

FREQUENTLY ASKED QUESTIONS

CALL – COMPETITIVE LOW-CARBON ENERGY

GENERAL QUESTIONS

Q: Will open access be mandatory across Horizon2020 projects? Will the costs for open access publication be accepted as direct costs?

A: Open Access to peer reviewed publications is applicable to all beneficiaries in projects funded or co-funded under H2020.

There are two main routes towards open access:

a) Self-archiving (green open access) – The published article or the final peer-reviewed manuscript is archived (deposited) by the author in an online repository.

b) Open access publishing (gold open access) – In this model, the costs can usually be borne by the institution to which the researcher is affiliated, or by the funding agency supporting the research.

Costs relating to open access that result from research funded under H2020, incurred during the duration of an action, shall be eligible for reimbursement under the conditions of the grant agreement.

Q: In case one of partners in the consortium would be in possession of or file for an (European) patent, how will this be interpreted with respect to intellectual property rights?

A: If the patent is obtained before the project the intellectual property rights (IPR) would remain with the owner of the patent. IPR generated in a project is owned by the partner(s) who generated it. IPR rules are described in the model grant agreement. The consortium agreement will regulate the cases, which are not covered by the grant agreement.

Q: With respect to the verification of financial capacity of the project coordinator, when is a legal entity considered to be financially capable?

A: A tool is available at the participant portal:

<http://ec.europa.eu/research/participants/portal/desktop/en/organisations/lfv.html>

for applicants to simulate their financial viability. A guide will be available soon and published in the participant portal.

Q: When will the calls for the WP 2016-2017 be published?

A: The next work programme is planned to be published in July 2015.

PARTICIPATION

Can non-associated countries participate in Horizon2020 projects, and under which conditions?

A: Please refer to 'A. List of countries, and applicable rules for funding' of '18. General Annexes' to the Work Programme.

For demonstration projects, is it advisable that the industry is project coordinator?

A: This decision has to be taken by the proposal consortium, however in view of the future successful commercialisation of the technology, it would be advisable that industry has prominent role in the consortium.

Q: How can I find the right project partners?

A: If you need help to identify a potential partner with particular competences, facilities or experience, use the [partner search options](#) available in the Participants Portal.

You could also contact relevant [National Contact Point](#).

EVALUATION

Q. What will the "Impact" of a proposal be measured against, will any specific indicators be used?

A: The proposal will be measured against the expected impact(s) listed in the work-programme under the relevant topic. This is particularly important for stage 1 proposals of two-stage evaluation calls.

Later on, in stage 2, and in addition to the expected impact(s) listed in the work-programme, proposals will be assessed regarding enhancing innovation capacity and integration of new knowledge. This means strengthening the competitiveness and growth of companies by developing innovations that meet the needs of European and global markets; and, where relevant, by delivering such innovations to the markets. Other environmental and socially important impacts (not already covered above) should also be considered. Finally, the effectiveness of the measures proposed to exploit and disseminate the project results (including management of IPR) and to communicate the project will also be assessed.

Q: In a two-stage call, how much time will the successful participants in the first stage be given to prepare so that they meet the deadline for the second stage?

A: The minimum time that consortia will have is three months.

Q: Who will perform the selection and evaluation process?

A: The evaluation process is explained in the [Grants Manual - IV. From evaluation to grant signature](#).

QUESTIONS APPLYING TO MORE THAN ONE TOPIC

Q. Do proposals have to provide evidence that the technology is at a specific TRL level. Do simulations or conceptual descriptions/calculation count as experimental evidence?

A. The proposal will need to provide the evidence that the technology is at a specific TRL level. Simulations or conceptual descriptions/calculation are not experimental evidence. For example, a patent based only a conceptual description cannot serve as a proof of a given TRL level.

Some further clarifications on the TRL levels mentioned in the call:

At TRL 2, the technology concept, its application and its implementation have been formulated. The development roadmap is outlined. Studies and small experiments provide a "proof of concept" for the technology concepts.

TRL 3 means that the first laboratory experiments have been completed. The concept and the processes have been proven at laboratory scale, table-top experiments.

At TRL 4 a small scale prototype development unit has been built in a laboratory and controlled environment. Operations have provided data to identify potential up scaling and operational issues. Measurements validate analytical predictions of the separate elements of the technology. Simulation of the processes has been validated.

At TRL 5 the technology, a large scale prototype development unit, has been qualified through testing in intended environment, simulated or actual. The new hardware is ready for first use. Process modelling (technical and economic) is refined. LCA and economy assessment models have been validated. Where it is relevant for further up scaling the following issues have been identified: health & safety, environmental constraints, regulation, and resources availability.

At TRL 6, the components and the process, the prototype system, have been up scaled to prove the industrial potential and its integration within the energy system. Hardware has been modified and up scaled. Most of the issues identified earlier have been resolved. Full commercial scale system has been identified and modelled. LCA and economic assessments have been refined.

At TRL 7, the technology has been proven to work and operate a pre-commercial scale – a demonstration system. Final operational and manufacturing issues have been identified. Minor technology issues have been solved. LCA and economic assessments have been refined.

At TRL 8, the technology has been proven to work at a commercial level through a full scale application. All operational and manufacturing issues have been solved.

TRL 9 means that the technology has been fully developed and is commercially available for any consumers.

Q. Are proposals expected to have activities or work package on manufacturing?

A. No, the proposals are not required to do so. However, they need to consider the current Manufacturing Readiness Level (MRL) and the activities needed to keep the MRL aligned with the future advances in the TRL of the proposed technology solution in order to ensure the potential for exploitation.

Q. In some topics, there are different technology-specific challenges for 2014 and for 2015, however in others, the text is the same. When the text is the same, is it anticipated that the text will remain the same or is it anticipated that the text will be updated in an amendment of the work programme? If it will remain the same, then is there nevertheless an expectation that there will be a difference between proposals received in 2014 and 2015 – for example in terms of higher TRLs or another aspect? If there is no difference, will there not be several (many) unfunded proposals from the 2014 call being simply upgraded according to the evaluation and re-submitted in the 2015 call?

A. No substantial changes are expected to be made to the texts of the work programme for 2015 in a possible amendment. Therefore, where the technology-specific challenges are repeated in 2014 and in 2015, there is indeed a possibility that a proposal not succeeding in the 2014 call is resubmitted in the 2015 call.

Q: What is the expected project duration?

A: There are no explicit indications in the work programme, because the optimal time depends on each project proposal. The consortium should consider when deciding on the duration of the project that the length of time foreseen is enough to achieve the objectives of the project in the most efficient way taking into account the potential risks

LCE 1 - 2014: New knowledge and technologies

Q. Are proposals on fuel cells and hydrogen eligible to apply?

A. The Fuel Cells and Hydrogen Joint Undertaking will publish a separate work programme in 2014, which covers the majority of the research activities on fuel cells and hydrogen. Some topics inside the Energy challenges work programme may be open for fuel cells and hydrogen, where indicated. Topic LCE 1 explicitly excludes research activities aimed at fuel cell and hydrogen, however, when hydrogen is only an element of an overall process aiming at an innovative energy carrier, it could be considered eligible.

LCE2, LCE 3

Q. Which are the global challenges mentioned in the specific challenge section of topic LCE 2 and LCE 3?

A. The global challenges are outlined in the introduction to the Renewable electricity and heating/cooling section. Namely:

- a) Technology performance needs to increase further and cost of equipment to decrease resulting in a decrease of the overall cost of renewable energy production in order for renewable energy to be attractive in the market and cover a large part of the final energy consumption by 2050.
- b) Resource efficiency and environmental impacts need to be addressed taking a life-cycle perspective.
- c) In order to increase the performance of the energy system as a whole, the particular renewable energy conversion device or renewable energy system will have to address a number of enhancements in delivering energy to the increasingly smarter grid.
- d) Renewable energy technology supply chains and manufacturing processes able to compete globally need to be developed and consolidated.

Q. It appears that the call only focuses on offshore wind energy. Will proposals focusing on on-shore wind energy be eligible?

Proposals in 2014 under LCE 2 and LCE3 can be focused challenges for on-shore wind. In particular, the following technology specific challenges could be addressed with both on-shore and offshore perspective:

LCE 2, 2014: i) control strategies and systems for new and/or large rotors and wind farms (on- and offshore);

LCE 3, 2014: demonstrating and testing of new nacelle and rotor prototypes - there is a need for demonstration and testing of new nacelle and rotor prototypes with a significant lower mass and material intensity and applicable to several types of large-scale wind turbines.

In 2015, the wind technology specific challenges in LCE 2 and LCE 3 are indeed only for offshore wind.

LCE 2 – 2014/2015: Developing the next generation technologies of renewable electricity and heating/cooling

Q. Will there be specific requirements to projects, which are considered contributing to the objectives of the SPIRE PPP?

A. No. However, these projects may be asked to present their results or participate in events organised by the SPIRE PPP.

Q. Whereas the header of the 2015 LCE2-g-ii technology-specific challenge reads: 'Improving efficiency of low emission biomass CHP systems while widening the feedstock base', the text calls for work on residential-scale boilers for heat applications. Are proposals expected to develop CHP systems or heating applications?

A. The technology specific challenge in 2015 is to develop new flexible and robust residential-scale boilers for *heat* applications.

LCE 8 - 10

Q. Are proposals on fuel cells and hydrogen eligible to apply?

A. As indicated in the introductory statement for this group of topics, indirect electricity storage using hydrogen is indeed eligible. This also includes the blending of hydrogen into the natural gas network.

However, the R&D on production of hydrogen is not an eligible activity for this group of topics, and neither is R&D on fuel cells.

LCE 11 – 2014/2015: Developing next generation technologies for biofuels and sustainable alternative fuels

Q. Can a proposal of algal feedstock considered eligible for LCE 11?

A. Yes, in principle, a proposal on algal feedstocks would be in scope so long as it meets all other requirements of the call.

LCE 14 – 2014/2015: Market uptake of existing and emerging sustainable bioenergy

Q. What do you mean by 'other wastes' in the bullet point "Removing non-technical barriers to widespread production and use of biogas/biomethane from manure and other wastes as one of the most sustainable fuels available today for use in transport and for incorporation into the grid".

A. In this context 'other wastes' can be any type of organic waste, i.e., this could be agricultural residues, forestry residues, the organic fraction of municipal waste, etc.

LCE 15 – 2014/2015: Enabling decarbonisation of the fossil fuel-based power sector and energy intensive industry through CCS

Q. The topic mentions 'Nonetheless this does not preclude submission and selection of proposals requesting other amounts'. Is this valid for the industrial applications only or also for the storage pilots?

A. The sentence is also valid for the storage pilots.

LCE 18 – 2014/2015: Supporting Joint Actions on demonstration and validation of innovative energy solutions

Q. How can we submit proposals to the joint calls under these ERA-NETs?

A. This topic is restricted to the entities eligible in ERA-NET Co-fund actions, i.e. programme managers and programme owners. The joint calls are managed nationally, i.e. by the members of the consortium and not by the European Commission. Therefore, any submission to the joint calls has to be done via the national funding agencies participating in the respective ERA-NET.

LCE 20 – 2014: The human factor in the energy system

Q. What sort of actions can be chosen for the first two subtopics (bullet points) mentioned in the scope?

A. The topic allows both for Research and Innovation Actions (R&IAs) and for Coordination and Support Actions (CSAs). The choice of the appropriate action type depends on the nature of your project. The first two subtopics (bullet points) on awareness, perceptions, behaviour and attitudes, and on public engagement could be addressed both by R&IAs and by CSAs.

LCE 21 – 2015: Modelling and analysing the energy system, its transformation and impacts

Q. What sort of energy technologies may be covered?

A. Projects under this topic should contribute to better understand the options for a transition to an efficient low carbon energy system and to strengthen the knowledge base for related policy decision. Thus proposals can address all energy technologies relevant for the energy system, including nuclear, fossil, hydrogen/fuel cells. However, proposals exclusively covering one or several of these 3 areas will not be funded.

LCE 22 – 2014: Fostering the network of National Contact Points

Q. Can private organisations giving support to programme applicants participate in this topic?

A. LCE 22 is only open to legal entities, which have been appointed as official National Contact Points by the relevant national authority of an EU Member- or Associated State and, in duly justified cases, of third countries. Other entities are not eligible.