



## CALL TEXT AND NATIONAL/REGIONAL REGULATIONS

**Proposal Submission Period:**  
April 10<sup>th</sup> – May 29<sup>th</sup>, 2013

**Websites:**

<http://www.fenco-era.net/index.php?index=209> (for Call Text and Guidelines for Applicants)  
<http://www.forskningsradet.no/en/Funding/CLIMIT/1220788300457> (for online proposal submission)

**Contact:**

Research Council of Norway  
Ms. Åse Slagtern  
E-mail: [asl@forskningsradet.no](mailto:asl@forskningsradet.no)  
Phone: + 47 22037029/+47 93059481

## TABLE OF CONTENTS

<b>PART 1: CALL TEXT .....</b>	<b>3</b>
1. Background and rationale of the FENCO-NET Joint Call between United Kingdom, Greece, Poland and Norway .....	3
1.1. <i>The FENCO-NET</i> .....	3
2. Topics for Joint Actions within FENCO-NET .....	3
<i>Topic 1. Preventing unintended migration of CO<sub>2</sub> from geological storage sites</i> .....	3
<i>Topic 2. CO<sub>2</sub> onshore and offshore monitoring techniques</i> .....	4
<i>Topic 3. CO<sub>2</sub> transport</i> .....	4
<i>Topic 4. New innovative CO<sub>2</sub> capture technologies</i> .....	4
<i>Additional information</i> .....	5
2.2. <i>Participating countries</i> .....	5
2.3. <i>Eligible beneficiaries and composition of the consortia</i> .....	5
2.4. <i>Eligible costs and duration of funding</i> .....	6
2.5. <i>Call budget and funding principle</i> .....	7
4. Proposal evaluation and funding decision .....	7
4.1. <i>Eligibility check</i> .....	7
4.2. <i>Referee evaluation of proposals</i> .....	8
4.3. <i>Recommendation for approval</i> .....	9
4.4. <i>Meeting of the Funding Organisations Forum</i> .....	9
5. Project reporting and output .....	10
6. Legal clauses .....	10
7. Indicative timetable .....	10
<b>PART 2: NATIONAL AND REGIONAL FUNDING REGULATIONS .....</b>	<b>11</b>
Norway (Research Council of Norway) .....	11
United Kingdom .....	11
Greece .....	11
Poland .....	11
<b>PART 3: CONTACT INFORMATION OF THE FENCO-NET JOINT CALL SECRETARIAT AND THE NATIONAL AND REGIONAL CONTACT PERSONS ..</b>	<b>12</b>

## PART 1: Call Text

### 1. Background and rationale of the FENCO-NET Joint Call between United Kingdom, Greece, Poland and Norway

#### 1.1. The FENCO-NET

FENCO-NET is a grouping of European organisations having responsibilities relating to the funding of national R&D programmes in the field of fossil energy (the “Funding Institutions”). FENCO-NET is flexible in character, able to accommodate a range of working relationships from unanimous concerted effort through optional participation by any number of members to bilateral collaboration.

The primary function of FENCO-NET is to facilitate and encourage transnational cooperation of national R&D programmes in the fossil energy field. Also, as far as it is relevant to that primary function, FENCO-NET seeks to facilitate liaison between member organisations in their activities relating to the programmes of the European Union (EU) and those undertaken under other international collaborative agreements.

United Kingdom, Greece, Poland and Norway have decided to announce a call on Carbon Dioxide Capture and Storage (CCS).

### 2. Topics for Joint Actions within FENCO-NET

#### Topic 1. Preventing unintended migration of CO<sub>2</sub> from geological storage sites

**Scope:** Geological storage of CO<sub>2</sub> requires that the CO<sub>2</sub> remains safely stored for thousands of years. New knowledge on how to avoid migration of CO<sub>2</sub> out of the storage reservoir is required, and possible pathways for leakage should be studied. Applications should address the following challenges:

- Estimation of leakage flux rates of anthropogenic and natural systems, including use of improved remote sensing.
- Possible migration paths in faults, anticline structures should be studied.
- Identification of measurement thresholds for natural and anthropogenic (leaked) CO<sub>2</sub>.
- Quantification and modelling of potential subsurface and surface leakage impacts.

Different types of storage structures should be addressed, including depleted oil and gas reservoirs and aquifers. Application of the EC Directive on CCS and of EU-ETS Directive should be included in the study.

**Expected impact:** The project should result in recommendations for how to prevent unintended migration of CO<sub>2</sub>, including guidelines for characterisation of possible storage sites and required monitoring plan for the operational and post-operational phase.

## Topic 2. CO<sub>2</sub> onshore and offshore monitoring techniques

**Scope:** Improved or new monitoring methods and technologies are required to ensure safe transport and storage of CO<sub>2</sub>. Different methods will be necessary depending on the reservoir and environment (probe in the soil, vertical profiles, continuous monitoring systems, direct/indirect techniques). Monitoring technologies based on geochemical and environmental surveys needs be developed. Better understanding of possible effects of leakages on the nature is also required.

**Expected impact:** Improved understanding of the required monitoring frequency, resolution, methods and costs. Improved models for determination of anomalies based on biological input and numerical simulations.

## Topic 3. CO<sub>2</sub> transport

**Scope:** Safe CO<sub>2</sub> transport in pipelines or ship over larger distances and through populated areas require improved understanding of likely CO<sub>2</sub> transport leakage scenarios. This includes both material failure scenarios and models to predict regional analysis of source/sink and CO<sub>2</sub> diffusion. It is also important to understand how impurities and water content influence corrosion during CO<sub>2</sub> pipeline transport.

**Expected impact:** Better understanding of possible reasons for leakage scenarios and improved models for CO<sub>2</sub> diffusion.

## Topic 4. New innovative CO<sub>2</sub> capture technologies

**Scope:** In order for CCS to be competitive in a sustainable future energy market, focus is needed on new innovative CO<sub>2</sub> capture solutions that can contribute to significant cost reduction. In this respect processes such as innovative sorbent based processes, membrane based processes, and Chemical looping (CLC) based processes for pre-combustion, post-combustion and oxyfuel CO<sub>2</sub> capture technologies are possible candidates. The project could include

- Overall evaluation of new innovative CO<sub>2</sub> capture processes
- Investigate and address cost, technology challenges such as energy efficiency, sorbent and membrane stability and efficiency

- Investigate several metal oxides for use as O<sub>2</sub> carriers for CLC processes. Issues such as solids handling and O<sub>2</sub> carrier capacity, reactivity should be addressed.

**Expected impact:** Improved understanding of new innovative CO<sub>2</sub> capture technologies and how they can improve the CO<sub>2</sub> capture efficiency.

## Additional information

All applications must include at least two research partners from two different countries. Partners from the same country can account for maximum 60 per cent of the total budget. Additional industrial funding is encouraged but not required.

## 2.2. Participating countries

The following countries have agreed to participate through national Funding Institutions in the FENCO-NET:

- **Norway:** Research Council of Norway (RCN)
- **United Kingdom:** Engineering and Physical Sciences Research Council (EPSRC)
- **Greece:** General Secretariat for Research and Technology
- **Poland:** The National Centre for Research and Development

Only researchers based in those countries are eligible for funding through the FENCO-NET Joint Call.

## 2.3. Eligible beneficiaries and composition of the consortia

In general, funding in the FENCO-NET Joint Call will be for **public and private legal RTD entities, higher education institutions and non-university research establishments (research institution) (the “Beneficiaries”)** depending on the regulations of each Joint Call Funding Institution. The Joint Call Funding Institutions will individually decide on the eligible Beneficiaries (and the percentage of funding) in their countries/regions according to their national/regional regulations and restrictions. The national/regional regulations on this issue will be indicated in the annexes to the Call Text.

Each project consortium shall consist of **at least 2 (two) Beneficiaries established in different participating countries** (cf. article 2.2.). Private companies (Industry) can be partners to the project but cannot be, under any circumstances, beneficiaries under the FENCO\_NET Joint Call.

The number of partners of a project consortium should be appropriate for the aims of the research project and reasonably balanced in terms of multilateral participation. Each project should clearly demonstrate the added value of working together.

Each project consortium should choose **one principal project leader, and one responsible from each of the other participating countries**. The principal project leader will be responsible for submitting the proposal on behalf of the whole consortium. A project leader may participate in only one project proposal.

**Researchers/research teams that do not participate in the FENCO\_NET Joint Call** may participate as additional partners in a project consortium if they can prove that they have secured funding from other sources that allows them to fulfil their obligations within the consortium. A **confirmation letter** of the external sponsoring institution has to be submitted at the time of proposal submission.

## 2.4. Eligible costs and duration of funding

Within the framework of the FENCO\_NET Joint Call, costs eligible for funding are:

- **Travel costs:** Only travels to the countries participating in the Joint Call and Brussels/Belgium are eligible. In case of additional partners (researchers who are from a European country other than those participating in the Joint Call and who secure their own funding), travels to this country are also eligible.
- **Expenses for the organisation of small scientific events:** Room rent, catering, printing of conference brochures, travel and accommodation of invited external experts (that do not form part of the project consortium but are considered necessary for the success of the event) are eligible.
- **Research material and small-scale research equipment:** Consumables, small equipment and subcontracting (for example for the fabrication of samples at a specialised facility) are eligible if its need is listed in detail and duly justified.
- **Personnel costs**

The **eligibility of all costs depends on the national/regional regulations** applied by each Joint Call Funding Institution and should be calculated accordingly.

**All project partners are advised to contact their national and Regional Contact Persons** (see Part. 3) for further information on eligible costs and national specifications.

Funding will be provided for the **maximum duration of three (3) years**. The funding of projects should start earliest in October 2013 and should be concluded by October 2016. The Greek partners should end their project by September 2015 the latest.

## 2.5. Call budget and funding principle

The FENCO-NET Joint Call will have the following funding principles: the national financial contributions to a virtual common pot will be assigned to project Beneficiaries of that respective country only, in accordance with national and regional regulations. **Cross-border funding is not envisaged.**

The overall budget of the FENCO-NET Joint Call is the sum of the individual budgets allocated by each participating Funding Institution. If more than one Funding Institution from a given country participates in the Joint Call, the added amount of these Funding Institutions is considered as the country's overall Joint Call contribution.

Below is an overview of the individual national/regional contributions assigned to the FENCO-NET Joint Call budget by each participating Funding Institution:

<b>Country/Funding institution</b>	<b>Amount</b>
<b>Norway:</b> Research Council of Norway (RCN)	0.66 mill Euro
<b>United Kingdom:</b> Engineering and Physical Sciences Research Council (EPSRC)	£ 0.5 mill /approx. 0.58 mill Euro
<b>Greece:</b> General Secretariat for Research and Technology	0.3 mill Euro
<b>Poland:</b> National Centre for Research and Development (NCBIR)	0.5 mill Euro
<b>Overall call budget</b>	<b>~2.04 mill Euro</b>

It is expected that about 3 projects will be funded through the FENCO-Net Joint Call.

More information on how to submit a proposal can be found in [here](#).

## 4. Proposal evaluation and funding decision

A Three-step evaluation process will be implemented for the proposals submitted within the FENCO-NET Joint Call.

### 4.1. Eligibility check

The Joint Call Secretariat and the National Contact Persons will check the eligibility of all submitted proposals taking into consideration the general Joint Call criteria and the individual national criteria, respectively.

The **general eligibility criteria** that will be applied are:

- Appropriate length and layout of the proposal (maximum 10 pages and use of template for the Project Description)

- Inclusion of all necessary information in English
- Eligibility of project partners that can be considered as Beneficiaries
- Participation of at least 2 (two) Beneficiaries established in different participating countries
- Eligible thematic focus
- Eligibility of requested funding
- Inclusion of the confirmation letter of the external sponsoring institution (in case of additional partners that need to secure their own funding)

## 4.2. Referee evaluation of proposals

The selection of the proposals for funding is based on an **international, independent evaluation by scientific peers**. Each proposal is assessed by at least three (3) evaluators selected by the participating countries.

The following **six (6) evaluation criteria** are used:

### **1. Scientific excellence of the project (scoring from 1 to 7 points)**

- Sound concept and quality of objectives
- Originality, innovative character, uniqueness of the research idea

### **2. The project partners (scoring from 1 to 7 points)**

- Scientific track–record of the partners/publications in scientific journals
- Scientific standing of the organisation the applicants belong to

### **3. Methodology and work plan (scoring from 1 to 7 points)**

- Quality and effectiveness of the methodology
- Feasibility of the work plan (in relation to governance, adequate budget, resources, time schedule)
- The appropriateness of the proposed methodology

### **4. Expected impact of project results (scoring from 1 to 7 points)**

- Impact of the project on the scientific field/community on a 10-50 year timescale
- Expected exploitation of the results

### **5. Added value of multilateral cooperation (scoring from 1 to 7 points)**

- Level of the collaborative interaction between project partners
- Added value of the international project consortium



- Sustainability of the expected collaboration
- Interdisciplinarity
- Involvement of early-stage researchers and gender balance
- Balance of skills of the project team , including academic and non-academic partners

#### **6. Resources and management (scoring from 1 to 7 points)**

- The effectiveness of the proposed planning and management
- Appropriateness and justification of the requested resources

The **scoring system** is as follows:

**7: Exceptionally good** – A project at the highest level

**6: Excellent** – The proposal successfully addresses all relevant aspects of the criterion in question. Any shortcomings are minor.

**6: Very good** – The proposal addresses the criterion very well, although certain improvements are possible.

**5: Good** – The proposal broadly addresses the criterion, but improvements are necessary.

**4: Fair** – There are serious inherent weaknesses in relation to the criterion in question.

**3: Weak** – The criterion is addressed in an inadequate and unsatisfactory manner.

**1: Poor**– The proposal fails to address the criterion in question or cannot be judged due to missing or incomplete information

### **4.3. Recommendation for approval**

Based on the eligibility check and the scientific evaluation, the Secretariat will recommend which proposals should be supported. Relevant criteria considered in giving recommendation may include the following:

- Beneficiaries from all participating countries as part of the project consortium
- Additional funding by industry (confirmed by at least LOI)

### **4.4. Meeting of the Funding Organisations Forum**

The Funding Organisation Forum consists of one to two members designated by each of the participating countries (minimum four persons). The Funding Organisations Forum will take **the final decision on the proposals to be funded on a consensus basis**, based on the scientific evaluation and the recommendations of the Secretariat. It will discuss and approve the recommended projects according to the ranking list and the available budget. The funding will be administered according to the terms and conditions of the participating national Funding Institutions, taking into account the applicable regulations.

All applicants will be informed of the outcomes of the evaluation by September 2013.

## 5. Project reporting and output

The principal project leaders of the funded projects will be requested to send **interim reports (after one and two years of funding) as well as a final report (after three years of funding)** to the Joint Call Secretariat (asl@forskningsradet.no). The reports should highlight the main (interim) results and outputs of the projects and any problems that have arisen and how they have been solved. A template for both reports will be prepared to ensure the comparability of information.

**Additional individual reporting to the national Funding Institutions might be necessary depending on national regulations.**

## 6. Legal clauses

Each consortium funded through the FENCO-NET Joint Call is strongly advised to conclude a **Consortium Agreement** listing the rights and responsibilities of each project partner. Depending on the nature of the funded project, special regulations should be included in the Consortium Agreement (e.g. as regards Intellectual Property Rights).

## 7. Indicative timetable

Publication of the Call for Proposals	Wednesday, 10 April 2013
Deadline for proposal submission	Wednesday, 29. May 2013 (deadline of 12 am GMT and 12 ZET)
Eligibility check	29 May– 7 June 2013
Referees evaluations	7 June 2013 - 8 August 2013
Funding Organisations Forum meeting	Beginning September 2013
Information of applicants about the results of the evaluation	September 2013
Preparation of national funding contracts/funding decisions	September 2013
Start of projects	September 2013

## PART 2: National and Regional Funding Regulations

### Norway (Research Council of Norway)

The call is open for competence projects (KPN). Information regarding funding schemes is found here: [http://www.forskingsradet.no/en/Funding\\_schemes/1138882212929](http://www.forskingsradet.no/en/Funding_schemes/1138882212929)  
[http://www.forskingsradet.no/en/Application\\_types/1138882215869](http://www.forskingsradet.no/en/Application_types/1138882215869)

### United Kingdom

Proposal guidance and eligibility can be found in the following link:

<http://www.epsrc.ac.uk/funding/guidance/Pages/guidance.aspx>

Information on the Carbon Capture and Storage portfolio at EPSRC can be found here:

<http://www.epsrc.ac.uk/research/ourportfolio/researchareas/Pages/ccs.aspx>

### Greece

National eligibility criteria are specified and defined in detail in the respective “Guide for applicants” about “European S&T Cooperation – Action for funding Greek organizations participating successfully in the Joint Calls for Proposals of European ERA-NETs” which can be found in the following link:

<http://www.gsrt.gr/central.aspx?sld=120I474I1220I646I494516&olID=820&neID=341&neTa=416&nclD=0&neHC=0&tbid=0&lrlD=2&oldUIID=aI820I0I120I474I1220I0I2&actionID=load>

### Poland

Eligibility criteria and funding conditions are specified under the following link:

<http://www.ncbir.pl/programy-miedzynarodowe/wspolpraca-sieciowa/fenco>

## **PART 3: Contact information of the FENCO-NET Joint Call Secretariat and the National and Regional Contact Persons**

The **FENCO-NET Joint Call Secretariat** is entrusted with the overall operational management of the Joint Call.

The **National Contact Persons (NRCPs)** are located in each country which participates in the Joint Call. One of their main tasks is to advise the potential applicants from their countries on the applicable national/regional regulations during the proposal submission process.

<p><b>FENCO-NET Joint Call Secretariat /Contact for Norway</b> Ms. Åse Slagtern Research Council of Norway E-mail: asl@forskningsradet.no Phone:+ 47 22037029 Mobile: + 47 93059481</p>
<p><b>Contact for United Kingdom</b> Rebecca Leithall Engineering and Physical Sciences Research Council (EPSRC) E-mail: Rebecca.Leithall@epsrc.ac.uk Phone: +44 (0) 1793444498</p>
<p><b>Contact Person for Greece</b> Name: Chrysoula Diamanti Institution: General Secretariat for Research and Technology E-mail: cdiama@gsrt.gr Phone:+30 2107458096</p>
<p><b>Contact Person for Poland</b> Name: Malgorzata Swiderska Institution: National Centre for Research and Development (NCBIR) E-Mail: malgorzata.swiderska@ncbr.gov.pl Phone:+ 48 223907279</p>