



## C-ENERGY 2020

*The EU-funded Project of the Energy NCP Network*

C-ENERGY 2020 is a 48-month Coordination and Support Action that receives funding from "HORIZON 2020", the EU Framework Programme for Research & Innovation 2014-2020. The Project will conclude on the 30<sup>th</sup> of November 2018.

The C-ENERGY 2020 project aims at:

- ✓ *Ensuring that Energy National Contact Points provide Horizon 2020 applicants with **high quality services** according to the standards set by the European Commission;*
- ✓ *Lowering entry barriers for Energy National Contact Points approaching EU R&I Framework Programmes for the first time;*
- ✓ *Consolidating the network of Energy National Contact Points across Europe and beyond.*

## Contents

...

C-ENERGY 2020

H2020 Energy WP 2018-2020

EU Energy Policy

HORIZON EUROPE

EC's H2020 related Publications

Calendar of Events

## C-ENERGY 2020 Consortium

The Consortium consists of 16 partners based in EU Member States and 2 partners from Countries Associated to HORIZON 2020. It covers different geographical areas of Europe and beyond: from Scandinavia to the Mediterranean area and from the Iberian peninsula to the central and eastern European countries.

Within the consortium, each partner shares the purpose of setting up a network of Energy National Contact Points (NCPs) with the aim of supporting national applicants (researchers, enterprises, universities, etc.) and raising the average quality of proposals submitted under [HORIZON 2020](http://horizon.eu) and other related programmes.

For more information you can visit the project's website:

<http://c-energy2020.eu/>

### **Updated Horizon 2020 Work Programme 2018-2020: Secure, clean and efficient energy**

On 27 October 2017, the European Commission presented the final Work Programme for Horizon 2020, covering the budgetary years 2018, 2019 and 2020. On July 2018, the "**Secure, Clean and Efficient Energy**" **Societal Challenge of Horizon 2020** that relates to 2019 (topics, dates, budget) has

been updated. The changes relating to this revised part are explained on the Participant Portal. The parts that relate to 2020 are provided at this stage on an indicative basis. These Work Programme parts will be decided during 2019.

**Download the updated "Secure, clean and efficient energy" Work Programme 2018-2020**

### **Horizon 2020 Energy Info Day 2018**

The **Horizon 2020 Energy Info Day 2018** will take place on 5 October 2018, in Brussels. The info day will cover the following H2020 calls for funding:

1. **Smart citizen-centred energy system** (budget: €130 m in 2019)
2. **Smart Cities and Communities** (budget: €83 m in 2019)

It will also give an overview on the application and evaluation process, and will offer a recap on lessons learnt from previous evaluations, including tips for writing a good proposal. Two funded projects will share their experience.

**Register for the info day [here](#).**



The info day will be webstreamed and recordings will be available after the event. The link will be published before the event.

### **H2020 Energy Brokerage Event**

A **Brokerage Event** will be held in parallel to the **Horizon 2020 Energy Info Day 2018** of the European Commission. The event will be organized by the C-Energy 2020 and target a wide spectrum of companies, universities and researchers from Europe and beyond to foster the creation of consortia for the upcoming Horizon 2020 Energy Calls 2019.

**A separate [registration](#) for the Brokerage Event is mandatory.**

## Selected H2020 Energy Open Calls for Proposals

Call identifier	Topic	Budget	Deadline
<a href="#">LC-SC3-ES-1-2019</a>	Flexibility and retails market options for the distribution grid	€37.3 M	5/2/2019
<a href="#">LC-SC3-ES-2-2019</a>	Solutions for increased regional cross-border cooperation in the transmission grid	€25 M	5/2/2019
<a href="#">LC-SC3-ES-6-2019</a>	Research on advanced tools and technological development	€28.35 M	5/2/2019
<a href="#">LC-SC3-ES-8-2019</a>	European Islands Facility - Unlock financing for energy transitions and supporting islands to develop investment concepts	€10 M	5/2/2019
<a href="#">LC-SC3-SCC-1-2018-2019-2020</a>	Smart Cities and Communities	€83 M	5/2/2019
<a href="#">LC-SC3-EE-17-2019</a>	European City Facility - European cities as key innovation hubs to unlock finance for energy efficiency	€16 M	5/2/2019
<a href="#">LC-SC3-RES-15-2019</a>	Increase the competitiveness of the EU PV manufacturing industry	€25 M	11/12/2018
<a href="#">LC-SC3-RES-28-2018-2019-2020</a>	Market Uptake support	€15 M	11/12/2018
<a href="#">LC-SC3-RES-24-2019</a>	Boosting pre-commercial production of advanced aviation biofuels	€20 M	11/12/2018
<a href="#">LC-SC3-RES-8-2019</a>	Combining Renewable Technologies for a Renewable District Heating and/or Cooling System	€15 M	11/12/2018
<a href="#">LC-SC3-RES-30-2019</a>	Demonstration of plug and play solutions for renewable off-grid electricity	€10 M	11/12/2018
<a href="#">LC-SC3-RES-17-2019</a>	Demonstration of solutions based on renewable sources that provide flexibility to the energy system	€40 M	11/12/2018

All H2020 calls can be found on the [Participant Portal](#)

### Energy-related topics in other Horizon 2020 WP2018-2020 Parts

The European Commission has presented an overview of energy-related topics in other Horizon 2020 Work Programme parts. This overview is indicative and does not claim completeness. Applicants are therefore invited to search themselves for relevant topics as well.

EU funding for energy beyond the 'Secure, Clean and Efficient Energy' challenge:  
[https://ec.europa.eu/inea/sites/inea/files/eu\\_energy\\_funding\\_beyond\\_sc3.pdf](https://ec.europa.eu/inea/sites/inea/files/eu_energy_funding_beyond_sc3.pdf)



# SOLAR-ERA.NET Open Call for Proposals



SOLAR-ERA.NET launched its Joint Call in PV and CSP on 4 June 2018. Fifteen (15) countries and regions participate in this call: Austria, Belgium Flanders and Wallonia, Cyprus, France, Germany and North-Rhine-Westphalia, Greece, Israel, Italy, The

Netherlands, Spain, Sweden, Switzerland and Turkey. The total public funding budget is 22 million euros, covering topics in photovoltaics (PV) and concentrating solar power (CSP). Preproposals have to be submitted not later than 2 October 2018.

**More information on the call and the SOLAR-ERA.NET:** [www.solar-era.net](http://www.solar-era.net)

## Updated Partner Search Tool

The Partner Search tool, accessed from the [C-Energy 2020 website](#) has been updated with some new features and now covers the 2018-2019 Energy and 2018 Euratom topics. The purpose is to offer a comprehensive and easy to use web-based tool that supports the building of consortia for promising proposals that are targeted at the open calls under the Horizon2020 Energy and Euratom Work Programmes.

One of the main features of this tool is the validation of requests by a responsible National Contact Point (NCP). This ensures a high level of reliability and accuracy of data. The validation of the entries includes an examination as to whether the information is reliable and if the specifications of the selected call topics have been considered.

Another important feature is the distinction between:

- Partner offer: Researchers who offer their expertise in a specific topic of research and are looking for collaboration in possible project consortia, and
- Partner search: Researchers or consortia with a definite idea for a project looking for additional partners to complement their expertise.

The **new version** of the PS tool has combined the Partner Search tools from:

- C-Energy2020: Energy NCP Network which also caters for the Euratom topics.
- NMPTeam: NCP Network for Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing ([www.nmpteam.eu](http://www.nmpteam.eu))
- NCPsCare: NCP Network for Climate Action, Environment, Resource Efficiency and Raw Materials ([www.ncps-care.eu](http://www.ncps-care.eu))

Some of the new features include:

- The partner search tools of the 3 NCP networks now have a common registration platform. As users are active in more than one thematic area, the tool will allow them switch work programmes to target respective topics from a single login portal.
- The tool has been redesigned so that Entries cannot be added for calls that are closed.
- Some new graphic interfaces
- When selecting topics to add to Partner offers/searches there are links to the respective Participant Portal topic page.

**Download the Partner Search Tool [User Manual](#)**



## **Mission Innovation Champions**

Mission Innovation Champions is a new recognition program to celebrate and support innovative individuals who are accelerating the clean energy revolution. The program was launched at the occasion of the Third Mission Innovation Ministerial (MI-3) on 22-23 May 2018 at Malmö, Sweden.



The program will recognize exceptional researchers and innovators who are developing novel ways of making energy cleaner, cheaper, and more reliable and using it more efficiently - calling worldwide attention to the most promising ideas from across the globe. This program is part of the global initiative **Mission Innovation** and will contribute to its objectives by fostering cross-border exchanges of ideas and talent, while also raising a greater awareness amongst the wider clean energy community of the transformational potential of energy innovation.

Mission Innovation Champions are individuals with a track record of progressing creative new ideas that

can drive the pace and scale of the clean energy revolution—the people who are inventing the products and services of the future or discovering the science that underpins them. They may be working in government laboratories, local universities, long-standing research firms, or their own recently launched clean technology start-up companies. Champions may be from “traditional” inventor disciplines such as sciences, engineering, mathematics, and architecture or from other fields.

One Champion from each Mission Innovation member participating in the program will be selected. Participating countries include: Australia, Austria, Canada, China, Denmark, European Commission, Finland, France, Germany, India, Italy, Japan, Mexico, Netherlands, Norway, Republic of Korea, Saudi Arabia, Sweden, and the United Arab Emirates.

The Champion for the European Commission will be selected from a European Union country that is not an individual member of Mission Innovation; this means: Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Greece, Hungary, Ireland, Latvia, Lithuania, Luxembourg, Malta, Poland, Portugal, Romania, Slovakia, Slovenia, and Spain.

**For more information:** [www.michampions.net](http://www.michampions.net)





## ***Horizon Europe - the next research and innovation framework programme***

On June 7, 2018, the Commission has published its proposal for Horizon Europe, an ambitious €100 billion research and innovation programme that will succeed Horizon 2020.

Horizon Europe will build on the achievements and success of the previous research and innovation programme (Horizon 2020) and keep the EU at the forefront of global research and innovation. Horizon Europe is the most ambitious research and innovation programme ever.

**Commission Vice-President Jyrki Katainen**, responsible for Jobs, Growth, Investment and Competitiveness, said "Investing in research and innovation is investing in Europe's future. EU funding has allowed teams across countries and scientific disciplines to work together and make unthinkable discoveries, making Europe a world-class leader in research and innovation. With Horizon Europe, we want to build on this success and continue to make a real difference in the lives of citizens and society as a whole."

**Carlos Moedas, Commissioner for Research, Science and Innovation**, added: "Horizon 2020 is one of Europe's biggest success stories. The new

Horizon Europe programme aims even higher. As part of this, we want to increase funding for the European Research Council to strengthen the EU's global scientific leadership, and reengage citizens by setting ambitious new missions for EU research. We are also proposing a new European Innovation Council to modernise funding for ground-breaking innovation in Europe".

While continuing to drive scientific excellence through the European Research Council (ERC) and the Marie Skłodowska-Curie fellowships and exchanges, Horizon Europe will introduce the following main new features:

- **A European Innovation Council (EIC)** to help the EU become a frontrunner in market-creating innovation: The Commission's proposal will establish a one-stop shop to bring the most promising high potential and breakthrough technologies from lab to market application, and help the most innovative start-ups and companies scale up their ideas. The new EIC will help identify and fund fast-moving, high-risk innovations with strong potential to create entirely new markets. It will provide direct support to innovators through two main funding instruments, one for early

stages and the other for development and market deployment. It will complement the European Institute of Innovation and Technology (EIT).

- **New EU-wide research and innovation missions** focusing on societal challenges and industrial competitiveness: Under Horizon Europe, the Commission will launch new missions with bold, ambitious goals and strong European added value to tackle issues that affect our daily lives. Examples could range from the fight against cancer, to clean transport or plastic-free oceans. These missions will be co-designed with citizens, stakeholders, the European Parliament and Member States.
- **Maximising the innovation potential across the EU:** Support will be doubled for Member States lagging behind in their efforts to make the most of their national research and innovation potential. Moreover, new synergies with Structural and Cohesion Funds will make it easy to coordinate and combine funding and help regions embrace innovation.
- **More openness:** The principle of 'open science' will become the modus operandi of Horizon Europe, requiring open access to publications and data. This will assist market uptake and increase the innovation potential of results generated by EU funding.
- **A new generation of European Partnerships and increased collaboration with other EU programmes:** Horizon Europe will streamline the number of partnerships that the EU co-programmes or co-funds with partners like industry, civil society and funding foundations, in order to increase their effectiveness and impact in achieving Europe's policy priorities. Horizon Europe will promote effective and operational links with other future EU programmes, like Cohesion Policy, the European Defence Fund, the Digital Europe Programme and the Connecting Europe Facility, as well as with the international fusion energy project ITER.

The Joint Research Centre (JRC), the Commission's science and knowledge service, will continue to contribute with scientific advice, technical support and dedicated research.

The proposed budget allocation of €100 billion for 2021-2027 includes €97.6 bn under Horizon Europe (€3.5 bn of which will be allocated under the InvestEU

Fund) and €2.4 bn for the Euratom Research and Training Programme. The Euratom programme, which funds research and training on nuclear safety, security and radiation protection, will have an increased focus on non-power applications such as healthcare and medical equipment, and will also support the mobility of nuclear researchers under the Marie Skłodowska-Curie Actions.

### Next steps

A swift agreement on the overall long-term EU budget and its sectoral proposals is essential to ensure that EU funds start delivering results on the ground as soon as possible. Delays would force Europe's brightest minds to look for opportunities elsewhere. This would imply the loss of thousands of research jobs and harm Europe's competitiveness. From fundamental research to market-creating innovation, key advances in e.g. healthcare, climate action, green transport and sustainable agriculture would slow down; solutions for cancer treatments, greenhouse gas emissions, smart cars, and healthy diets would be delayed.

An agreement on the next long-term budget in 2019 would provide for a seamless transition between the current long-term budget (2014-2020) and the new one and would ensure predictability and continuity of funding to the benefit of all.

### Background

The Horizon Europe proposal builds on the success of the current programme, Horizon 2020. **The interim evaluation** of Horizon 2020 showed that the programme is on track to help create jobs and growth, tackle our biggest societal challenges and improve people's lives. It shows that the programme has clear European added value, producing demonstrable benefits compared to national or regional-level support. As of May 2018, it has supported over 18,000 projects with over €31 billion awarded.

The proposal also builds on the Commission's contribution to the EU Leaders' meeting on 16 May in Sofia "**A renewed European Agenda for Research and Innovation - Europe's chance to shape its future**", which highlighted the needed steps to ensure Europe's global competitiveness.

About two-thirds of Europe's economic growth over the last decades has been driven by innovation.

Horizon Europe is expected to generate new and more knowledge and technologies, promoting scientific excellence, and to have positive effects on growth, trade and investment and significant social and environmental impact. Each euro invested by the programme can potentially generate a return of up to 11 euro of GDP over 25 years. Union investments in R&I are expected to directly generate an estimated gain of up to 100 000 jobs in R&I activities in the 'investment phase' (2021-2027).

### For more information

#### Legal texts and factsheets:

- EU funding for Research and Innovation 2021-2027
- EU Research and Innovation success stories

Independent high-level reports:

- **LAB – FAB – APP: Investing in the European future we want** : Report by the High-Level Group on maximising the impact of EU research and innovation programmes chaired by Pascal Lamy
- **Mission-oriented research & innovation in the European Union - A problem-solving approach to fuel innovation-led growth** by Professor Mazzucato
- **Europe is back: Accelerating breakthrough innovation**: Report by the High Level Group on the European Innovation Council
- **Re-finding industry -Defining innovation** by the High-Level Strategy Group on industrial technologies chaired by Jürgen Rüttgers

The **Horizon Europe** will be implemented through **three pillars**:



The **Open Science pillar** (€25.8 billion) supports frontier research projects defined and driven by researchers themselves through the **European Research Council** (€16.6 billion), funds fellowships and exchanges for researchers through **Marie Skłodowska-Curie Actions** (€6.8 billion), and invests in world-class research infrastructures.

The **Global Challenges and Industrial Competitiveness pillar** (€52.7 billion) directly supports research relating to societal challenges, reinforces technological and industrial capacities, and sets EU-wide missions with ambitious goals tackling some of our biggest problems. It also includes activities pursued by the **Joint Research Centre** (€2.2 billion) which supports EU and national policymakers with independent scientific evidence and technical support.

The **Open Innovation pillar** (€13.5 billion) aims to make Europe a frontrunner in market-creating innovation via the **European Innovation Council** (€10 billion). It will help develop the overall European innovation landscape, including by further strengthening the **European Institute of Innovation and Technology (EIT)** to foster the integration of business, research, higher education and entrepreneurship (€3 billion).

**More information:** [Horizon Europe webpage](#)





## ***Mission-oriented research & innovation in the European Union***

### ***A problem-solving approach to fuel innovation-led growth***

The European Commission, through Carlos Moedas, Commissioner for Research, Science and Innovation, invited Professor Mazzucato to draw up strategic recommendations to maximise the impact of the future EU Framework Programme for Research and

**Download the report [here](#).**

Innovation through mission-oriented policy. This report is the result of Professor Mazzucato's reflections based on her research, with inputs through a consultation process with internal and external stakeholders of the European Commission.

## ***Horizon 2020 in full swing - Three years on***

The brochure "[Horizon 2020 In Full Swing -Three Years On – Key facts and figures 2014-2016](#)" provides a snapshot of the programme's main achievements, taking into account more than 300 calls for proposals

**Download the brochure [here](#).**

## ***Social media guide for EU funded R&I projects***

A new guide on the use of social media in Horizon 2020 projects has been recently published by the European Commission. This guide will help the

**Download the guidance [here](#).**

researchers to use social media in the dissemination and communication activities of their EU funded Research and Innovation projects.

## ***Video "Attracting new experts"***

The Research Executive Agency (REA) has prepared a video that aims at enticing new independent experts to evaluate Horizon 2020 project proposals. The video illustrates the work expert evaluators and monitors carry out, and the benefits they take from this experience. It focuses especially on attracting new experts from underrepresented Member States, experts from the private/business sector, and female experts.

**The Video: [https://www.youtube.com/watch?v=awMvFluq\\_mw](https://www.youtube.com/watch?v=awMvFluq_mw)**

## Calendar of Events



### Horizon 2020 Energy Info Day 2018

**Brussels, Belgium / 5 October 2018**

The info day will cover the following H2020 Calls:

- Smart citizen-centred energy system
- Smart Cities and Communities

It will also give an overview on the application and evaluation process, and will offer a recap on lessons learnt from previous evaluations, including tips for writing a good proposal.

### H2020 Energy Brokerage Event

**Brussels, Belgium / 5 October 2018**

The Brokerage Event will be held in parallel to the **Horizon 2020 Energy Info Day 2018** of the European Commission. The event will be organized by the C-Energy 2020 and target a wide spectrum of companies, universities and researchers from Europe and beyond to foster the creation of consortia for the upcoming Horizon 2020 Energy Calls 2019.

### EUROGIA2020 Madrid Information Day and Project Pitch Session

**Madrid, Spain / 17 October 2018**

The event is organized by EUROGIA2020, the EUREKA Cluster for low carbon energy technologies, under the auspices of CDTI. This event aims to generate project ideas in the 5 low carbon sectors of EUROGIA2020 new call and help good quality transnational projects access funds in EUREKA Member and Associated Countries.

### INDustrial TECHNOLOGIES 2018

**Vienna, Austria / 29-31 October 2018**

INDTECH2018, an event of the Austrian Presidency of the Council of the European Union and the Directorate-General for Research and Innovation of the European Commission, will combine keynote presentations, talks, a match-making event and exhibitions. It provides an excellent opportunity to meet experts from industry, academia and policy to exchange information and to strengthen collaboration. INDTECH2018 is anticipating 1000 participants from more than 30 countries in Europe and across the globe. The programme includes also a session on "Sustainable and efficient energy" (30 October).

### 11th SET Plan conference - 2018

**Vienna, Austria / 20-21 November 2018**

The 11th annual SET Plan Conference will be held under the auspices of the Austrian Presidency of the Council of the EU. The conference will focus on the Energy Transition in the EU by discussing its European and international dimensions, such as the State of the Energy Union, Mission Innovation and External Dimensions as well as financial effects and future prospects. Policy-makers and representatives from business, science and innovation, civil society and regional and local governments will offer their views and discuss solutions in the Plenary Sessions. To deepen the debate on the SET-Plan's key actions, four Panels will be held concerning the following topics: - Smart Energy Systems, Flexibility and Storage - Consumers & Digitalisation of the Energy System - Energy Efficient Buildings & Smart Cities - Competitive and Energy Efficient Industry

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