

HORIZON 2020

European Research Programme

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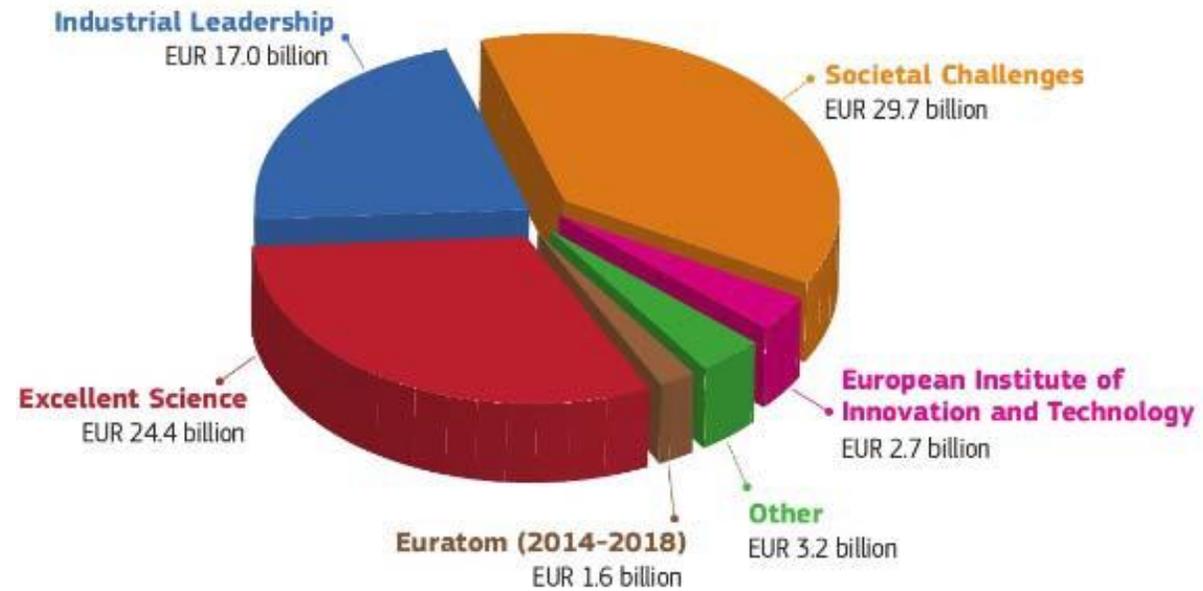
What is Horizon 2020?

- European Commission's 8th Framework
- Programme for research funding.
- 1st January 2014 – 31st December 2020
- €70.2bn over duration of programme

What is New?

- Funding rate
- Shorter time to grant
- Common Work Programmes
- Less prescriptive approach

BUDGET DIVISION



Industry Interest

- Industrial Leadership
- Leading and Enabling Industrial Technologies:
- The main section of interest to academics within this pillar is Leading and Enabling Industrial Technologies.
- Calls covering a number of sectors key to industries: eg. Biotech, nanotechnologies, manufacturing, robotics, photonics, sustainable processes, factories of the future, energy efficient buildings.
- Innovation in SMEs: Funding provided to SMEs in 3 phases – they can subcontract to research organisations in phase 2 (bringing an innovation to market).

- [Call for SPIRE 2015- sustainable process industries](#)

Opens: 11 Dec 2013

Registration closes: [No deadline](#)

Closes: [09 Dec 2014](#)

Programme: [Horizon 2020](#)

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[Call for energy-efficient buildings 2015](#)

Opens: [11 Dec 2013](#)

Registration closes: [No deadline](#)

Closes: [09 Dec 2014](#)

Programme: [Horizon 2020](#)

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[Cluster facilitated projects for new industrial chains](#)

Opens: [11 Dec 2013](#)

Registration closes: [No deadline](#)

Closes: [30 Apr 2015](#)

Programme: [Horizon 2020](#)

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Topic: Energy

- To provide European citizens with the widest energy source choice, while respecting the right of Member States to decide on their own energy mix, several energy and ICT technologies need to be available. In parallel, we need to stay in line with:
- the commitment to reduce greenhouse gas emissions by 20% by 2020;
- the objective of a further reduction up to 80-95% by 2050.
- Therefore, the energy research is a very complex area including various technologies and covering the following fields:
- Non-nuclear energy ([Concentrated Solar Power](#), [Photovoltaics](#), [Wind](#), [Ocean](#), [Hydro](#), [Geothermal](#), [Bioenergy](#), [Fuel Cells and Hydrogen](#), [Electricity Grids](#), [Carbon Capture and Storage](#), [Energy Storage](#), [Energy Efficiency](#), [Smart Cities](#)) and the integration of ICT (Inform. & Commun. Technologies) in all energy fields.
- Nuclear energy ([Fission](#) and [Fusion](#)).

SPIRE

- **Topic: Adaptable industrial processes allowing the use of renewables as flexible feedstock for chemical and energy applications**
- **SPIRE-02-2014** (Past Call- may be one in 2015)
- [Topic Description](#)
- [Topic Conditions & Documents](#)
- [Submission Service](#)
- **Specific challenge:** Use of biomass, residues and waste gases as feedstock/raw materials in industry to produce green chemical building blocks and energy is expected to increase significantly in the coming years. This will play a vital role in the establishment of a more sustainable and low carbon industry. However, the increased use of biomass, residues and waste gases as feedstock/raw materials in industry poses a number of challenges that need to be addressed, such as seasonal and fragmented availability, short harvesting windows, environmental challenges, variable availability and/or quality of supply, and presumed competition with animal or human food supply. In addition, it is important to develop highly efficient equipment using novel techniques and evaluate the use of biomass and residues as feedstock for co-firing in industrial processes to detect potential operational problems. Changing markets and making new links in the value chains will be an added challenge in the future production systems based on cross sectorial integration. These challenges have to be overcome in order to allow increased utilisation of biomass residues and waste gases in the industry.

SPIRE 2014-15

- [EE-02-2015: Buildings design for new highly energy performing buildings](#)
- [EE-18-2015: New technologies for utilization of heat recovery in large industrial systems, considering the whole energy cycle from heat production to transformation, delivery and end use](#)

Small and medium-sized enterprises (SMEs)

- Small and medium-sized enterprises (SMEs) are a key focus for Horizon 2020. At least 20% of the combined budget is dedicated to SME support. Horizon 2020 brings together a coordinated SME support package.
- A single set of rules with simplified and shorter procedures.
- A new three-stage SME instrument available for single companies and
- The Eurostars programme, a dedicated programme for supporting Research Performing SME in cross-border collaborative projects.
- Together with SMEs having access to the rest of the H2020 programmes, this makes Horizon 2020 an excellent source of support for SMEs.
- [*EU definition of an SME*](#)
- [*Support programmes in H2020 for SMEs*](#)
- [*Contact the SME UK National Contact Point*](#)

Funding Rates

- **Research and innovation actions**
- *Description:* Action primarily consisting of activities aiming to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service or solution. For this purpose they may include basic and applied research, technology development and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment.
- Projects may contain closely connected but limited demonstration or pilot activities aiming to show technical feasibility in a near to operational environment.
- *Funding rate:* 100%

ec.europa.eu/programmes/horizon2020/en

The annotated Grant Agreement for Horizon 2020 (acting as the guide to the Model Grant Agreement) has now been placed on the Participant Portal.

The page also includes all the H2020 and FP7 reference documents, including legal documents; the Commission work programmes for research and innovation up to model grant agreements; and guides for specific actions and horizontal issues. The documents are grouped by categories.

[Access the documents on the Participant Portal.](#)

Where to get help

- **UK National Contact Points for H2020**
- The Technology Strategy Board National Contact Points have a focus on assisting UK businesses to participate in Horizon 2020. They can also offer advice to academics and public sector bodies, but their main role is to assist UK industry. [See Other UK National Contact Points.](#)

Useful links/further info

- www.ukro.ac.uk – RCUK's Europe office
- <http://ec.europa.eu/programmes/horizon2020/en/> - official Horizon 2020 website
- <https://ec.europa.eu/research/participants/portal/> - Participant portal
- <https://www.h2020uk.org/> The UK link to the programme