

# **A**ccelerating **C**CS **T**echnologies

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## **ACT Second Call**

**Published 4 June 2018**

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## **ACT is joining forces for implementation of CCUS**

For the first ACT call, published in 2016, a total of 10 partners from 9 European countries joined forces and together with top-up funding from the European Commission made 37 million Euros available for research and innovation actions related to CO<sub>2</sub> Capture, Utilisation and Storage (CCUS). The initiative is called ACT – Accelerating CCUS Technologies.

The ambition of ACT is to facilitate the emergence of CCUS via transnational funding of projects aimed at accelerating and maturing CCUS technology application through targeted innovation and research activities. There were 8 projects funded under the first call.

The following countries participated in the first call of ACT: Norway (coordinator), Germany, Greece, the Netherlands, Romania, Spain, Switzerland, Turkey and the United Kingdom.

The national funding agencies participating in the ACT first call were supported by funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 691712. This cofunded approach is not available for this second call.

For the second call the same 9 countries have invited Mission Innovation countries to join the call (Germany, Netherlands, Norway and The United Kingdom are already part of the Mission Innovation community). From those invited France and the United States have agreed to join the call. All funds will be allocated from national R&D budgets. National funds will support entities from that funding agency's country. There will be no transfer of funds between participating countries.

Further information can be found on the ACT web-site: [www.act-ccs.eu](http://www.act-ccs.eu)

Note: the term CCUS is used to refer to all areas of the CCS/CCUS chain.

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## Introduction

This document describes the objectives, scope, and topics of the call, rules for participation and procedures from proposal to implementation of the projects. Further information on ACT can be found on the ACT website: <http://www.act-ccs.eu>

On the ACT website a matchmaking section is provided in order to support consortium building. Applicants looking for project partners can find potential partners listed in this section. If they wish to be listed themselves, they should contact their national contact person.

ACT is complementary to calls for proposals issued by the EC under its current and subsequent Horizon 2020 Work Programme, or other available instruments, including the national research programmes planned by the countries involved in ACT.

The ACT call is a two-stage process. Stage 1 asks for pre-proposals, and Stage 2 asks for full project proposals.

**The call for pre-proposals is open until 12 September 2018  
(13:00 CEST).**

By or on 30 November 2018 applicants that are successful in Stage 1  
will be invited to enter Stage 2 of the procedure:

**the call for full proposals will close on 1 March 2019  
(13:00 CET).**

The targeted start date for projects is 1 September 2019

## National Funding Agencies, Level of Funding

The budget that is available for this Call from each funding agency is shown in Table 1, a total range of €22.05-30.05 million. National budgets have some degree of flexibility depending on the quality of the proposals put forward and the results of the evaluation.

Each national funding body will provide funding for national entities only. For example, in a project involving Germany, Netherlands and UK, Germany will fund the German based organisations, Netherlands will fund the Dutch organisations and so on. As such, in addition to the rules for participation set by the ACT Secretariat, national eligibility criteria will apply for each country participating in the call (see Annex 1 for details).

**Table 1. National funding agencies and budget**

Participating country	Funding organisation	Available budget (€ million)
France	The French Agency for the Environment and Energy Management (ADEME)	0.5
Germany	Forschungszentrum Jülich GmbH, Projektträger Jülich (FZJ/PtJ)	1-6
Greece	General Secretariat for Research and Technology (GSRT)	1.5
The Netherlands	Rijksdienst voor Ondernemend Nederland (RVO)	4
Norway	The Research Council of Norway (RCN) and Gassnova SF (GN)	3-6
Romania	Executive Agency for Higher Education, Research and Innovation Funding (UEFISCDI)	1
Spain	Ministry of Economy, Industry and Competitiveness – State Research Agency (MINECO-AEI)	0.45
Switzerland	Swiss Federal Department for the Environment, Transport, Energy and Communications (DETEC)	1
Turkey	The Scientific and Technological Research Council of Turkey (TUBITAK)	0.5
United Kingdom	Department for Business, Energy and Industrial Strategy (BEIS) (indicative at current exchange rate €7.4 million)	6.5 (£ million)
United States	Department of Energy (DoE) (indicative at current exchange rate €1.7 million)	2 (US\$ million)
<b>Total</b>		<b>22.05-30.05</b>

## Scope

The intention of ACT is to facilitate the emergence of CCUS by accelerating and maturing CCUS technology through targeted financing of innovation and research activities.

ACT will address the technological, environmental, social and economic challenges required to accelerate CCUS. Projects that incorporate or address the Priority Research Directions (PRDs, [link](#)) identified at the Mission Innovation CCUS Challenge Workshop (Houston 2017) will be particularly welcome.

Projects are also encouraged to address one or several of the research and innovations activities in the SET-Plan CCS and CCU Implementation Plan endorsed by the SET-Plan Steering Group in September 2017 ([download](#)).

### Objective of the Second ACT joint call

Successful projects will facilitate the emergence of CCUS in the energy and industrial sectors. The ACT ambition of accelerating the time to market for CCUS technology will require industrial involvement in research and innovation activities. Therefore, project proposals that are led by industrial partners are particularly welcome.

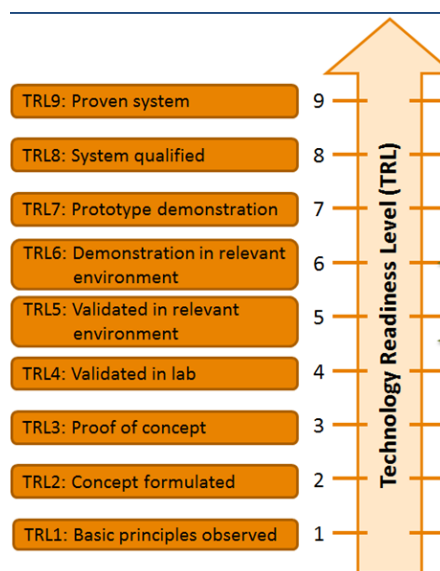
Project proposals are required to address public awareness and environmental aspects, the latter for example through lifecycle analyses.

The available budget will be split into two separate areas, roughly in the following manner:

- Type A: approximately 70 % of the budget will be available for large transnational projects (> €3 million).
- Type B: approximately 30 % of the budget will be available for smaller transnational research and innovation projects with a maximum of €3 million per project.

The ACT consortium will adjust this percentage if required to ensure that it funds as many high quality projects as possible.

The call does not include specific targets for Technology Readiness Level (TRL, see Figure 1), but large projects should aim for higher TRL levels and all projects should aim to advance the TRL as a result of the project.



**Figure 1:** Technology readiness levels – see also Annex G of the Horizon 2020 Work Program 2018-2020 at [https://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-ga\\_en.pdf](https://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-ga_en.pdf)

Project proposals must illustrate how their projects may help accelerate the time to market of affordable, cost-effective, low environmental impact and resource-efficient CCUS technology.

Access to top class research infrastructure is key for reaching ACT objectives. Project proposals should, if relevant, seek to maximise synergies with existing infrastructures, such as, for example ECCSEL<sup>1</sup> and

<sup>1</sup> Details available at [www.eccsel.org](http://www.eccsel.org)

members of the International Test Centre Network<sup>2</sup>. Projects should have a significant bearing on accelerating CCUS technology either for the energy sector, for application in energy intensive industries, or with utilisation.

Projects that exploit the potential of carbon negative solutions with CCS, and also air capture of carbon dioxide, are within the scope of this call for proposals.

## Rules for Participation (transnational eligibility criteria)

The requirements detailed in this section must be met by **all** applicants. In addition to these general requirements there are *specific national funding agency rules that must also be followed* (see Annex 1).

For applicants in EU countries, compliance with EU rules and guidelines for state aid is crucial. Each of these ACT funding organisations shall ensure that their funding of the respective national part of an ACT project is in accordance with state aid regulations.

### Types of research, development and innovation activities

ACT will look favourably on large innovative projects connecting to already existing pilots/demo sites, however also welcomes smaller research projects. New pilot and demo facilities should have potential for upscaling to industrial size either in a demo phase or early commercial phase. The combination of different types of research (ranging from basic to applied research) within one project (differentiation should be described in the relevant work packages) is favoured and possible as long as the eligibility rules of the individual funding agencies involved are fulfilled.

### Who can participate and apply?

Each project proposal must be submitted by a project consortium consisting of at least three eligible applicants from at least three ACT participating countries. This call has been opened up for Mission Innovation CCUS challenge countries beyond Europe to join the existing ACT Consortium. Each project consortium must have the required expertise to undertake research and development within the specified themes.

#### Lead Applicant's role

The Lead Applicant submits the joint transnational proposal and will be responsible for running and managing the project, if the proposal is selected for funding. They will be the contact point with the ACT Secretariat on behalf of the whole project consortium and be responsible for the administrative management of the project. In addition, the Lead Applicant will act as the national consortium leader and be responsible for leading any national partners. The Lead Applicant must be eligible for funding by one of the funding agencies participating with funding for this call. Please check the eligibility criteria of the relevant national funding agencies in Annex 1.

#### Co-Applicant's role

Each Co-Applicant is responsible for their share of the project work. There may be more than one Co-Applicant from any one country. If there is more than one Co-Applicant from a country, one of them may be identified as the national consortium leader. All Co-Applicants must be eligible for funding by one of the funding agencies participating with funding in this call. Please check the eligibility criteria of the relevant national funding agencies in Annex 1.

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<sup>2</sup> Details available at <https://www.nationalcarboncapturecenter.com/itcn/>

### Co-operation Partners

A co-operation Partner is a partner in the transnational proposal that participates without receiving funding from one of the ACT-consortium countries, either because their national funding body is not participating in the call or because they are not eligible for funding from participating agencies. Co-operation Partners can be included in the consortium if (a) they finance their activity from other sources than ACT and (b) the consortium in general fulfils the requirements on the number of applicants from participating countries. Project consortia involving Co-operation Partners must ensure that project results will be relevant for participating countries.

### Project consortium

The added value to the project resulting from transnational cooperation must be addressed in the proposal. There is no limit to the total number of partners who may be involved in each project. However, the ACT Call Secretariat expects proposals for large projects to be submitted by consortia comprising applicants from at least 4 partners. No partner may represent more than 70 % of the activity (in terms of person months) in the project.

- Consortia may consist of partners from universities, companies, industry organisations, local/regional governments, research organisations and NGOs.
- Consortia may consist of partners across several positions and disciplines within research and development systems (i.e. basic research, applied research, innovation, business etc.)
- In the case of the large projects the consortia are required to demonstrate the interest for an active involvement in the project by industry partner(s).
- All partners must provide a Letter of Intent. Such a letter must contain an explicit declaration regarding any financial or in-kind contributions agreed upon and the role of the partner. In-kind is regarded as a contribution of an individual's and or entity's time and or materials (use of software or access to facilities) which may or may not have a cost and may or may not be a signatory to a grant agreement.
- Changes to the composition of the consortium, that is a partner dropping out, being replaced or added, that have a minor impact may be possible. A change is only possible with the approval of the involved funding agencies.

### **Project duration and budget**

It is expected that projects are funded for a duration of up to 3 years and will start around 1 September 2019. The exact starting date may depend on the budget allocation (rules) of specific funding agencies. The end date of a project should be harmonised for all applicants in the same consortium. A justification of the requested budget will be required as part of the proposal. The estimated budget must be given in **Euros only** and provided in the format indicated in Annex 4. All costs must be eligible according to the funding agencies' rules (see Annex 1). If in doubt, applicants should consult their respective funding agencies which can advise on funding rules (contact details can be found in Annex 1).

### **Funding agencies' rules and eligibility criteria**

In addition to the general rules and procedures laid down in the section above, specific eligibility criteria apply for each of the participating funding agencies, which must also be met by applicants. This includes but is not limited to: limitations on the types of organisations that can be funded, requirements regarding the types of activities that can be funded, national evaluation rules, maximum funding per partner or per project, etc. We strongly recommend that applicants contact the national contact point at the relevant funding agency (see Annex 1) to confirm their eligibility before submitting a proposal.



**Please note that both transnational and funding agencies' eligibility criteria must be met in order for proposals to go forward to the second stage of the evaluation.**

## Submission

Within the framework of ACT a **two-stage submission and evaluation procedure** will be adopted.

All pre-proposals (stage 1, see template in Annex 2 and separate Excel file as Annex 4) and full proposals (stage 2, see template in Annex 3 and separate Excel file as Annex 4) to the ACT call shall be submitted by the lead applicant via the electronic application system of the Research Council of Norway, accessible via <http://www.forskingsradet.no/en/Funding/CLIMIT/1220788300457>.

**Proposals must be prepared in English. Proposals written in other languages will not be accepted.**

***Submission of a pre-proposal is required before the deadline of 12 September 2018, 13:00 CEST. Please note that pre-proposals will be rejected if the application is not received by this deadline (there will be NO exceptions).***

***Submission of a full proposal must be via the Research Council of Norway's electronic submission system before the deadline of 1 March 2019, 13:00 CET (again, late applications cannot be accepted under ANY circumstances; the system will allow for a practice run ahead of the deadline and any practice information will be overwritten by your final proposal) .***

Project proposals must be submitted by choosing the **ACT call** at this web site:  
<http://www.forskingsradet.no/en/Funding/CLIMIT/1220788300457>

**The electronic submission system requires that a standard form is filled out with key data for the proposal. Please note that financial figures should be in Euro, even when the submission system asks for Norwegian Krone (to avoid unnecessary administrative costs ACT is using the system used by the Norwegian CLIMIT programme).** In addition, a PDF (Portable Document Format) of the proposal must be submitted.

An **online help document for submission** is provided via The Research Council of Norway system. Details are available at [http://www.forskingsradet.no/en/Application\\_form/1138882213237](http://www.forskingsradet.no/en/Application_form/1138882213237)

Regarding additional national requirements for the submission of documents at the national level you are advised to carefully check Annex 1: *Specific Funding Agencies' Rules*.

The pre-proposal/full proposal will only be accepted if signed Letters of Intent (LoI) from **all Co-Applicants / Co-operation Partners are included as appendixes to the proposal**. Therefore it is **within the Lead Applicant's duty to ensure all partner's LoI are signed in due time**. It is not possible to resubmit the pre-proposal/full proposal or parts of it or to revise the pre-proposal/full proposal after the submission deadline. Resubmitting the proposal before the submission deadline is possible.

By transmitting your pre-proposal/full proposal, you give permission for it to be forwarded to your responsible funding agency as well as to all other participating funding agencies involved in ACT. You also agree that the proposal can be forwarded to independent evaluators.

If after reading the instructions in this Call text, information at the ACT-website and the online help document linked above you still have technical questions about the use of the system, please contact the Call Secretariat at the Research Council of Norway.

# Evaluation

## Evaluation procedure

Within the framework of ACT a **two-stage** evaluation **procedure** will be adopted.

The aim of this two stage procedure is to identify issues early on to avoid needless work for the applicants.

The pre-proposals will be assessed by the national funding agencies. The procedure used for this assessment, in particular the depth of the assessment, differs among the participating funding agencies. Further information on this may be available from the national contact points or for a few participating countries may be found in the national annex. After the submission of the pre-proposals, a selection of pre-proposals will be made by the national funding agencies. The successful consortia will then be invited to elaborate their pre-proposals to full proposals. The full proposals will be evaluated and ranked by external experts. A common decision on funding will then be made by the involved funding agencies. The decision will be communicated to the applicants by the Call Secretariat at the Research Council of Norway.

**Note:** Each project recommended for funding is required to have a signed consortium agreement between all partners prior to the start of the project, which addresses as a minimum the following topics:

- Internal organisation and management of the consortium
- Intellectual Property arrangements
- Settlement of internal disputes

We suggest the DESCA 2020 model consortium agreement as a basis for this agreement ([www.desca-2020.eu](http://www.desca-2020.eu)).

## Evaluation criteria

Proposals will be evaluated according to the following criteria (Table 3), which are applicable in addition to national criteria.

**Table 3. Evaluation criteria for ACT**

<b>Excellence</b>	5 points
<ul style="list-style-type: none"> <li>▪ In accordance with the objectives of the call text</li> <li>▪ Clarity and relevance of the project’s objectives</li> <li>▪ Credibility of the proposed technology/concept – including trans-disciplinary considerations, where relevant</li> <li>▪ Credibility of the proposed project approach</li> <li>▪ Ambition and innovation potential - e.g. beyond the current state of the art.</li> <li>▪ Added value of trans-national co-operation within CCS</li> <li>▪ Scientific merit</li> </ul>	
<b>Impact (potential impact of the results of the R&amp;I project)</b>	5 points
<ul style="list-style-type: none"> <li>• Expected contribution to the facilitation of the emergence of CCS (e.g. through cost reduction, involvement of relevant industrial partners, opening niche markets, surmounting major barriers)</li> <li>• Strength of the proposed research data management, exploitation and dissemination plans (including IPR management, where relevant)</li> <li>• Impact on any other environmental or socially important impacts, such as public acceptance.</li> <li>• Industrial relevance</li> </ul>	
<b>Quality and efficiency of the implementation of the R&amp;I project</b>	5 points
<ul style="list-style-type: none"> <li>▪ Coherence and expected effectiveness of the project plan, including the appropriateness of task, use of methods, resource allocation and timing</li> <li>▪ Budget allocation</li> <li>▪ Strength of management structures and governance procedures, including risk management</li> <li>▪ Capability of the Lead Applicant (and partners) to deliver the project and to commercialize the technology further - including e.g. suitability of expertise, complementarity, balance of contributions</li> </ul>	

### Scoring and thresholds

Proposals will be evaluated on the basis of the criteria ‘excellence’, ‘impact’ and ‘quality and efficiency of the implementation’. The criteria will be weighted equally. Evaluation scores will be awarded for each criterion, and not for the different aspects listed in the above table. Each criterion will be scored using the following scale:

- 0) Unacceptable,
- 1) Weak,
- 2) Average,
- 3) Good,
- 4) Very good,
- 5) Excellent.

Half marks will be used. The threshold for individual criteria will be 3. The overall threshold, applying to the sum of the three individual scores, will be 10.

### Documentation and forms

All documents relevant to the call are published on the ACT website: [www.act-ccs.eu/calls/](http://www.act-ccs.eu/calls/)

## Project monitoring and reporting

Project monitoring and reporting will be in accordance with the respective funding agency's rules. In addition to the respective funding agency's requirements, the consortia (by the Lead Applicant) are requested to deliver basic progress reports (in English) to the ACT Call Secretariat, on a quarterly basis. For large projects, there will be a mid-term review. A reporting template will be provided on the ACT website.

Furthermore, one project observer from one of the participating funding organisations will be assigned to each of the funded projects to monitor the progress in transnational cooperation on behalf of the participating funding organisations and to provide a communication link between the project and the Call Secretariat.

The consortia should also take into consideration in planning and budgeting that project reporting (oral or poster) is also expected at the annual ACT knowledge sharing workshops.

All partners participating in the funded projects must ensure that all outcomes (publications, etc.) of the funded projects include a proper acknowledgement of the ACT initiative and the respective funding agencies.

## Contacts and Further Information

### General information on the joint call

Updated information on this joint call and all relevant documents/templates are published on [www.act-ccs.eu](http://www.act-ccs.eu).

If you have questions on the general call process and proposal submission, please contact the ACT Call Secretariat at:

<b>The Research Council of Norway</b>	<b>For scientific issues:</b>	<b>For application and submission issues:</b>
Drammensveien 288	<b>Aage Stangeland</b>	<b>Siri Kinge Ovstein</b>
Postbox 564	Phone: +47 22 03 73 70	Phone: +47 22 03 75 28
N-1327 Lysaker	Mobile: +47 95 82 29 03	Mobile: +47 924 14 649
E-mail:	E-mail: <a href="mailto:ast@rcn.no">ast@rcn.no</a>	E-mail: <a href="mailto:sov@rcn.no">sov@rcn.no</a>

### ACT–Coordinator:

Ragnhild Rønneberg, The Research Council of Norway (RCN), Phone: + 47 91 55 86 62, E-Mail: [rr@rcn.no](mailto:rr@rcn.no)

## Contact points of participating funding agencies

For questions regarding specific funding agencies' rules and additional forms please check *Annex 1: Specific funding agencies'* rules first.

Additional information can be obtained by contacting the indicated national contact persons at the participating funding agencies.

**Table 4. National contact persons**

Contact persons	Organisation	Name	e-mail	Phone
France	ADEME	Aïcha El khamlichi	<a href="mailto:Aicha.elkhamlichi@ademe.fr">Aicha.elkhamlichi@ademe.fr</a>	+33241208225
Germany	PTJ	Wolfgang Körner Heiko Gerhauser Annette Weiß	<a href="mailto:w.koerner@fz-juelich.de">w.koerner@fz-juelich.de</a> <a href="mailto:h.gerhauser@fz-juelich.de">h.gerhauser@fz-juelich.de</a> <a href="mailto:a.weiss@fz-juelich.de">a.weiss@fz-juelich.de</a>	+49 2461 61 6507 +49 2461 61 96830 +49 2461 61 9025
Greece	GSRT	Paraskevi Afentaki	<a href="mailto:pafe@gsrt.gr">pafe@gsrt.gr</a>	+30 2107458112
The Netherlands	RVO	Gerdi Breembroek	<a href="mailto:gerdi.breembroek@rvo.nl">gerdi.breembroek@rvo.nl</a>	+31 652564480
Norway	RCN	Aage Stangeland	<a href="mailto:ast@forskningsradet.no">ast@forskningsradet.no</a>	+47 95 82 29 03
	RCN	Siri Kinge Ovstein	<a href="mailto:sov@forskningsradet.no">sov@forskningsradet.no</a>	+47 92 41 46 49
	Gassnova Gassnova	Hans Jørgen Vinje Tore Hatlen	<a href="mailto:hjv@gassnova.no">hjv@gassnova.no</a> <a href="mailto:th@gassnova.no">th@gassnova.no</a>	+47 48 02 78 05 +47 97 56 54 86
Romania	UEFISCDI	Nicoleta Dumitrache	<a href="mailto:nicoleta.dumitrache@uefiscdi.ro">nicoleta.dumitrache@uefiscdi.ro</a>	+40 21 302 38 86
Spain	MINECO-AEI	Severino Falcón Morales Alberto Abánades Daniel Ruiz	<a href="mailto:severino.falcon@aei.gob.es">severino.falcon@aei.gob.es</a> <a href="mailto:abanades@etsii.upm.es">abanades@etsii.upm.es</a> <a href="mailto:era-energia@aei.gob.es">era-energia@aei.gob.es</a>	+34 91 603 79 59 +34 91 603 79 90 +34 91 603 72 69
Switzerland	DETEC	Gunter Siddiqi	<a href="mailto:gunter.siddiqi@bfe.admin.ch">gunter.siddiqi@bfe.admin.ch</a>	+41 58 462 5324
Turkey	TUBITAK	Ufuk Atay	<a href="mailto:ufuk.atay@tubitak.gov.tr">ufuk.atay@tubitak.gov.tr</a>	+90 (312) 2981237
United States	DOE – Office of Fossil Energy	Mark Ackiewicz John Litynski Darin Damiani	<a href="mailto:mark.ackiewicz@hq.doe.gov">mark.ackiewicz@hq.doe.gov</a> <a href="mailto:john.litynski@hq.doe.gov">john.litynski@hq.doe.gov</a> <a href="mailto:darin.damiani@hq.doe.gov">darin.damiani@hq.doe.gov</a>	+1 301 903 3913 +1 202 586 8087 +1 202 287 5282
United Kingdom	BEIS	Brian Allison Hannah Lord	<a href="mailto:brian.allison@beis.gov.uk">brian.allison@beis.gov.uk</a> <a href="mailto:hannah.lord@beis.gov.uk">hannah.lord@beis.gov.uk</a>	+44 300 06 85358 +44 300 06 85547

## Annex 1: Specific Funding Agencies' Rules

The funding agencies are listed in alphabetic order.

### France

<b>Country/Region</b>	France (FR)
<b>Funding organisation</b>	The French Agency for the Environment and Energy Management (ADEME)
<b>National contact person</b>	Ms El khamlichi Aïcha (CCUS R&D program Manager) Tel: +33.2.41.20.82.25 Email: <a href="mailto:aicha.elkhamlichi@ademe.fr">aicha.elkhamlichi@ademe.fr</a>
<b>Funding commitment</b>	0.5 million €.
<b>Anticipated number of projects</b>	Up to 2.
<b>Maximum funding per awarded project</b>	French partners of successful projects after eligibility and transnational selection processes will be funded by ADEME within the limits of available funding
<b>Eligibility of a partner as a beneficiary institution</b>	There is no constraint regarding the number of companies to be involved from France, but company participation is recommended to ensure dissemination and knowledge transfer.
<b>Eligibility of costs</b>	French applicants should comply with the agency financial guidelines for research and innovation available at :  - FR summary : <a href="http://www.ademe.fr/recherche-innovation/financer-theses-recherche-linnovation/systeme-daide-rdi">http://www.ademe.fr/recherche-innovation/financer-theses-recherche-linnovation/systeme-daide-rdi</a>  - Full document (FR): <a href="http://www.ademe.fr/sites/default/files/assets/documents/systeme_aides_connaissance-deliberation-du-ca-14-3-3-du-23-oct-2014.pdf">http://www.ademe.fr/sites/default/files/assets/documents/systeme_aides_connaissance-deliberation-du-ca-14-3-3-du-23-oct-2014.pdf</a>  Note that typically, funding rates of French participants can be up to 70% for universities or research organizations with eligible personnel costs following an additional cost model. For companies, funding rates shall not exceed 50% except for SMEs which can be up to 70%
<b>Submission of the proposal at the national level</b>	All French applicants who pass the pre-proposal stage have to submit a national application immediately after they have submitted their full proposal via the electronic application system of the Research Council of Norway. The national application forms including further information will be directly sent by ADEME.
<b>Submission of financial and progress reports at the national level</b>	Yes, scientific and financial reporting according to national criteria. At this early stage, French potential beneficiaries should be aware that ADEME procedures require French version for intermediary and final reports.
<b>Information available at</b>	
<b>Other</b>	We highly recommend contacting the ADEME national contact during the preparation of your project in order to check if their proposal is relevant with the national priorities.

## Germany

<b>Country/Region</b>	Germany
<b>Funding organisation</b>	PtJ, Projektträger Jülich
<b>National contact person</b>	Dr. Wolfgang Körner E-mail: <a href="mailto:w.koerner@fz-juelich.de">w.koerner@fz-juelich.de</a> Tel.: +49 (0)2461 61 6507 Website: <a href="http://www.ptj.de">www.ptj.de</a>
<b>National funding indication</b>	National funding indication: Up to €6 million in national funding depending on final budget allocation (€1 million confirmed)
<b>Maximum funding per awarded project</b>	No hard limit
<b>Eligibility of a partner as a beneficiary institution</b>	The organisations which are eligible for funding as well as the eligibility criteria for cooperation are listed in the national guidelines available via <a href="https://www.ptj.de/kraftwerkstechnik">https://www.ptj.de/kraftwerkstechnik</a>  Additionally, note that new CO <sub>2</sub> geological storage projects within Germany are not eligible in this call. Research and development on geological storage must be at existing sites in Germany or take place outside of Germany.
<b>Eligibility of costs</b>	For detailed information visit: <a href="https://www.ptj.de">https://www.ptj.de</a>
<b>Submission of the proposal at the national level</b>	German partners must submit their national partner application in German via easy-Online ( <a href="https://foerderportal.bund.de/easyonline/">https://foerderportal.bund.de/easyonline/</a> ) into the national electronic submission system. This applies to both the first stage (=“Skizze”) and the full proposal. The deadline for the “Skizze” is the same as the international deadline. The deadline for the national full proposal will be communicated to successful applicants in a letter. The German application at both stages consists of a form and a submitted text document. The latter (Vorhabenbeschreibung for the full proposal) does not have to contain a translation of the international proposal. Skizzentext and Vorhabenbeschreibung should contain additional information relevant for the German application and only a very brief summary of the international application for context as appropriate. Applicants may include the pdf document of the international application as an additional annex submitted via the national submission system. This is, however, not obligatory.
<b>Submission of financial and progress reports at the national level</b>	Yes, scientific and financial reporting according to national criteria.
<b>Information available at</b>	<a href="https://www.ptj.de/kraftwerkstechnik">https://www.ptj.de/kraftwerkstechnik</a>
<b>Other</b>	We highly recommend contacting the national contact point during the preparation of the project. Not contacting the national contact point may have a material impact on your chance of being selected for funding.

<b>Funding organisation</b>	<b>General Secretariat for Research &amp; Technology (GSRT)</b>
<b>National contact person</b>	<p>PARASKEVI AFENTAKI  Programme Officer and Programme Manager  Ministry of Education, Research and Religious Affairs  General Secretariat for Research &amp; Technology  International S&amp;T Cooperation Directorate  Bilateral and Multilateral Cooperation Section  14-18 Messogeion Ave., 115 10 Athens, Greece  Tel.: +30 210 7458112, e-mail: <a href="mailto:pafe@gsrt.gr">pafe@gsrt.gr</a>, <a href="mailto:pafenta@gmail.com">pafenta@gmail.com</a>,  Website: <a href="http://www.gsrt.gr">www.gsrt.gr</a></p> <p><b>Info can also be provided by Mrs. Georgia Krana</b>, General Secretariat for Research &amp; Technology, International S&amp;T Cooperation Directorate, Bilateral and Multilateral Cooperation Section, Tel.: +30 210 7458099, e-mail: <a href="mailto:gkr@gsrt.gr">gkr@gsrt.gr</a></p>
<b>Funding commitment</b>	<b>€ 1.500.000 national funding that comes from structural funds and particularly from Operational Programme for Research, Entrepreneurship and Innovation 2014-2020, Research and Innovation Smart Specialization Strategy (RIS3)</b>
<b>Anticipated number of projects with Greek partners</b>	~ 7
<b>Maximum funding per awarded project</b>	<p><b>The aid intensity for each beneficiary:</b></p> <p><b>A. Public Research Institutes and Universities</b>  The aid intensity can reach 100% for performing non economical activities in accordance to the point 19 of the article 2.1.1 of the «Framework for State aid for research and development and innovation» (2014/C 198/01)).</p> <p><b>B. Private Sector</b>  (a) 50 % of the eligible costs for industrial research;  (b) 25 % of the eligible costs for experimental development;  The aid intensities for industrial research and experimental development may be increased up to a maximum aid intensity of 80 % of the eligible costs as follows:  (a) by 10 percentage points for medium-sized enterprises and by 20 percentage points for small enterprises;  (b) by 15 percentage points if one of the following conditions is fulfilled:  (i) the project involves effective collaboration:  — between undertakings among which at least one is an SME, or is carried out in at least two Member States, or in a Member State and in a Contracting Party of the EEA Agreement, and no single undertaking bears more than 70 % of the eligible costs, or — between an undertaking and one or more research and knowledge-dissemination organisations, where the latter bear at least 10 % of the eligible costs and have the right to publish their own research results;  (ii) the results of the project are widely disseminated through conferences, publication, open access repositories, or free or open source software  (iii) the aid intensity for feasibility studies may be increased by 10 percentage points for medium-sized enterprises and by 20 percentage points for small enterprises</p>



<b>Eligibility of a partner as a beneficiary institution</b>	<p><b>All Legal Entities:</b>  Private – SME  Private – large companies  Non-profit research organisation  Higher education institution  Public research organisation  Public organisation</p>
<b>Eligibility of cost</b>	<p><b>Aid for research and development projects</b> (COMMISSION REGULATION (EU) No 651/2014 article 25)  <b>1. Kind of Research.</b>  The aided part of the research and development project shall completely fall within one or more of the following categories:  (a) industrial research;  (b) experimental development;  (c) feasibility studies  <b>2. The eligible costs of research and development projects</b> shall be allocated to a specific category of research and development and shall be the following:  (a) personnel costs: researchers, technicians and other supporting staff to the extent employed on the project; (regarding the individual enterprises the contracts should abide by the national legislation and guidelines)  (b) costs of instruments and equipment to the extent and for the period used for the project. Where such instruments and equipment are not used for their full life for the project, only the depreciation costs corresponding to the life of the project, as calculated on the basis of generally accepted accounting principles are considered as eligible.  (c) Costs for of buildings and land, to the extent and for the duration period used for the project. With regard to buildings, only the depreciation costs corresponding to the life of the project, as calculated on the basis of generally accepted accounting principles are considered as eligible. For land, costs of commercial transfer or actually incurred capital costs are eligible.  (d) costs of contractual research, knowledge and patents bought or licensed from outside sources at arm's length conditions, as well as costs of consultancy and equivalent services used exclusively for the project;  (e) additional overheads and other operating expenses, including costs of materials, supplies and similar products, incurred directly as a result of the project;</p>
<b>Submission of the proposal at the national level</b>	<p>After the funding decision in European level, a national call takes places where the approved Greek applicants are invited to submit the same proposals were submitted in European Level together with the appropriate documents to be funded. After a crosscheck of the proposals and eligibility check of the companies involved, we proceed to contracts for payment.</p>
<b>Submission of financial and progress report at the national level</b>	<p>Yes, progress and financial reporting.</p>

<p><b>Information available at</b></p>	<p>Further information regarding the categorization of aid intensity and the eligibility of costs is available at the national guide published at GSRT website (current national call/adjustments may be made in the next national calls). For any clarifications please contact the NCP.</p> <p><a href="http://www.gsrt.gr/central.aspx?sid=10813341110616461444510&amp;olID=777&amp;neID=673&amp;neTa=12_20503_1&amp;nclD=0&amp;neHC=0&amp;tbid=0&amp;lrID=2&amp;oldUID=a17771011191428110891013&amp;actionID=load">http://www.gsrt.gr/central.aspx?sid=10813341110616461444510&amp;olID=777&amp;neID=673&amp;neTa=12_20503_1&amp;nclD=0&amp;neHC=0&amp;tbid=0&amp;lrID=2&amp;oldUID=a17771011191428110891013&amp;actionID=load</a></p>
<p><b>Other</b></p>	<p><b>1. GSRT potentially supports projects in the following R&amp;I activities (SET-Plan CCS and CCU Implementation endorsed by the SET-Plan Steering Group September 2017) :</b></p> <p>R&amp;I [2] (targets 2,3,10)/ GSRT supports both large and smaller projects.- R&amp;I [4] (target 5)/GSRT supports only smaller projects. - R&amp;I [6] (target 6)/GSRT supports smaller and large projects. – R&amp;I [7] (targets 8,9)/GSRT supports smaller and large projects. – R&amp;I [8] (target 10)/GSRT supports smaller projects.</p> <p>TRL3-(7) (according to COMMISSION REGULATION (EU) No 651/2014/Definitions for Aid for Research, Development and Innovation, pages 24-26/par. 83-96)</p> <p><b>2. Eligible costs as Indirect Costs</b></p> <p>The percentage of up to 15% calculated on the basis of the personnel budget of the partner. Indirect costs are eligible for all Legal Entities.</p> <p><b>3. Upper funding limits for the eligible costs</b></p> <p>Upper limit of the total public funding will be 200.000 € per project (including indirect costs). Please note that this amount can be increased to 250.000 € <u>per project</u> if Greek partner assumes the project coordination.</p> <p>The maximum state aid intensity will be calculated according to the provisions of the European state aid rules and regulations in force (type of research activity, size of the participating enterprise, collaborative research).</p> <p><b>4. Duration of the projects</b></p> <p>The duration of a funded project is 24- 36 months. A possible extension of the duration under conditions can be accepted maximum up to the 1/3 of the initial duration taking into account the starting date without modifying the scientific or increasing the financial part of the project and the prerequisites of the current Operational Programme 2014-2020 (e.g. closing date for financing the projects in national level).</p> <p><b>5. Evaluation</b></p> <p>In national level, only eligibility check is conducted and not a full evaluation in stages 1 and 2. We rely on the evaluation of external experts.</p> <p>For more information please contact the NCP.</p>

## The Netherlands

<b>Country/Region</b>	The Netherlands
<b>Funding organisation</b>	Ministerie van Economische Zaken Acting through: Rijksdienst voor Ondernemend Nederland (RVO)
<b>National contact person</b>	Gerdi Breembroek, RVO Tel: +31 88 602 2315 E-mail: <a href="mailto:Gerdi.breembroek@rvo.nl">Gerdi.breembroek@rvo.nl</a> Website: through <a href="http://www.rvo.nl/ccs">www.rvo.nl/ccs</a>
<b>Funding commitment</b>	€ 4.000.000 national funding
<b>Anticipated number of projects with Dutch partners</b>	No limitations
<b>Maximum funding per awarded project</b>	<p><b>Maximum funding per project is limited to M€ 1,5. No other limits.</b></p> <p>The relevant legal publication is § 4.2.18 ERA-NET energieprojecten (<a href="http://wetten.overheid.nl/BWBR0035474">http://wetten.overheid.nl/BWBR0035474</a>; use the left column to scroll to the right section; in Dutch).</p> <p>Maximum percentages of support for R&amp;D using the definitions laid down in the <a href="#">General Block Exemption Regulation</a> (GBER):</p> <ul style="list-style-type: none"> <li>- Research by Research and knowledge-dissemination organisations: up to a maximum of 80%</li> <li>- Industrial research: up to a maximum of 50%</li> <li>- Experimental development: up to a maximum of 25%</li> </ul> <p>On top of the above percentages for Industrial research and Experimental development, the following applies:</p> <ul style="list-style-type: none"> <li>- The aid intensity increase for small (+20 percent points) or medium (+10 percent points) enterprises, (Article 25, under 6, under a, of the GBER).</li> <li>- An aid intensity increase with another 10%, in case of effective collaboration between an undertaking and one or more research and knowledge-dissemination organisations, under the conditions mentioned in Article 25, under 6, under b i), second bullet, of the GBER.</li> </ul> <p>Demonstration plants that qualify as experimental development can be funded with the relevant percentages, see explanation above. If a demonstration concerns the production of renewable energy or energy efficiency, consult the legal text for the appropriate percentages (article 4.2.122 of the Regeling nationale EZ-subsidies).</p>
<b>Eligibility of a partner as a beneficiary institution</b>	<p>Definitions according to the guidelines laid down in the <a href="#">General Block Exemption Regulation</a> (GBER) on research, development and innovation.</p> <p>All organisations are eligible except provinces, communities and other public bodies.</p>
<b>Eligibility of cost</b>	<p>Project cost according to the guidelines laid down GBER and the “Kaderbesluit Nationale EZ subsidies”; including personnel cost, cost of instruments and equipment, cost of buildings and land, cost for contractual research, knowledge and patents from outside sources, additional operating expenses, directly related to the project. See also <a href="http://www.rvo.nl/subsidiespelregels">www.rvo.nl/subsidiespelregels</a>.</p>

<p><b>Submission of the proposal at the national level</b></p>	<p>Subsidies will be granted using the general guidelines laid down in the <a href="#">Kaderbesluit nationale EZ subsidies</a> and the <a href="#">Regeling nationale EZ subsidies</a>, according to § 4.2.18 ERA-NET energieprojecten. Consult the national contact person in case of queries.</p> <p>National submission parallel to submission to ACT 2<sup>nd</sup> stage; deadline 5 March 2019 17.00h. A national application form and budget specification form need to be completed for the national part of the project.</p> <p>Submission procedure to be confirmed, presumably through E-loket.</p> <p>In the Netherlands, pre-proposals will be evaluated in collaboration with TKI Nieuw Gas.</p>
<p><b>Submission of financial and progress reports at the national level</b></p>	<p>Yes, progress and financial reporting.</p>
<p><b>Information available at</b></p>	<p><a href="http://www.rvo.nl/ccs">http://www.rvo.nl/ccs</a></p>
<p><b>Other</b></p>	<ul style="list-style-type: none"> <li>• Strong industrial participation is highly recommended.</li> <li>• Proposals should aim at technologies applicable in pilots and/or demonstrations within 5 years after project finalization.</li> <li>• Dutch partners in ACT-projects need to share progress and results in Dutch CCS network through CATO. Confidentiality of information will of course be respected.</li> </ul>

## Norway

<b>Country/Region</b>	Norway
<b>Funding organisation</b>	The Research Council of Norway (RCN) and Gassnova
<b>National contact person</b>	Dr. Aage Stangeland Tel: +47 95 82 29 03 E-mail: <a href="mailto:ast@forskningsradet.no">ast@forskningsradet.no</a> Website: <a href="http://www.rcn.no">www.rcn.no</a>
<b>Funding commitment</b>	Norway has allocated € 6 M for ACT. This includes the ACT Fixed Call and the ACT Open Call. € 3-6 M is available for the ACT Fixed Call, and € 0-3 M is available for the ACT Open Call. The exact split between the ACT Fixed Call and the ACT Open Call will be decided later based on the quality of all proposals submitted to ACT.
<b>Anticipated number of projects with Norwegian partners</b>	Up to 8
<b>Maximum funding per awarded project</b>	Only limited by available funding commitment from Norway
<b>Eligibility of a partner as a beneficiary institution</b>	Eligibility criteria for Norwegian partners are given at <a href="http://www.forskningsradet.no/servlet/Satellite?c=Page&amp;cid=1184159007037&amp;pagename=ForskningsradetEngelsk%2FHovedsidemal">http://www.forskningsradet.no/servlet/Satellite?c=Page&amp;cid=1184159007037&amp;pagename=ForskningsradetEngelsk%2FHovedsidemal</a>
<b>Eligibility of costs</b>	For detailed information visit: <a href="http://www.forskningsradet.no/en/Project_budgets/1254007196371">http://www.forskningsradet.no/en/Project_budgets/1254007196371</a> Furthermore State Aid Guidelines must be followed: <a href="http://www.forskningsradet.no/en/State_aid_rules/1253979455092">http://www.forskningsradet.no/en/State_aid_rules/1253979455092</a> The applicants have to specify their type of project (Fundamental research, Industrial research or Experimental development) as whole and on WP-level.
<b>Submission of the proposal at the national level</b>	No. But the project proposal from the whole consortia must have a separate appendix with total budget for Norwegian partners broken down on cost and financing for all Norwegian partners.
<b>Submission of financial and progress reports at the national level</b>	Yes. Scientific and financial reporting according to national criteria. The budget monitoring of Norwegian partners in ACT-projects will be based on Norwegian Kroner (NOK).
<b>Information available at</b>	<a href="http://www.forskningsradet.no/en/Project_reporting/1138882213699">http://www.forskningsradet.no/en/Project_reporting/1138882213699</a>
<b>Other</b>	We highly recommend contacting the national contact point during the preparation of the project.

Norwegian partners in an ACT project will face the same conditions as in the CLIMIT programme ([www.climit.no](http://www.climit.no)) and all budgeting for Norwegian partners will have to comply with requirements in the CLIMIT programme. The Norwegian parts of applications submitted to ACT have to comply with the [CLIMIT Programme Plan](#).

When funding is awarded to an "undertaking" (i.e. an actor that carries out an economic activity consisting of offering products or services on a given market) the funding will be considered to be state aid, and state aid regulations have to be followed.

Norwegian partners in ACT projects can only apply for funding for activities that lead to long term storage of CO<sub>2</sub>. This means that Norwegian partners cannot receive funding for CCU activities where the CO<sub>2</sub> is back in the atmosphere on a short timescale.

Norwegian partners in ACT projects cannot receive funding for activities within Air Capture.

Please note that the Norwegian part of project proposals should have as high industrial involvement as possible.

## Romania

<b>Country/Region</b>	Romania
<b>Funding organisation</b>	UEFISCDI, Executive Agency for Higher Education, Research, Development and Innovation Funding
<b>National contact person</b>	Nicoleta Dumitrache E-mail: <a href="mailto:nicoleta.dumitrache@uefiscdi.ro">nicoleta.dumitrache@uefiscdi.ro</a> Tel.: +40.21.302.38.86 Website: <a href="http://www.uefiscdi.gov.ro">www.uefiscdi.gov.ro</a>
<b>National funding commitment</b>	€1 million in national funding
<b>Maximum funding per awarded project</b>	€0.25 million (if the project is coordinated by a Romanian institution) €0.20 million (if the Romanian institution (s) is (are) partner(s))
<b>Anticipated number of large projects with Romanian partners</b>	~2
<b>Anticipated number of small projects with Romanian partners</b>	~3
<b>Eligibility of a partner as a beneficiary institution</b>	The organisations which are eligible for funding as well as the eligibility criteria for cooperation are listed in the national guidelines available via <a href="http://uefiscdi.gov.ro/userfiles/file/PNCIDI%20III/P3_cOOPERARE%20INTERNATIONALA/ERA%20NET_ERA%20NET%20COFUND/PI%20ERA-NET%202015_consultare.pdf">http://uefiscdi.gov.ro/userfiles/file/PNCIDI%20III/P3_cOOPERARE%20INTERNATIONALA/ERA%20NET_ERA%20NET%20COFUND/PI%20ERA-NET%202015_consultare.pdf</a>
<b>Eligibility of costs</b>	For detailed information visit: <a href="http://uefiscdi.gov.ro/userfiles/file/PNCIDI%20III/P3_cOOPERARE%20INTERNATIONALA/ERA%20NET_ERA%20NET%20COFUND/PI%20ERA-NET%202015_consultare.pdf">http://uefiscdi.gov.ro/userfiles/file/PNCIDI%20III/P3_cOOPERARE%20INTERNATIONALA/ERA%20NET_ERA%20NET%20COFUND/PI%20ERA-NET%202015_consultare.pdf</a>
<b>Submission of the proposal at the national level</b>	No. But the project proposal from the whole consortia must have a separate appendix with total budget for Romanian partners broken down on cost and financing for all Romanian partners. State aid guidelines must be addressed along standard guidelines for ordinary project proposals to the UEFISCDI.
<b>Submission of financial and progress reports at the national level</b>	Yes, scientific and financial reporting according to national criteria.
<b>Information available at:</b>	<a href="https://uefiscdi.ro/act-accelerating-ccs-technologiестechnologies?&amp;wtok=06dc5ff5b9359f10ecc219cda121341cd603359f&amp;wtkps=XY5bDolwEEX3Mt+CnZZChfZgTFwB0EoaKxjKKxj3bumP0a85uTk3dyrK6eVJEizj3XkoLaHMkaFSpSdB4K2GQBkEK7LsF7nptqmre022Q0NF5xjUmd5veoE543pxe4+EsTLCfgpBgWB1s/ucj2KgnHFFZMqGkH9JgfMUA nGmWKxJWPr/NfB8M2vGHYWs4MI9Oj15EzaD206mZv1jbbpbM2SVsNom95B+f4A&amp;wchk=1579da788dbcabee00e680aae9cb1744ac9d21b">https://uefiscdi.ro/act-accelerating-ccs-technologiестechnologies?&amp;wtok=06dc5ff5b9359f10ecc219cda121341cd603359f&amp;wtkps=XY5bDolwEEX3Mt+CnZZChfZgTFwB0EoaKxjKKxj3bumP0a85uTk3dyrK6eVJEizj3XkoLaHMkaFSpSdB4K2GQBkEK7LsF7nptqmre022Q0NF5xjUmd5veoE543pxe4+EsTLCfgpBgWB1s/ucj2KgnHFFZMqGkH9JgfMUA nGmWKxJWPr/NfB8M2vGHYWs4MI9Oj15EzaD206mZv1jbbpbM2SVsNom95B+f4A&amp;wchk=1579da788dbcabee00e680aae9cb1744ac9d21b</a>
<b>Other</b>	We highly recommend contacting the NCP during the preparation of the project.

## Spain

<b>Country/Region</b>	Spain
<b>Funding organisation</b>	Ministry of Economy, Industry and Competitiveness – through the State Research Agency (MINECO-AEI)
<b>National contact persons</b>	PhD. Alberto Abánades (Scientific issues) Daniel Ruiz (Administrative and technical issues) Telephone: +34 916037269 Contact email: <a href="mailto:era-energia@aei.gob.es">era-energia@aei.gob.es</a> Representative: Severino Falcón
<b>Funding commitment</b>	Maximum funding for the ACT call 2018: €0.45 million
<b>Anticipated number of projects with Spanish partners</b>	2 – 4
<b>Maximum funding per awarded project</b>	<p>The following funding limits are considered eligibility criteria. Proposals not respecting these limits can be declared ineligible.</p> <ul style="list-style-type: none"> <li>• Maximum per legal entity and proposal eligible for MINECO-AEI should not exceed €38.000 per year. If two or more legal entities participate in the same proposal, the MINECO-AEI part should not exceed €50.000 per year.</li> <li>• For entities carrying out experimental work, maximum per legal entity and per proposal eligible for MINECO-AEI should not exceed €50.000 per year. If two or more legal entities participate in the same proposal, the MINECO-AEI part should not exceed €62.000 per year.</li> <li>• If the transnational proposal is led by a PI eligible for MINECO-AEI a maximum of €8.000 per year in addition.</li> </ul> <p>Centres formed by different Spanish legal entities will be considered as a unique entity, and thus the maximum funding should not exceed the limits per proposal established above (for example mixed centres).</p> <p>The final funding will take into account the transnational evaluation of the collaborative proposal, the scientific quality of the Spanish group, the added value of the international collaboration, the participation of the industrial sector, and the financial resources available.</p>
<b>Eligibility of a partner as a beneficiary institution</b>	<p>Non-profit research organizations according to the APCIN call 2019 or its equivalent (<i>Acciones de Programación Conjunta Internacional 2019 o su equivalente</i>).</p> <p>Although enterprises will not be funded through the APCIN Call, the Spanish industrial sector is much welcome to participate in the transnational consortia using their own funds.</p> <p>The Spanish research groups that apply for funding to MINECO-AEI must comply with the requirements established by this transnational call and with the final rules on eligibility to be defined in the APCIN 2019 call (or its equivalent), to be published <a href="#">here</a>.</p>



<b>Eligibility of costs</b>	<ul style="list-style-type: none"> <li>- Personnel costs for temporary employment contracts (scholarships are not eligible).</li> <li>- Current costs, small scientific equipment, disposable materials, travelling expenses and other costs that can be justified as necessary to carry out the proposed activities.</li> <li>- <u>Indirect costs (overheads) or clinical trials (proofs of concept, proofs of principle) are not eligible for funding in the APCIN call.</u></li> </ul>
<b>Submission of the proposal at the national level</b>	<p>Yes.</p> <p><i>Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los Retos de la Sociedad, Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020.</i> <a href="#">Enlace a Plan Estatal</a></p> <p>The instrument for funding the Spanish groups will be the Spanish national Call on International Joint Programming Actions or its equivalent (<i>Acciones de Programación Conjunta Internacional o su equivalente</i>), which is expected to be launched in 2019 (APCIN 2019). Only as a reference, the beneficiaries are advised to read the call <a href="#">APCIN 2017</a>.</p> <p>The Spanish legal entities granted are obliged by the regulations established in this APCIN call (or its equivalent) and by the funding limits specified above.</p> <p>ACT Call will be managed by the <a href="#">Subdivisión de Programas Científico-Técnicos Transversales, Fortalecimiento y Excelencia</a>.</p> <p>The projects granted by the State Research Agency must be aligned with the main objectives described in the <a href="#">Programa Estatal</a>.</p>
<b>Submission of financial and progress reports at the national level</b>	Yes, scientific and financial reporting according to APCIN or its equivalent.
<b>Information available at</b>	<a href="#">MINECO-AEI webpage</a>

<p><b>Other</b></p>	<p><b>Additional eligibility criteria</b></p> <p><u>Mandatory:</u>  Spanish <u>Principal Investigators</u> <b>must be</b> eligible according to the APCIN 2019 call or its equivalent and must have experience as investigators in projects funded by <i>the Plan Nacional I+D+I 2008-2011</i>, the <i>Plan Estatal I+D+I 2013-2017</i>, ERC Grants, or European Framework Programmes or other relevant international programmes.</p> <p><u>Incompatibilities: These must be taken into account when participating in different ERA-Nets or other international initiatives.</u></p> <ul style="list-style-type: none"> <li>• <u>Principal Investigators</u> are not allowed to apply for funding in more than one proposal of this ERA-NET ACT call.</li> <li>• <u>Principal Investigators</u> will not be allowed to apply for funding in more than one proposal in the same APCIN call (or its equivalent).</li> <li>• <u>Principal Investigators</u> are not allowed to apply for funding in two consecutive APCIN calls (or their equivalent).</li> <li>• <u>Principal Investigators</u> must remain unchanged between the proposal to this transnational call and the National APCIN 2019 call (or its equivalent).</li> </ul> <p>The State Research Agency will avoid double funding (overlapping with other EU or National funding), and will not grant projects or parts of projects already funded.</p> <p><b>Mandatory acknowledgement</b>  Any publication or dissemination activity resulting from the granted projects must acknowledge the State Research Agency funding: “Project (reference nº XX) funded by the State Research Agency through APCIN (or its equivalent)”.</p>
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## Switzerland

<b>Country/Region</b>	Switzerland
<b>Funding organisation</b>	Swiss Federal Office of Energy (SFOE)
<b>National contact person</b>	<p>For general issues: Gunter Siddiqi, Tel: +41 58 462 5324  gunter.siddiqi@bfe.admin.ch</p> <p>For administrative issues: Men Wirz, Tel: +41 58 462 5597  <a href="mailto:men.wirz@bfe.admin.ch">men.wirz@bfe.admin.ch</a></p> <p><a href="http://www.bfe.admin.ch/pilotdemonstration">http://www.bfe.admin.ch/pilotdemonstration</a>  Program name and link; Pilot-, Demonstration- and Flagship Program  <a href="http://www.bfe.admin.ch/cleantech/">http://www.bfe.admin.ch/cleantech/</a>  Type of research funded: Pilot (TRL 4-7) and demonstration (TRL 7-9)</p>
<b>Funding commitment</b>	Up to € 1 million. Note that projects will be assessed according the SFOE's pilot-, demonstration- and flagship program.
<b>Anticipated number of projects with Swiss partners</b>	Not specified.
<b>Maximum funding per awarded project</b>	All projects selected are subject to the limitation imposed by the admission criteria and the available budget of the national funding program.
<b>Eligibility of a partner as a beneficiary institution</b>	No restrictions (any third party to the Swiss Confederation).
<b>Eligibility of costs</b>	Funding of Swiss participants is limited to 40% (in exceptional cases 60%) of the eligible project costs. Eligible projects costs cover only the additional project costs that cannot be amortized over the expected lifetime of the developed installation or solution. Additional projects costs are the additional project costs compared to the costs of implementing an equivalent, conventional technology or solution.

<p><b>Submission of the proposal at the national level</b></p>	<p>Yes.</p> <p>Full project proposals for Swiss funding must be submitted any time prior to the deadline for pre-proposals prescribed in this ACT call. Potential applicants for Swiss funding undergo a national evaluation that is entirely decoupled from the ACT proposal evaluation. Outcomes of the national evaluation take absolute precedence. Alignment with important dates related to this ACT call will not be guaranteed. The process is rigid and does not allow for flexibility.</p> <p>Applicants can only participate in the submission of an ACT full proposal, if they have received a positive funding decision from the Swiss Federal Office of Energy regarding the proposal that has been submitted at the national level of Switzerland.</p> <p>Full applications have to be submitted according to the application procedure specified at:  <a href="http://www.bfe.admin.ch/cleantech/06561/06568/index.html?lang=de">http://www.bfe.admin.ch/cleantech/06561/06568/index.html?lang=de</a></p> <p>Admission criteria include:</p> <ol style="list-style-type: none"> <li>1. Project topic contributes to increasing energy efficiency or use of renewable energy;</li> <li>2. High application and success potential;</li> <li>3. Project topic in line with the Swiss energy policy;</li> <li>4. Results are publically accessible and disseminated among interested circles.</li> </ol> <p>See the <a href="#">program directive</a> for the complete list of admission criteria.</p> <p>Expected deliverables of pilot- and demonstration program projects include:</p> <ol style="list-style-type: none"> <li>1. Proof of concept of facilities, systems and proposed solutions,</li> <li>2. Intermediate and final reports of individual projects providing details on technical feasibility,</li> <li>3. Operational achievements and project economics (particularly related to innovative energy technologies and installations) and</li> <li>4. Demonstrated knowledge transfer to target community providing details on individual measures that have been implemented.</li> </ol> <p>The SFOE does not claim any IPR. It is explicitly allowed to protect intellectual property as far as this does not block the dissemination of the results.</p>
<p><b>Submission of financial and progress reports at the national level</b></p>	<p>Yes, scientific and financial reporting according to program rules.</p>
<p><b>Information available at</b></p>	<p><a href="http://www.bfe.admin.ch/pilotdemonstration">http://www.bfe.admin.ch/pilotdemonstration</a></p>

## Turkey

<b>Country/Region</b>	Turkey
<b>Funding organisation</b>	The Scientific and Technological Research Council of TURKEY, (TUBITAK)
<b>National contact person</b>	Dr. Mehmet Ufuk Atay E-mail: <a href="mailto:ufuk.atay@tubitak.gov.tr">ufuk.atay@tubitak.gov.tr</a> Tel.: +903122981237 Website: <a href="http://www.tubitak.gov.tr">www.tubitak.gov.tr</a>
<b>National funding commitment</b>	€0.5 million in national funding,
<b>Maximum funding per awarded project</b>	~ €0.21 million (1.080.000 TL)+ overhead costs + other costs
<b>Eligibility of a partner as a beneficiary institution and eligibility of costs</b>	TÜBİTAK 1001 – Scientific and Technological Research Projects Funding Program rules are eligible  The organisations which are eligible for funding as well as the eligibility criteria for cooperation are listed in the national guidelines available via <a href="http://tubitak.gov.tr/en/funds/academy/national-support-programmes/content-1001-scientific-and-technological-research-projects-funding-program">http://tubitak.gov.tr/en/funds/academy/national-support-programmes/content-1001-scientific-and-technological-research-projects-funding-program</a>
<b>Submission of the proposal at the national level</b>	Successful proposals in the full proposal stage must resubmit their national partner application via online into the national electronic submission system.
<b>Submission of financial and progress reports at the national level</b>	Yes, scientific and financial reporting according to national criteria.
<b>Information available at</b>	<a href="http://tubitak.gov.tr/tr/destekler/akademik/uluslararasi-destek-programlari/icerik-era-net">http://tubitak.gov.tr/tr/destekler/akademik/uluslararasi-destek-programlari/icerik-era-net</a>
<b>Other</b>	We highly recommend contacting the NCP during the preparation of the project.

## United Kingdom

<b>Country/Region</b>	United Kingdom (UK)		
<b>Funding organisation</b>	The Department for Business, Energy and Industrial Strategy (BEIS)		
<b>National contact persons</b>	<table border="0"> <tr> <td>Mr Brian Allison Tel: +44 300 06 85358 Email: <a href="mailto:brian.allison@beis.gov.uk">brian.allison@beis.gov.uk</a> Website: <a href="http://www.gov.uk/beis">www.gov.uk/beis</a></td> <td>Miss Hannah Lord Tel: +44 300 06 85547 Email: <a href="mailto:hannah.lord@beis.gov.uk">hannah.lord@beis.gov.uk</a></td> </tr> </table>	Mr Brian Allison Tel: +44 300 06 85358 Email: <a href="mailto:brian.allison@beis.gov.uk">brian.allison@beis.gov.uk</a> Website: <a href="http://www.gov.uk/beis">www.gov.uk/beis</a>	Miss Hannah Lord Tel: +44 300 06 85547 Email: <a href="mailto:hannah.lord@beis.gov.uk">hannah.lord@beis.gov.uk</a>
Mr Brian Allison Tel: +44 300 06 85358 Email: <a href="mailto:brian.allison@beis.gov.uk">brian.allison@beis.gov.uk</a> Website: <a href="http://www.gov.uk/beis">www.gov.uk/beis</a>	Miss Hannah Lord Tel: +44 300 06 85547 Email: <a href="mailto:hannah.lord@beis.gov.uk">hannah.lord@beis.gov.uk</a>		
<b>Funding commitment</b> <b><u>UK Total = ~€7.41m</u></b>	<p>BEIS £5m (~ €5.7m)</p> <p>UK Natural Environment Research Council (NERC) £1m (~ €1.14m)</p> <p>UK Engineering and Physical Sciences Research Council (EPSRC) £0.5m (~ €0.57m)</p>		
<b>Anticipated number of projects with UK participation</b>	Up to 7 (due to additional funding from NERC and EPSRC for low TRL related projects associated with Mission Innovation).		
<b>Maximum funding per awarded project</b>	Only limited by available funding commitment from United Kingdom.		
<b>Eligibility of a partner as a beneficiary institution</b>	<p><b><u>BEIS eligibility</u></b></p> <p>All UK participants in a single project must be separate legal entities. UK companies must:</p> <ul style="list-style-type: none"> <li>• have been trading for at least 12 months before the closing date for applications</li> <li>• be VAT registered</li> <li>• be registered at Companies House</li> </ul> <p>Companies need to provide the following with the stage 1 application: evidence they have the resources and finances to undertake the project at proposal stage a copy of annual accounts for the last two years.</p> <p>Companies with fewer than 5 Full Time staff cannot lead a project, unless agreed prior to application.</p> <p><b><u>NERC and EPSRC eligibility</u></b></p> <p>UK Research Organisations (RO) must be eligible to hold NERC or EPSRC grants; i.e. be an approved UK Higher Education Institution (HEI), Research Council Institute (RCI) or Independent Research Organisation (IRO) eligible for Research Council funding.</p> <p>NERC and EPSRC funds will only be used to support those eligible to receive Research Council funding.</p>		

<p><b>Eligibility of costs</b></p>	<p>Grants will be provided under Article 25 of the EU State Aid General Block Exemption Regulation - <b>Aid for research and development projects</b> under the definition for <b>experimental development</b> (or industrial research if appropriate).</p> <p>Applicants must be able to provide evidence of private funding to cover the balance of the eligible project costs. Applicants should consult the Block Exemption guidance for eligible costs; claims under the UK grant must be for project costs incurred in the UK.</p> <p><b>UK: Sub-contracting</b></p> <p>Unless agreed otherwise:</p> <ul style="list-style-type: none"> <li>• Subcontracting is to be capped at a maximum of 20% of the UK budget.</li> <li>• All UK grant costs, including sub-contracts, should be incurred within the UK.</li> <li>• Project management costs cannot be sub-contracted.</li> </ul>
<p><b>Submission of the proposal at the national level</b></p>	<p>Please discuss with the National Contact (above). The National Contact point will ask for draft project proposals as soon as they become available. The project proposal from the whole consortia must have a separate appendix with total budget for United Kingdom partners broken down on cost and financing for all United Kingdom partners. State aid guidelines must be addressed along standard guidelines for</p>
<p><b>Submission of financial and progress reports at the national level</b></p>	<p>Yes, scientific and financial reporting according to national criteria. For successful projects this will be laid out in the Grant Offer Letter</p>
<p><b>Information available at</b></p>	
<p><b>Other</b></p>	<p>We highly recommend contacting the National Contact during the preparation of your project.</p> <p>NERC and EPSRC strongly encourage the participation of researchers within NERC <a href="#">remit</a> and EPSRC <a href="#">remit</a> under this call and emphasised as Priority Research Directions in the Mission Innovation CCUS Experts' Workshop Report and have allocated funding to ensure there is involvement across a range of projects.</p>

## United States of America

<b>Country/Region</b>	United States (US)
<b>Funding organisation</b>	Department of Energy-Office of Fossil Energy (DOE-FE)
<b>National contact person</b>	<p>Mr. Mark Ackiewicz (Director, CCUS R&amp;D) Tel: +1 301 903 3913 Email: <a href="mailto:mark.ackiewicz@hq.doe.gov">mark.ackiewicz@hq.doe.gov</a></p> <p>Mr. John Litynski (Carbon Capture Program Manager) Tel: +1 202 586 8087 Email: <a href="mailto:john.litynski@hq.doe.gov">john.litynski@hq.doe.gov</a></p> <p>Mr. Darin Damiani (Carbon Storage Program Manager) Tel: +1 202 287 5282 Email: <a href="mailto:darin.damiani@hq.doe.gov">darin.damiani@hq.doe.gov</a></p>
<b>Funding commitment</b>	US\$2 million (Equivalent to approximately 1.7 million €). Funding is split equally between carbon capture and carbon storage. US funding is available for this ACT call and also the open call. The exact split between the ACT Call and the open call will be decided based on the quality of all proposals submitted to the ACT Call and the open call.
<b>Anticipated number of projects with US participation</b>	Up to 4 (up to 2 projects in carbon capture, up to 2 projects in carbon storage)
<b>Maximum funding per awarded project</b>	Only limited by available funding commitment from United States
<b>Eligibility of a partner as a beneficiary institution</b>	Open to DOE national laboratory participants only
<b>Eligibility of costs</b>	Subject to DOE and FE requirements for national laboratory field work proposals (FWPs)
<b>Submission of the proposal at the national level</b>	Yes, in draft format prior to submission date. Purpose is to show alignment of the full proposal with DOE-FE goals and objectives. US participant must also submit a FWP, similar to other projects with DOE-FE. National lab-funded FWPs for ACT projects must show benefit/applicability to coal-fired power plants to be eligible for funding.
<b>Submission of financial and progress reports at the national level</b>	Yes, scientific and financial reporting according to standard DOE policy.
<b>Information available at</b>	
<b>Other</b>	Contact one of the national contacts if there are specific questions.

- US partners in an ACT project will face the same conditions and requirements typical for field work proposals with DOE.
- National lab-funded FWPs must show applicability toward coal-fired facilities to be eligible for funding.



## Annex 2: Template for pre-proposal

**Concise description of the project** (for small projects 10 pages for points 1 to 4 below, for large projects 20 pages)

*Please give an overview of the project, including:*

- a) Objectives and targets (against defined technology and market development needs)*
- b) Key activities (work programme, work packages and work distribution among partners, i.e. key activities and leading roles / major contributions of partners)*
- c) Expected results (innovation or innovation potential, contribution to achieving the ACT objective of accelerating and maturing CCS technology, etc.)*
- d) Added value through transnational cooperation for the whole project*

*Please also provide a full project title and an acronym.*

### **1. Objectives and challenges**

[ your pre-proposal text ]

### **2. Short description of your project including key activities**

[ your pre-proposal text ]

### **3. Expected results**

[ your pre-proposal text ]

### **4. Relevance to ACT and trans-national added value**

[ your pre-proposal text ]

### **5. Approximate projected costs in EUR**

[ table giving total costs and requested funding for each partner and the consortium as a whole, maximum one page , detailing also any other requested funding for the same work ]

- Please use attached table in Annex 4

### **6. Short description of partners involved**

[ maximum half a page per partner, no CV's required ]

### **7. Letters of Intent from each partner**

[ maximum two pages per partner ]

## Annex 3: Template for full proposal

- 1. Publishable summary of the project (max. 1 page)**
- 2. Scientific, technological and commercial objectives and challenge (max. 2 pages)**

*Give evidence relating to the scientific, technological and commercial objectives and challenges of the project, outlining:*

- *Overall aims and objectives of the projects,*
- *Key targets to be achieved in the project*
- *Technology Readiness Levels including a short justification*
- *Scientific, technical and commercial challenges*

- 3. Technical and scientific description of the project**

*Describe:*

- *State-of-the-art*
- *Innovation of your approach*
- *Technical milestones and expected results*
- *Methodologies and technologies utilised to obtain goals*
- *Recent research relevant to the project undertaken by the consortium partners*
- *Clear definition of the national subprojects (detailed description of activities performed in each country)*

- 4. Outline of Work Plan (page limits for 3./4. together: max. 30 pages, large projects may use up to 65 pages)**

*Please outline the following clearly:*

- *Project structure*
- *Individual work package description with person-months per work package and partner*
- *Milestones, deliverables and time schedule, including Gantt chart*
- *Role of each partner; relevant expertise, resources, manpower, costs*
- *Monitoring and management of the project*

- 5. Relevance to ACT objective of accelerating and maturing CCS technology and transnational added value (max. 2 pages)**

*Please outline:*

- *Relevance of the project to the ACT objective of accelerating and maturing CCS technology*
- *Scientific/technical/industrial/commercial expertise of the consortium partners which is relevant for the success of the project*
- *Value of national subprojects*
- *Added value of transnational cooperation*

## **6. Risks and mitigation measures (max. 2 pages)**

*Please outline for your project the most relevant risks (technical, economical, commercial, organizational and political), their severity, and preventive and mitigation measures.*

## **7. Status of Consortium Agreement (max. ½ page)**

*Give a brief outline of the consortium agreement. Include whether the Consortium Agreement is at the initial or final draft stage or is in the process of being signed. Give an indication as to the expected date of agreement signature.*

## **8. Further information**

### **a) Experience of participants (max. 1 pages per partner. In addition max. 4 CV's per partner. Max. 2 pages per CV)**

*Brief additional profile information (CVs, relevant professional experience etc.) of all partners (Principal investigators) together with lists of up to 5 recent publications, description of companies or institutions.*

### **b) Main facilities, equipment (max. ½ page)**

*If applicable, a description of significant facilities and large-scale equipment available to the consortium that is necessary to fulfil the aims of the project*

### **c) Table regarding project cost and requested funding**

*This table should give total costs and requested funding for each partner and the consortium as a whole. Any non-personnel line item of more than €50.000 requires an explanation. Also, additional (expected) sources of funding should be specified.*

*Please use the table in Annex 4. for budgeting*

### **d) Other further information (max. 2 pages)**

*Additional information relating to the project to be added here e.g. technical drawings, diagrams, charts etc.*

### **e) Letters of Intent (LoI) from each partner (max. 2 pages per partner)**

*Should express the partner's role and contribution in-cash and in-kind in the project.*