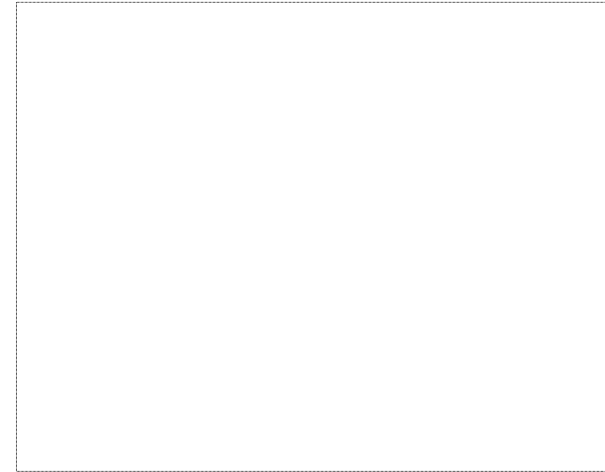
Smart energy
networks

Renewables
for heating and cooling

Energy savings
and energy efficiency

Knowledge for energy policy making

Horizontal Programme Actions



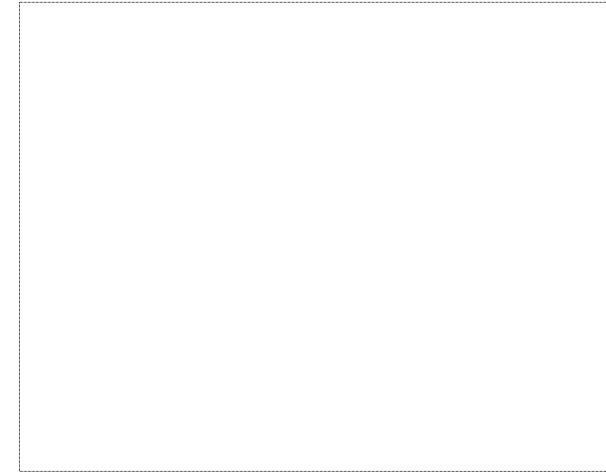


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FP7-ENERGY-2009-1

Activity / Area		Topic	Budget
2/1	"RESe" PV	Efficiency and material issues for thin film	26 M€
2/5	"RESe" CSP	Key components	
2/4	Geothermal	Understanding and mitigation of induced seismicity associated to geothermal development	22 M€
2/9	Cros Cutting Issues	Deep Offshore multi-purpose platforms for wind/ocean energy conversion	
		Coordination activities on offshore platforms	
3/2	"RESF" / 2nd Generation	Algae and other suitable non-food aquatic biomass feedstock	23 M€
		Biowaste as feedstock	
5/1	CO2 Capture and Storage (CCS) for Zero Emission Power Generation / Storage	Innovative capture techniques	23 M€
5/2		Safe and reliable geological storage of CO2	
		Towards an infrastructure for CO2 transport and storage	
7/3	Smart Energy Networks	HTS Devices for electricity networks	12 M€
		High density/rapid release energy storage	
		Strategic impact of the roll-out of electric and plug-in hybrid vehicle on the grid	





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Area 2.1: RESe Photovoltaics

Topic 2.1.1: Efficiency and material issues for thin-film Photovoltaics

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** Accelerated market development and more efficient thin-film photovoltaics
- **Other information:**
 - Active participation from SME represents an added value
 - Active participation of relevant Chinese partner could add to the scientific and/or technological excellence of the project and/or to an increased impact of the research to be undertaken.



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Area 2.5: RESe CSP

Topic 2.5.1: Key components for Concentrated Solar Power

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** Improvements in the performance of key components, in particular at the high end of current temperature ranges, should lead to substantial reduction in the cost of electricity generation from CSP
- **Other information:**
 - Active participation of relevant industrial partner is essential to achieving the full impact of the project.



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Area 2.4: RESe Geothermal

Topic 2.4.1: Understanding and mitigation of induced seismicity associated with geothermal field development

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** Accelerated market development and deployment of EGS through avoidance of technical and social obstacles to the further development of this technique
- **Other information:**
 - Active participation of industrial partner involved in the exploitation of EGS is essential to achieving the full impact of the project.
 - Up to 1 project may be funded



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Area 2.9: RESe Cross Cutting Issues

Topic 2.9.1: Deep off-shore multi-purpose renewable energy conversion platforms for wind/ocean energy conversion

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** Improve the cost/benefit ratio of the off-shore technologies through multiple use of the infrastructures. This will bring off-shore renewable energy application closer to the market.
- **Other information:**
 - The effective involvement of industrial partner active in off-shore development is essential to achieving the full impact of the project.



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Area 2.9: RESe Cross Cutting Issues

Topic 2.9.2: Coordination action on off-shore renewable energy conversion platforms

- **Content and scope:** Read the work-programme
- **Funding scheme:** Coordination Action
- **Expected impact:** Improve information exchange and promotion of specific research in this field between academia and industry, public and private actors.
- **Other information:**
 - The review of relevant activities outside the EU alongside the EU review will be welcome.
 - The effective involvement of industrial partner active in off-shore development is essential to achieving the full impact of the project.
 - Maximum project duration is considered to be 18 months
 - Up to 1 project may be funded



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Area 3.2: RESf 2nd Generation Biofuel

Topic 3.2.1: Algae and other suitable non-food aquatic biomass feedstock for 2nd generation biofuel production

- **Content and scope:** Read the work-programme
- **Funding scheme:** Coordination Action
- **Expected impact:** Development of existing and planning of future activities at national and pan-European level and structuring of this field of research which is rather scattered
- **Other information:**
 - Maximum project duration is considered to be 18 months
 - Up to 1 project may be funded



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Area 3.2: RESf 2nd Generation Biofuel

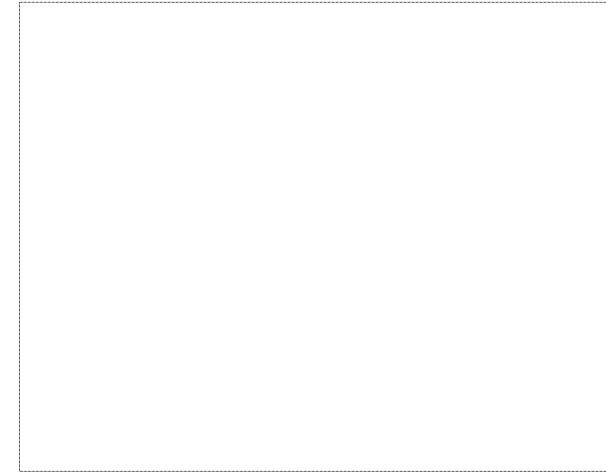
Topic 3.2.2: Biowaste as feedstock for 2nd generation

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** Development of new energy conversion technologies; better understanding of using biowaste to produce fuel
- **Other information:**
 - Active participation of SME and private and public communities is seen as essential.
 - Active participation of relevant Indian partners could add to the scientific and/or technological excellence of the project and/or to an increased impact of the research to be undertaken.



Area 5.1: CO₂ Capture

Topic 5.1.1: Innovative capture techniques



- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** Progress in this area should result in a significant reduction of the efficiency penalty of CO₂ capture for power plants and in a substantial decrease of the cost of capture. This would allow accelerating the commercial deployment of large scale near zero emission power generation technology based on CCS.
- **Other information:**
 - Active participation of relevant partners from the CSLF could add to the scientific and/or technological excellence of the project and/or to an increased impact of the research to be undertaken.



Area 5.2: CO₂ Storage

Topic 5.2.1: Safe and reliable geological storage of CO₂

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** A methodological approach to storage safety will provide the analytical base needed for an accountable stewardship for the stored CO₂. It is expected that this will build confidence in – and addressing public acceptance of – geological storage as a mean to reduce CO₂ emission, allowing the safe and commercial deployment of large scale near zero emission power generation technology based on CCS.
- **Other information:**
 - **Active participation of relevant partners from the CSLF could add to the scientific and/or technological excellence of the project and/or to an increased impact of the research to be undertaken.**



Area 5.2: CO₂ Storage

Topic 5.2.2: Towards an infrastructure for CO₂ transport and storage

- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project (research dominance)
- **Expected impact:** Progress in this area would allow the safe and commercial deployment of large scale near zero emission power generation technology based on CCS.
- **Other information:**
 - Active participation of relevant partners from the CSLF could add to the scientific and/or technological excellence of the project and/or to an increased impact of the research to be undertaken.

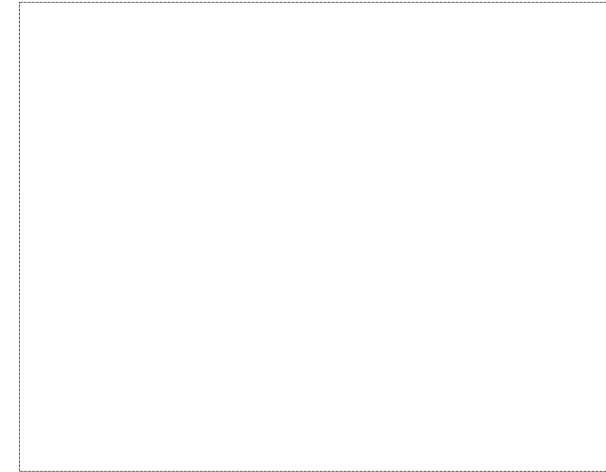


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Area 7.3: Cross cutting issues and technologies

Topic 7.3.1: HTS Devices for electricity networks



- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** Progress in this area should enable the establishment of a market for HTS based devices for electricity networks
- **Other information:**
 - The project should demonstrate the technical and economical potential of the proposed solution compared to competing technologies.

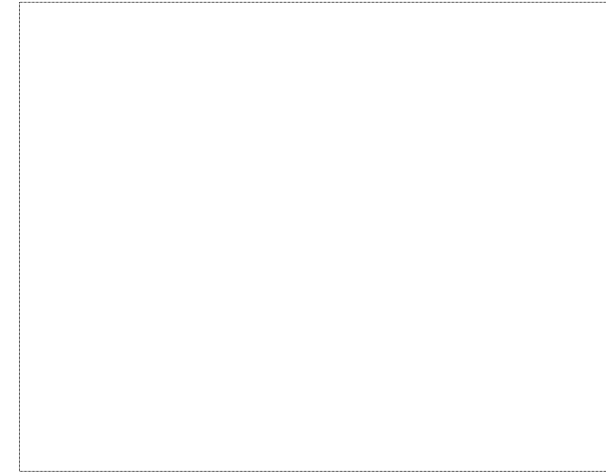


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Area 7.3: Cross cutting issues and technologies

Topic 7.3.2: High density/rapid release energy storage



- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** Energy storage is increasingly being recognised as a key element in improving grid reliability and stability in the future electricity delivery system, as well as hybrid drivetrain vehicle. The research and development of cost effective energy storage systems, based on different technologies, should contribute to the reliability, efficiency, security and environmental impact of these different applications
- **Other information:**
 - Active participation of SMEs represents an added value

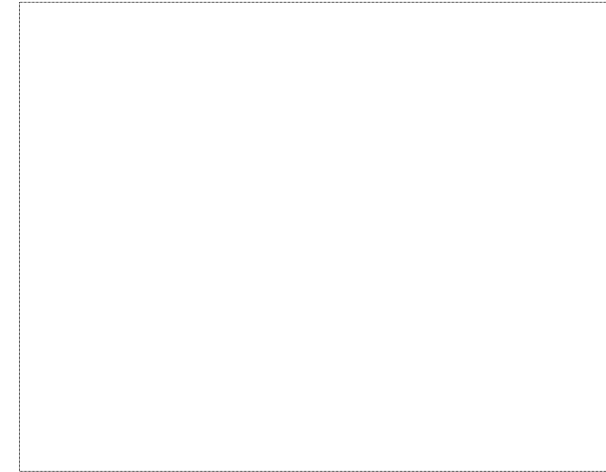


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Area 7.3: Cross cutting issues and technologies

Topic 7.3.3: Strategic impact of the roll-out of electric and plug-in hybrid vehicles on grid infrastructure



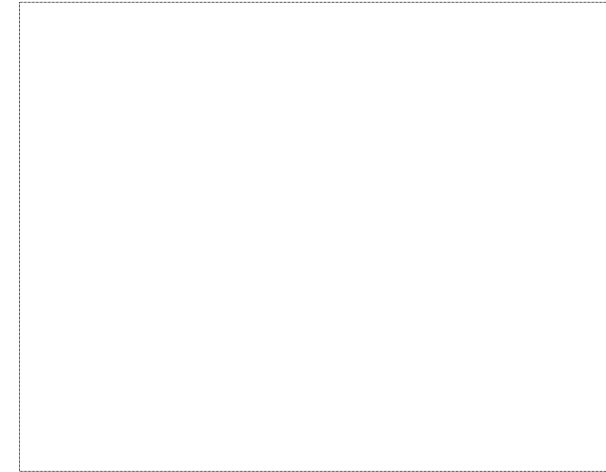
- **Content and scope:** Read the work-programme
- **Funding scheme:** Collaborative Project
- **Expected impact:** A methodological approach to the proper evaluation of the impact of electric and plug-in hybrid vehicle on the electricity system will provide the analytical base needed to develop the necessary electricity network related policy and regulations, as well as to properly plan the technical evolution of the required network infrastructure
- **Other information:**



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Two stages Evaluation Procedure – Stage 1 ("outline" proposals)



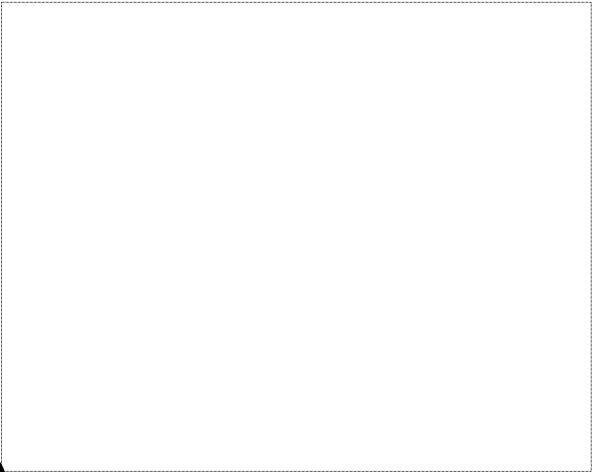
- **Submission deadline: 25 November 2008, 17:00:00**
- **Evaluation: December 2008 - January 2009**
- **Limited size (10 pages, A4, 12pt., 2cm margins)
+ 2 pages describing consortium and estimated
financial resources involved**
- **Will be evaluated on the basis of S&T quality only**
- **Threshold on budget: List of proposals representing
250% of available budget will be selected only**

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: 1st April 2009)
- Evaluation: April/Mai 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 1/2 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

Energy Info Day FP7-ENERGY-2009 – 24-25th September 2008

NOT LEGALLY BINDING





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 !