

Call Title: ENERGY Call Part 1

Call identifier: FP7-ENERGY-2009-1

Date of publication: 3 September 2008

Deadline: 25 November 2008 at 17.00.00, (Brussels local time)

Indicative budget¹: EUR 83 million from the 2009 budget^{2,3}

All budgetary figures given in this work programme are indicative. Following the evaluation of proposals the final budget awarded to actions implemented through calls for proposals may vary:

- by up to 10% of the total value of the indicated budget for this call; and
- the repartition of the sub-budgets awarded within this call, following the evaluation of projects, may also vary by up to 10% of the total value of the indicated budget.

Indicative Budget

	Indicative budget ⁴
Area Energy.2.1 Photovoltaics Area Energy.2.5 Concentrated Solar Power	EUR 26 million
Area Energy.2.4 Geothermal Area Energy.2.9 Cross cutting Issues Activity Energy.3 Renewable Fuel Production	EUR 22 million
Activity Energy.5 CO2 capture and storage Technologies for Zero emission Power generation	EUR 23 million
Activity Energy.7 Smart energy Networks	EUR 12 million

Topics called:

Activity/ Area	Topics called	Funding Schemes
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¹ A reserve list will be constituted if there are a sufficient number of good quality proposals. It will be used if extra budget becomes available.

² Under the condition that the preliminary draft budget for 2009 is adopted without modification by the budgetary authority.

³ Any savings from previous activities launched under the previous RTD calls in the Energy work programme would be assigned to call FP7-2009-1 subject to a global budgetary commitment in 2008.

⁴ A reserve list will be constituted if there are a sufficient number of good quality proposals. It will be used if extra budget becomes available.

ACTIVITY ENERGY.2: RENEWABLE ELECTRICITY GENERATION		
AREA ENERGY.2.1: PHOTOVOLTAICS	ENERGY.2009.2.1.1: Efficiency and material issues for thin film photovoltaics	Collaborative Project
AREA ENERGY.2.4: GEOTHERMAL	ENERGY.2009.2.4.1 Understanding and mitigation of induced seismicity associated with geothermal field development	Collaborative Project
AREA ENERGY.2.5: CONCENTRATED SOLAR POWER	ENERGY.2009.2.5.1: Key components for Concentrated Solar Power	Collaborative Project
AREA ENERGY.2.9: CROSS CUTTING ISSUES	ENERGY.2009.2.9.1: Deep off-shore multi-purpose platforms for wind/ocean energy conversion	Collaborative Project
	ENERGY.2009.2.9.2: Coordination activities on offshore platforms	Coordination and support action (coordinating action)
ACTIVITY ENERGY.3: RENEWABLE FUEL PRODUCTION		
AREA ENERGY.3.2: SECOND GENERATION FUEL FROM BIOMASS	ENERGY.2009.3.2.1: Algal and other suitable non-food aquatic biomass feedstock for 2 nd generation biofuel production	Coordination and support action (coordinating action)
	ENERGY.2009.3.2.2: Biowaste as feedstock for 2 nd generation	Collaborative Project
ACTIVITY ENERGY.5: CO2 CAPTURE AND STORAGE TECHNOLOGIES FOR ZERO EMISSION POWER GENERATION		
AREA ENERGY.5.1 CO2 CAPTURE	ENERGY.2009.5.1.1: Innovative capture techniques	Collaborative Project
AREA ENERGY.5.2: CO₂ STORAGE	ENERGY.2009.5.2.1: Safe and reliable geological storage of CO ₂	Collaborative Project
	ENERGY.2009.5.2.2: Towards an infrastructure for CO ₂ transport and storage	Collaborative Project
ACTIVITY ENERGY.7: SMART ENERGY NETWORKS		
AREA ENERGY 7.3: CROSS CUTTING ISSUES AND TECHNOLOGIES	ENERGY.2009.7.3.1: HTS Devices for Electricity Networks	Collaborative Project
	ENERGY.2009.7.3.2: High density /rapid release energy storage	Collaborative Project
	ENERGY.2009.7.3.3.: Strategic impact of the roll-out of electric and plug-in hybrid vehicles on grid infrastructure	Collaborative project

Eligibility conditions

The eligibility criteria for this call are set out in Annex 2 to the work programme.

Evaluation procedure:

The evaluation shall follow a two-step procedure.

The page limits that apply to proposals submitted under this call are given in the Guide for Applicants and in the proposal part B template available through the EPSS. The Commission will instruct the experts to disregard any pages in excess of these limits.

The first stage proposal should focus on the S&T content and on clear identification of the intended results, their intended use and the expected impact (economic, social, environmental, etc.). Information on the consortium composition and the estimated financial resources involved should also be provided..

First stage proposals will be evaluated on the basis of their scientific quality. They will be evaluated remotely with the consensus session being held in Brussels. Stage 1 proposals shall be submitted at the closure date mentioned above.

Coordinators of retained proposals in step 1 ('go' proposals) will be invited to submit a complete proposal that will be then evaluated against the entire set of evaluation criteria. The closure date of the second submission will be specified in the invitation to submit the complete proposal. The indicative closure date is 1.04.2009.

The evaluation criteria and subcriteria, together with the selection and award criteria, for the different funding schemes are set out in Annex 2 to this work programme

Proposals will not be evaluated anonymously.

At the Panel stage, proposals with equal overall scores will be prioritised, in contrast to Annex 2, according to their scores for the Quality criterion. If they are still tied, they will be prioritised according to their scores for the Impact criterion.. If any proposals are still tied, then overall work programme coverage will be used to decide the priority order.

Indicative evaluation and contractual timetable:

Evaluation stage 1 proposals: December/January 2009

Evaluation stage 2 proposals: April /May 2009. Evaluation results: estimated to be available within two months after the closure date. A reserve list of projects might be established.

Consortia agreements: Participants in Collaborative Projects are required to conclude a consortium agreement; participants in coordination and support actions are encouraged, but not required, to conclude a consortium agreement

Particular requirements for participation, evaluation and implementation:

For this call, implemented via a two-step procedure, the following criteria and thresholds are applied:

Evaluation criteria and thresholds for stage 1 proposals:

Stage 1 proposals are evaluated on the basis of their **S/T quality**

A list of proposals for 250% of the available budget will be invited to proceed to stage 2. If there is a tie between the proposals with the lowest mark to enter the list of proposals to proceed to stage 2, all those proposals with the same mark will be added to the list.

Evaluation criteria and thresholds for stage 2 proposals:

Stage 2 proposals are evaluated on the basis of the following three criteria: **1. S/T quality; 2. Implementation; 3. Impact**. For each criterion marks from 0 to 5 will be given, with the possibility of half-point scores. Successful proposals must pass the minimum thresholds as follows:

	Minimum threshold
S/T quality	4/5
Implementation	3/5
Impact	3,5/5
Overall threshold required	12/15

The forms of grants and maximum reimbursement rates which will be offered are specified in Annex 3 to the Cooperation work programme.

The minimum number of participating legal entities required, for all funding schemes, is set out in the Rules for Participation. They are summarised in the table below⁵:

Funding scheme	Minimum conditions
Collaborative project	At least 3 independent legal entities, each of which is established in a MS or AC, and no two of which are established in the same MS or AC.
Collaborative project for specific international cooperation actions (SICA)	At least 4 independent legal entities. Of these, 2 must be established in different MS or AC. The other two must be established in different international cooperation partner countries.
Coordination and support action (coordinating action)	At least 3 independent legal entities, each of which is established in a MS or AC, and no two of which are established in the same MS or AC.
Coordination and support action (supporting action)	At least 1 independent legal entity.

The following points will be reflected in the evaluation

ENERGY.2009.2.1.1: Efficiency and material issues for thin-film photovoltaics: In order to maximise industrial relevance and impact of the research effort, the active participation of

⁵ MS = Member States of the EU; AC = Associated country. Where the minimum conditions for an indirect action are satisfied by a number of legal entities, which together form one legal entity, the latter may be the sole participant, provided that it is established in a Member State or Associated country.

SMEs represents an added value to this topic. The active participation of relevant Chinese partners could add to the scientific and/or technological excellence of the project and/or lead to an increased impact of the research to be undertaken;

ENERGY.2009.2.4.1: Understanding and mitigation of induced seismicity associated with geothermal field development: The active participation of industrial partners involved in the exploitation of EGS is essential to achieving the full impact of the project.

Topic ENERGY.2009.2.5.1: Key components for Concentrated Solar Power: The active participation of relevant industrial partners is essential to achieving the full impact of the project.

ENERGY.2009.2.9.1: Deep off-shore multi-purpose renewable energy conversion platforms for wind/ocean energy conversion: The effective involvement of industrial partners active in off-shore developments is essential to achieve the full impact of the project.

ENERGY.2009.2.9.2: Coordination action on off-shore renewable energy conversion platforms: The effective involvement of industrial partners active in off-shore developments is essential to achieve the full impact of the project. This will be considered in the evaluation.

ENERGY.2009.3.2.2: Biowaste as feedstock for 2nd generation: In order to maximise industrial relevance and impact of the research effort, the active participation of SMEs represents an added value to this topic. The active participation of relevant Indian partners could add to the scientific and/or technological excellence of the project and/or lead to an increased impact of the research to be undertaken.

ENERGY.2009.5.1.1: Innovative capture techniques: The active participation of relevant partners from the Carbon Sequestration Leadership Forum could add to the scientific and/or technological excellence of the project and/or lead to an increased impact of the research to be undertaken

ENERGY.2009.5.2.1: Safe and reliable geological storage of CO₂: The active participation of relevant partners from the Carbon Sequestration Leadership Forum could add to the scientific and/or technological excellence of the project and/or lead to an increased impact of the research to be undertaken

ENERGY.2009.5.2.2: Towards an infrastructure for CO₂ transport and storage: The active participation of relevant partners from the Carbon Sequestration Leadership Forum could add to the scientific and/or technological excellence of the project and/or lead to an increased impact of the research to be undertaken

ENERGY.2009.7.3.2: High density /rapid release energy storage: In order to maximise industrial relevance and impact of the research effort, the active participation of SMEs represents an added value to this topic.