

INFO DAY 2008 ENERGY CALL

Vienna, 3 December 2007

Introduction to 2008 RTD Energy Calls

European Commission

Contents

- Context & related policy initiatives, in short
- Energy Theme Overview
- 2008 RTD Energy Calls Overview

This presentation is a common introduction to all individual 2008 energy RTD calls presentations.

EU Most Relevant Policy Initiatives

- **Green Paper** of March 2006 on “A European Strategy for Sustainable, Competitive and Secure Energy”
- **Energy Package** adopted in 2007 including the following statements:
 - Technology is a key element in achieving the Green Paper triangle and hence the proposed Strategic Energy Technology Plan (SET Plan)
 - Main EU targets:
 - 20% of greenhouse gas emissions reduction by 2020
 - 20% of energy efficiency improvement by 2020
 - 20% of renewable energy sources in the energy mix by 2020
(With 10% Biofuels in transport)

European Strategic Energy Technology Plan (SET-Plan)

COM(2007)723 of 22 November 2007

- Joint strategic planning – new Governance - align technology development with energy policy goals
- Effective implementation:
 - European Industrial Initiatives: strategic technology alliances
 - Strengthening European energy research capacities – European Energy Research Alliance
 - Trans-European Energy Networks and Systems of the Future – transition planning
- Increase resources, both financial and human. Follow-up Communication in 2008
- Reinforce international cooperation

Energy Theme : Overall objective

- **Adapting the current fossil-fuel based energy system into a more sustainable one,**

less dependent of imported fuels,

based on a diverse mix of energy sources and carriers,
with particular attention being paid to

lower and non-CO2 emitting energy technologies,
combined with enhanced energy efficiency and
conservation.

- **To address the pressing challenges of security of supply and climate change, whilst increasing the competitiveness of Europe's industries.**

EU FP : Co-operation Specific Programme

THEMES

1. Health
2. Food, agriculture and fisheries, and biotechnology
3. Information and communication technologies
4. Nanosciences, nanotechnologies, materials and new production technologies
5. **Energy (2.3 Billion €)**
6. Environment (including climate change)
7. Transport (including aeronautics)
8. Socio-economic sciences and the humanities
9. Space
10. Security

Energy Theme : Overview

Note : 10 "activities" implemented jointly by DG RTD and TREN

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

Energy Theme : The Work Programme (WP)

- **WP legal basis is the Cooperation Specific Programme**, which sets the overall scope and objectives and, broadly speaking, the subjects to be covered
- **WP may be revised annually** (as required) and constitutes the basis of annual Calls for Proposals
- **WP Terminology:**
 - ➔ Theme (Energy)
 - ➔ Activity (nine in the Energy Theme)
 - ➔ Area (stable throughout FP7, but with flexibility)
 - ➔ Topic (subjects open for proposals in the calls, only in the year in question)

2008 RTD Energy Calls in Brief

- **4 calls** managed by DG RTD (R&D focus) in 2008
- Collaborative Projects (**CP**) and Coordination and Support Actions (**CSA**)
- **Two stages** submission and evaluation procedures, *with the exception of* co-ordinated call between Russia and EU
- **For each topic:** content/scope; funding scheme; expected impact; any other pertinent information
- Where applicable, indication of **maximum number** of projects that will be supported
- Unless **budget split** is specified, **competition** within and across topics within the same call

The Four 2008 RTD Energy Calls

- **(General) RTD Energy Call:** 6 activities; 11 topics; 26.3 M€; 2 stages submission and evaluation - [FP7-ENERGY-2008-1](#)
- **EU-Russia co-operation (coordinated call):** 2 activities; 2 topics (“Power generation from biomass” and “Innovative operational and/or monitoring tools for large power systems”); 4 M€; single stage - [FP7-ENERGY-2008-RUSSIA](#)
- **Future and Emerging Technologies:** horizontal actions; 1 topic “strictly bottom-up”; 2 stages; 15 M€ - [FP7-ENERGY-2008-FET](#)
- **Energy and Materials Programmes Joint Call:** horizontal actions; same topic in both programmes “Novel materials for energy applications”; 25 M€ (15+10) - [FP7-ENERGY-NMP-2008-1](#)

2008 General RTD Energy Call

Activity / Area	Topic	Max. No. of projects	Funding Scheme	Indicative Budget
2/1	"RESe" / PV	1	CP (Research) - SICA	13 M€
3/2	"RESe" / 2nd Generation	open	CP (Research) - SICA	
5/2	CO2 Capture and Storage (CCS) for Zero Emission Power Generation / Storage	open	CP -SICA	
	CCS - Capacity building (Emerging Economies)	open	CP -SICA	
	CCS - Public acceptance	1	CSA (support)	
	CO2 Storage - Methodology for qualification of deep saline aquifers	open	CP (Research)	
2/7	RESe / Hydro	1	CP	13 M€
7/1	Smart Energy Networks / Interactive Distribution Networks	1	CP	
7/2	Smart Energy Networks / Pan-European Networks	open	CP (Research)	
8/1	Energy Efficiency and Savings / Manufacturing Industry	open	CP (R&D)	
10	Horizontal Programme Actions	1	CSA (Coordin.)	0,3 M€

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Specific International Cooperation Actions (SICA)


- o Topics for Collaborative Projects especially designed and devoted to the international cooperation with targeted ICPC
- o Address problems, on the basis of mutual benefit, of shared interest and importance e.g. the environment consequences of energy policies, energy supply inter-dependency, technology transfer and capacity building

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 Community research

SICAs

- o Priorities for activities are identified through bi-lateral dialogues with targeted ICPC and/or at multi-lateral level, and based on mutual interest and benefit
 - CP: at least 4 legal entities: 2 MS/AC + 2 ICPC
- o **Specific budget: 13 M€ (separate ranking list)** in the General Call FP7-ENERGY-2008-1


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 EUROPEAN COMMISSION
 Community research

SICAs

- **MPC: 2.1.1:** Enhancing strategic international cooperation initiatives in the field of concentration photovoltaics
- **LA: 3.2.1:** Enhancing international cooperation between the EU and Latin America in the field of biofuels
- **CSLF: 5.2.1:** CO₂ Capture and Storage – Capacity building with the largest emerging economies

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Two stages Evaluation Procedure – Stage 1 (“outline” proposals)

- Submission deadline: 26 February 2008, 17:00:00
- Evaluation: March-April 2008
- Limited size (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 4/5). Mark of 0 to 5 with possibility of ½ marks

Two stages Evaluation Procedure – Stage 2 (“full” proposals)

- Submission deadline will be specified in invitation letter (indicative: 29 May 2008)
- Evaluation: June 2008
- 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

Energy EU-Russia Call

- Date of publication: **30 November 2007**
- Deadline: **26 February 2008**
- Indicative budget: **4 M€** (EC contribution)
 - Topic ENERGY.2008.2.2.1: Enhancing strategic international cooperation with Russia in the field of power generation from biomass
 - Topic ENERGY.2008.7.2.3: Innovative operational and monitoring tools for large power systems
- All specific arrangements for this particular Call will be set out in the relevant **Guide for Applicants**

Participants

- According to the FP7 rules, the **minimum** number of participants in each project proposal is **3** from **different EU Member States or Associated Countries**
- In order to ensure a balance between participants **a minimum** number of **two participants** established in **Russia** is requested in each project proposal. This is an eligibility criterion.

FP7-Energy-2008-FET

Topic ENERGY.2008.10.1.1

- **Indicative budget:** 15 M€
- **Funding scheme:** Collaborative Projects
- **Publication of Call:** 30th November 2007
- **Type of Call:** Two stages
- **Deadline for Stage 1:** 26th Feb 2008, 17:00:00

FP7-Energy-2008-FET

Topic ENERGY.2008.10.1.1

- **Technical content/scope:** This **call/topic** aims at ensuring a genuine chance for “**emerging ideas**” to be funded based on the strategic need to utilise the **creative spirit** in European research. It covers **all the areas** of the Theme and is to provide rewards for “**high risk / high impact**” science and to vigorously promote multi-disciplinarity on a European collaborative basis.



FP7-Energy-2008-FET

Topic ENERGY.2008.10.1.1

- **Special features:** In order to maximise **industrial relevance** and impact of the research effort, the active participation of High Technology **SMEs** represents an added value to this topic.
- **Expected impact:** To explore new paths **leading to highly innovative novel technologies** for energy applications and, to contribute to the establishment of a strong scientific and technical base for European science and technology in **energy emerging areas**.



What are we expecting to get?

- High risk/high impact projects
- Different technological sectors, cutting across boundaries
- Tangible, highly ambitious and challenging objectives
- Projects lying well beyond the international state-of-the-art
- Multinational partnership but with no "superfluous" partners

FP7-ENERGY-NMP-2008-1 *Call*

- **Indicative budget: 25 M€**
(15 M€ Energy + 10 M€ NMP)
- **Funding scheme: Collaborative Projects**
- **Max. EC contribution 3M€ - This is an eligibility criterion**
- **Publication of the Call: 30 November 2007**
- **Type: Two stages**
- **Deadline for Stage One: 26 February 2008, 17:00**

Scope and content

- **The projects are to address a wide spectrum of novel materials, including nanomaterials, for energy applications**
- **All technology areas of the Energy Theme are included, for example:**
 - energy conversion and storage
 - photon capture
 - CO₂ capture and storage
- **The research activities to be supported should go beyond conventional approaches, be novel, ambitious and of long term nature**

2008 RTD Energy Calls Documents

- **Relevant general documents readily available include:**
 - EC Rules for participation
 - Rules for submission, evaluation, selection, award
 - Standard model grant agreement
 - Guide for beneficiaries
 - Guide to Financial Issues

All documents listed above and additional ones can be found at:

http://cordis.europa.eu/fp7/find-doc_en.html

- **Further call-specific documents :**

These will be available on the following site when the call will be published, i.e. 30 November 2007:

<http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7CallsPage>

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 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**

2008 RTD Energy Calls : Submission Deadline

All calls published on 30 November 2007
with
submission deadline
26 February 2008
at 17.00.00 (Brussels local time)

Gateway to information
<http://cordis.europa.eu/en/home.html>

Thank you for your attention