

We're here to help you

The EU Energy Focus service is a free, Government-funded service that aims to ensure that UK companies, research institutions and other organisations are well informed and have every chance of success in applying for and securing European funding for energy-related projects. Our services include one-to-one discussion of proposal ideas, webinars on key subjects and review of draft proposals. Through this bulletin we aim to provide you with information on sustainable energy policy and funding in Europe and in the UK.

To enable us to tailor our communications to your needs, we ask you to confirm your contact details and inform us of your interest areas via our contacts survey at <https://www.surveymonkey.co.uk/r/EUEFcontacts>

Statement on UK eligibility for EU Horizon 2020 funding following the referendum decision

Recognising the importance of science and innovation to society, productivity and economic competitiveness, the government has provided reassurance to UK participants of the European Union's Horizon 2020 Programme with a commitment to safeguard funding for research and innovation projects.

The Treasury has confirmed that it will underwrite funding for approved Horizon 2020 projects applied for before the UK leaves the European Union. **As a result, British organisations have certainty over future funding and should continue to bid for Horizon 2020 Calls while the UK remains a member of the EU.** The Treasury will underwrite the payment of such awards, even when specific projects continue beyond the UK's departure from the EU.

We are working with the Energy National Contact Points from the other European countries that participate in Horizon 2020 to ensure the above message is being disseminated to relevant organisations so that UK organisations' continued eligibility for funding is widely known to allow consortia to be maintained and built. **Please let us know if you do come across European organisations that are not aware of the Treasury announcement.**

The position regarding **structural funds** is as follows - all structural and investment fund projects signed before the Autumn Statement on 23rd November 2016 will be fully funded, even when these projects continue beyond the UK's departure from the EU. The Treasury is working with departments, Local Enterprise Partnerships and other relevant stakeholders to implement arrangements for those structural fund projects that are signed after the Autumn Statement but while the UK remains a member of the EU. These projects will need to address UK priorities and satisfy value for money criteria. More information can be found at <https://www.gov.uk/government/news/further-certainty-on-eu-funding-for-hundreds-of-british-projects>

Horizon 2020 – see page 10 for background

Horizon 2020 Work Programme drafting

Drafting of the Horizon 2020 Energy Work Programme for 2018-20 is ongoing. The Commission is consulting with Member States representatives on the 2018-2020 funding priorities. The UK Technology Stakeholder Groups (details on page 4) are currently being consulted on the draft 2018-2020 Horizon 2020 documentation. Please contact the EU Energy Focus team if you would like to contribute your views and help influence the Work Programme content to include UK strengths and interests.

Further 2017 Horizon 2020 Energy Call Opens

The final 2017 Horizon 2020 Energy Call for Proposal opened on 11th May 2017 with a **total budget of €105M**. The Commission will fund demonstration projects in PV, concentrated solar power, solar heat, offshore wind, ocean energy, geothermal energy and biofuels. The deadline for submitting proposals is **7th September 2017**. The table below shows the topic areas and the budgets available for these topics.

Budget	€105M
Call topics (funding action), expected EU funding per project	Indicative budget (M€)
<u>LCE-10-2017</u> : Reducing the cost of PV electricity (IA), €7M to €10M	10
<u>LCE-11-2017</u> : Near-to-market solutions for reducing the water consumption of CSP Plants (IA), €10M to €12M	12
<u>LCE-12-2017</u> : Near-to-market solutions for the use of solar heat in industrial processes(IA), €5M to €8M	8
<u>LCE-14-2017</u> : Demonstration of large >10MW wind turbine (IA), €20M to €25M	25
<u>LCE-16-2017</u> : 2nd Generation of design tools for ocean energy devices and arrays development and deployment (IA), €5M to €7M	7
<u>LCE-17-2017</u> : Easier to install and more efficient geothermal systems for retrofitting buildings (IA), €5M to €8M	8
<u>LCE-18-2017</u> : EGS in different geological conditions (IA), €6M to €10M	10
<u>LCE-19-2017</u> : Demonstration of the most promising advanced biofuel pathways (IA), €10M to €15M	15
<u>LCE-20-2017</u> : Enabling pre-commercial production of advanced aviation biofuel (IA), €5M to €10M	10

Please contact the EU Energy Focus team if you are interested in submitting a proposal for any of these topics.

Support available for H2020 June 2017 deadlines

The 2017 H2020 Call in the area of energy efficiency has a deadline of **7th June 2017**. The table below shows the topic areas and the budgets available for this Call.

The EU Energy Focus team will be reviewing draft proposals for these topics throughout May. Please contact the team by email if you would like to book a proposal review slot.

Webinars, presented by the Commission project advisors, on topics EE19, 22, 23 and 24 took place on 22nd March. Recordings of the webinars can be found at

<https://ec.europa.eu/easme/en/news/webinars-public-procurement-innovative-solutions-and-innovative-financing-energy-efficiency>

Budget	€55M
Call topics (funding action), expected EU funding per project	Indicative budget (M€)
<u>EE-02-2017</u> : Improving the performance of inefficient district heating networks (CSA), €1M to €2M	4
<u>EE-06-2017</u> : Engaging private consumers towards sustainable energy (CSA), €1M to €2M	5
<u>EE-09-2017</u> : Engaging and activating public authorities (CSA), €1M to €2M	7
<u>EE-11-2017</u> : Overcoming market barriers and promoting deep renovation of buildings (CSA), €1M to €2M	8
<u>EE-14-2017</u> : Construction skills (CSA), €0.5M to €1M	
<u>EE-15-2017</u> : Increasing capacities for actual implementation of energy efficiency measures in industry and services (CSA), €1M to €2M	11
<u>EE-16-2017</u> : Effective implementation of EU product efficiency legislation (CSA), €1M to €2M	
<u>EE-18-2017</u> : Energy efficiency of industrial parks through energy cooperation and mutualised energy services (CSA), €1M to €2M	
<u>EE-19-2017</u> : Public Procurement of Innovative Solutions for energy efficiency (PPI), €1M to €2M	4
<u>EE-23-2017</u> : Innovative financing schemes (CSA), €1M to €2M	8
<u>EE-24-2017</u> : Making the energy efficiency market investible (CSA), €1M to €1.5M	
<u>EE-22-2017</u> : Project Development Assistance (CSA), €0.5M to €1.5M	8

UK proposal development workshop for Energy Efficiency topics, London, 9th March 2017

The EU Energy Focus team in conjunction with the Enterprise Europe Network and Knowledge Transfer Network delivered a proposal development workshop covering many of the topics listed in the table above. The presentations from the event can be downloaded at <http://euenergyfocus.co.uk/horizon-2020/h2020-proposal-development-workshop>

Profiles for organisations interested in leading or participating in proposals were displayed at the event and can now be viewed on the event page linked above.

Call summary document: the priorities and deadlines for all of the 2017 Energy Calls can be viewed in our Call summary document at http://docs.euenergyfocus.co.uk/H2020_Energy_Call_summary_2017.pdf

Support for UK organisations: We provide a free and confidential service to UK organisations on European funding for energy projects. We can help to facilitate UK involvement in these major European collaborative projects. We are available to discuss proposal ideas and review proposals.

Energy efficiency and urban mobility: €30M for project development assistance

On 2nd May 2017 the European Commission and the European Investment Bank (EIB) signed a new delegation agreement reinforcing the ELENA (European Local Energy Assistance) facility. ELENA provides grant funding to support the preparation of large-scale investment programmes in the area of energy efficiency, distributed renewables, and sustainable urban transport. The new agreement concerns a budget of €30M, of which €20M will support the preparation of energy efficiency and distributed renewable energy projects, and €10M will be dedicated to sustainable urban transport and mobility projects. Established in 2009, the ELENA facility has awarded around €100M of EU support triggering an estimated investment of around €4B on the ground. More information on the funding available can be found at <http://www.eib.org/infocentre/press/news/all/energy-efficiency-and-urban-mobility-eur-30-million-for-project-development-assistance.htm>

Fuel Cell and Hydrogen Call for Proposals

2017 Call for Proposals now closed

The 2017 Call for Proposals closed on 20th April 2017. Results are expected to be communicated to coordinators by 20th September 2017.

Horizon Prizes for energy innovation

The European Commission has launched three Horizon 2020 energy prizes, which will encourage innovations and finding solutions in the areas of great importance to European citizens, culture and health, and by this contribute to one of the key challenges of Energy Union, which is to put citizens at its core. These prizes will reward innovative approaches to integrating solar energy into historical buildings, using renewable energy in hospitals, and developing products that help cut emissions by reusing CO₂. **The total value of the prizes is €3.25M.** More information can be found at <https://ec.europa.eu/research/horizonprize/index.cfm>

UK Technology Stakeholder Groups

Now is a good time for you to consider joining one of our sector stakeholder groups. These continue to play an important role in helping to shape UK input to discussions on future European energy technology development spending priorities. But in parallel, in the light of the EU referendum result, they will increasingly now focus on providing input to the UK's new, wider international energy innovation engagement priorities that are currently being developed and other possible activities related to international collaboration.

There are UK Stakeholder Groups for bioenergy, solar, wind, CCS, smart cities, smart grids, ocean and a group on energy efficiency is in the process of being set-up. Stakeholder group membership offers an opportunity to help influence policy at EU and UK levels; and to build your networks and knowledge to take advantage of the resulting opportunities.

It's important to have representative groups made up of industry, academia and the public sector to help ensure feedback matches as closely as possible to UK priorities, strengths and interests. This should give UK organisations the best possible chance of success in securing EU funding and activity, along with wider international business opportunities against increasingly tough competition. The groups are currently being consulted on the draft 2018-2020 Horizon 2020 funding priorities.

We are interested in hearing from organisations, particularly trade associations or industry, about joining the stakeholder groups. Please contact the EU Energy Focus team if you would like more information or would like to explore joining.

European Developments in the energy sector

OCEANERA-NET Cofund Joint Call 2017 now open

The latest Call for Proposals from the OCEANERA-NET Cofund was launched on 20th March 2017. A €17M fund has been created through the new OCEANERA-NET Cofund project, which brings together a consortium of governments and agencies from Spain, the Basque Country (Spain), Brittany (France), Pays de la Loire (France), Scotland (UK), Sweden and Ireland, with funding from the European Union's Horizon 2020 Programme. The Cofunded Joint Call 2017 will provide funding to companies and research organisations to deliver collaborative projects to demonstrate and validate ocean energy technologies. The pre-proposal deadline is **26th May 2017**. The Call documentation can be downloaded at <https://www.oceancofund.eu/joint-calls>

MaRINET2 opens Call for free access to testing facilities

On 10th April the MaRINET2 project opened a Call for applications with a deadline of **20th May 2017**. Successful applicants will receive free access to a world-leading network of testing and research infrastructures. The Call is open to offshore energy technology developers, including wind, wave and tidal energy at system and component level.

MaRINET2 is a €10.5M project funded by the Horizon 2020 programme, and coordinated by the MaREI (Marine and Renewable Energy Ireland) Centre. The project will accelerate the development of offshore renewable energy technologies by providing free-of-charge access to a network of 57 research facilities across Europe.

Details on eligibility criteria, how to apply, available testing infrastructures etc can be found at <http://www.marinet2.eu/>

Call for experts in the field of financial readiness of projects

The Innovation and Networks Executive Agency (INEA) is looking for new experts to assess the financial readiness of project proposals submitted for EU funding. They are seeking experienced financial expert with skills in one or more of these fields: financial due diligence, credit application review, financial structuring or bankability analysis, transport/infrastructure financing, Public-Private Partnership or concession, asset-based, project-based or structured finance. The deadline for registration as an expert is **20th May 2017**. More details can be found at <https://ec.europa.eu/inea/en/connecting-europe-facility/cef-transport/sign-expert>

Launch of report on commercial scale feasibility of clean hydrogen

The European Technology Platform for Zero Emission Fossil Fuel Power Plants (ZEP) has published a new report "Commercial Scale Feasibility of Clean Hydrogen". The report investigates the potential of decarbonised hydrogen produced through CCS on natural gas ("clean"/"low GHG emissions" hydrogen) and concludes that hydrogen has the potential to decarbonise a number of different industries and play a key role in Europe's energy transition. The report and accompanying press release can be downloaded at <http://www.zeroemissionsplatform.eu/news/news/1669-launch-of-zep-report-commercial-scale-feasibility-of-clean-hydrogen.html>

Call for Expressions of Interest - Clean energy technology studies

The European Commission Joint Research Centre has launched a Call for Expressions of Interest for clean energy technology studies. The Call for Expressions of interest is divided into 3 fields:

- assessment of the status of development of energy supply technologies and their trend including wind, PV, ocean, geothermal, hydropower, CCS, hydrogen and fuel cells and many others
- integration of energy supply technologies in the energy system
- assessment of technology markets and industrial development intelligence for energy supply technologies

As a first step, interested parties are invited to submit an expression of interest by providing their full contact details and by listing the specific fields of interest. More details can be found at

<https://web.jrc.ec.europa.eu/callsfortender/index.cfm?action=app.tender&id=3519&error=nochoises>

UK news from the energy sector

Energy Catalyst Round 5 now open

The Department for International Development, the Department for Business, Energy & Industrial Strategy and the Engineering and Physical Sciences Research Council are to invest up to £13 million in innovation projects to address the global need for clean, affordable and secure energy. The aim of the Energy Catalyst competition is to support highly innovative, market-focused energy solutions in any technology or sector or international market. Proposals must address all 3 elements of the energy trilemma: cost, emissions, and security of supply. The deadline for registration is midday (BST) on **21st June 2017** and the application deadline is midday (BST) on **28th June 2017**. Details of the competition can be found at <https://www.gov.uk/government/publications/funding-competition-energy-catalyst-round-5>

Funding available for control systems for wave energy generation

Organisations can apply for up to £47,000 to develop advanced control systems for cost-effective wave energy generation technology. This funding Call is for feasibility study proposals. It is the first of three stages in the Wave Energy Scotland (WES) control systems programme. Up to 100% of project costs are available via a research and development contract. WES will invest further funding in successful projects which progress to design, development and demonstration stages. The deadline for applications is at midday on **12th June 2017**. More details including of a brokerage event on 12th May in Edinburgh can be

found at <https://www.gov.uk/government/news/control-systems-for-wave-energy-generation-apply-for-funding>

Shanghai-UK industrial challenge programme

UK businesses can apply for a share of £5 million for projects with partners from Shanghai municipality, People's Republic of China. Innovate UK and the Science and Technology Commission Department of Shanghai Municipality, will both invest in collaborative research and development (R&D) projects. Up to £5 million is available for UK partners from Innovate UK. The Science and Technology Commission Department of Shanghai Municipality will allocate funding for R&D performing Shanghai-registered companies.

The aim of this competition is to stimulate economic growth in China and the UK through projects in one of the following two areas:

- future cities: addressing the challenges brought on by rapid urbanisation, demographic and social change, resource scarcity and climate change
- transformational or disruptive innovation leading to novel, new products, processes or services drawn from any technology, engineering or industrial area. There is particular interest in the areas of healthcare and life sciences, advanced manufacturing and energy/green technology. Projects should lead to a significant return on investment and have a clear and anticipated impact on business growth

The programme is expected to fund around ten projects across the two areas. Projects should last up to 36 months. The deadline for registration is midday (BST) on **21st June 2017** and the application deadline is midday (BST) on **28th June 2017**. More information can be found at <https://www.gov.uk/government/publications/funding-competition-shanghai-uk-industrial-challenge-programme>

Jiangsu-UK industrial challenge programme

UK businesses can apply for a share of £5 million to carry out projects with partners from Jiangsu province, People's Republic of China. Innovate UK and Jiangsu Science and Technology Department will both invest in collaborative research and development (R&D) projects. Up to £5 million is available for UK partners from Innovate UK. Jiangsu Science and Technology Department will allocate funding for Jiangsu partners.

The aim of this competition is to stimulate economic growth in China and the UK through projects in one of the following areas:

- innovation in infrastructure systems that address the challenges faced by infrastructure owners, cities, towns and users
- transformational or disruptive innovation leading to novel, new products, processes or services drawn from any technology, engineering or industrial area

The programme is expected to fund around ten to 15 projects across the two areas. Projects should last up to 24 months. The deadline for registration is midday (BST) on **21st June 2017** and the application deadline is midday (BST) on **28th June 2017**. More information can be found at <https://www.gov.uk/government/publications/funding-competition-jiangsu-uk-industrial-challenge-programme>

Accelerating innovation with public and private investment

The investment accelerator pilot by Innovate UK will provide UK companies with simultaneous grant funding and venture capital investment for early stage projects worth up to £8.5 million. This competition aims to bring private investors into Innovate UK grant-funded companies earlier. It should give applicants greater confidence that investment will continue, remove the need to chase additional investment and match funding, and award direct access to commercial acumen and market opportunities.

There is £3 million of grant funding and £1.25 million of private equity investment for infrastructure systems projects including:

- smart infrastructure
- energy
- urban living
- connected transport

A further £3 million of grant funding and £1.25 million of private equity investment is available for projects related to health and life sciences. This includes:

- agriculture
- biosciences
- health

Innovate UK is looking to fund innovative high-risk projects and invest in companies that have real potential for growth. Single small and medium-sized enterprises can be awarded full project costs up to £150,000 for early stage feasibility studies. The competition opened on **8th May 2017**, and the deadline for registration is **28th June 2017**. More details can be found at

<https://www.gov.uk/government/publications/funding-competition-investment-accelerator-pilot>

Forthcoming events

Information events on Marie Skłodowska-Curie Actions, Liverpool, London and Bristol (UK) May 2017

In its capacity as UK National Contact Point for the Marie Skłodowska-Curie Actions (MSCA) in Horizon 2020, the UK Research Office is holding several events about MSCA grants. Details of the events can be found at <https://www.ukro.ac.uk/mariecurie/Pages/events.aspx>

Information and proposal writing events on European Research Council Advanced Grants and Proof of Concept Grants, London and Manchester (UK) 18th and 24th May 2017

In its capacity as UK National Contact Point for the European Research Council, the UK Research Office is holding Information and Proposal Writing Events in London and Manchester in May. Details of the events can be found at <https://www.ukro.ac.uk/erc/Pages/events.aspx>

Vision2020: Opening Energy Horizons, Brussels (Belgium) 22nd and 23rd May 2017

The main purpose of this two-day event is to bring together academics, researchers and colleagues from business and industry working in the Energy field, to form new collaborations across the whole sector in readiness for the forthcoming Horizon 2020 Energy Work Programme (2018 – 2020). On the first day, representatives from the European Commission, industry and academia will discuss the significance and importance of integrating social sciences and humanities in energy-related research, and showcase examples of best practice in existing Horizon 2020 funded Energy projects. On the second day, the focus will move to the four proposed Call areas in the 2018 – 2020 Scoping Paper, to identify common areas of interest and support emerging collaborations. More details can be found at <http://tinyurl.com/lc84p54>

European Sustainable Energy Week (EUSEW) Policy Conference, Brussels (Belgium) 20th to 22nd June 2017

The Policy Conference takes place during EUSEW (19th to 25th June 2017). The conference is an important European conference dedicated to sustainable energy policy issues. Sessions are organised by the European Commission and energy stakeholders and cover new policy developments, best practices and sustainable energy ideas, while networking events forge alliances. More information can be found at <http://www.eusew.eu/about-conference>

Background to the EU energy innovation funding programmes

Horizon 2020

Horizon 2020 (H2020) is the European Commission's research and development funding programme. The first H2020 Calls were launched on 11th December 2013. The total budget allocation is understood to be around €70.2B. Energy is likely to receive 7.7% of the available budget for H2020, over €5B for the period 2014-20. This compares to €2.35 billion under the previous programme, Framework Programme 7. More information can be found at <http://ec.europa.eu/programmes/horizon2020/>

The SET-Plan

The Strategic Energy Technology Plan (SET-Plan) outlines, from a European perspective, what needs to be done in terms of technology development, demonstration and deployment, to achieve the EU's 2020 energy and emission targets and its 2050 vision. This includes ensuring security of energy supplies and retaining the EU's competitiveness in world markets. In terms of status, it is a statement of EU energy technology policy, endorsed by Ministers and the Energy Council. The Plan puts a strong emphasis on the pooling of national innovation efforts into wider European co-operation.

In addition to supporting the development and deployment of energy efficiency technologies, the SET-Plan's priorities are split between a group of technologies identified as most likely to enable the EU to achieve its 2020 targets, and those that are important for it to achieve its 2050 vision. The technologies identified for 2020 are: 2nd generation biofuels; CO2 capture, transport and storage; wind, particularly off-shore wind; photovoltaic and concentrated solar power; smart grids; more efficient energy conversion and end-use devices and systems in buildings, transport and industry, for example poly-generation and fuel cells; and nuclear fission, including long-term waste management solutions. The technologies currently further away from deployment, but expected to have an important role in the EU meeting its 2050 vision are: energy storage; hydrogen fuel cell vehicles; generation IV nuclear fission; fusion; trans-European energy networks; and new technologies for energy efficiency, including materials, nano-science, information and communication, bioscience and computation. These priorities will be reviewed as necessary in line with technology developments to ensure that they remain the most appropriate and they will increasingly drive decisions on what technologies receive support under H2020 Energy grant funding and other relevant EU programmes. <http://setis.ec.europa.eu/>