

An official EU website



Fusion energy

Why the EU supports fusion research and innovation

Fusion has the potential to provide a safe, cost-efficient and sustainable solution to European and global energy needs. Fusion energy has no difficult waste issues and is climate friendly.

European fusion laboratories collaborate through a consortium called [EUROfusion](#) - the European Consortium for Development of Fusion Energy - in line with the long-term strategy set out in the [European research roadmap to the realisation of fusion energy](#).

The EU contributes €679 million to EUROfusion through [H2020 Euratom](#)

ITER is of key importance in the roadmap, **as it aims to prove the scientific and technological feasibility of fusion as a future energy source.** Although ITER itself will not produce electricity, DEMO - the device that will follow - will likely model a real future fusion power plant and produce electricity, with the goal of fusion electricity in the grid by 2050.

[More about fusion energy and ITER](#)

Funding opportunities

Horizon 2020 - calls

Calls for proposal related to nuclear energy themes in Horizon 2020. On this page you can find more information, the work programme and a link to related calls.

Horizon 2020 - access to risk finance

Gain easier access to debt and equity financing, such as InnovFin, managed by the European Investment Bank Group and European Investment Fund

Euratom

The Euratom programme provides funding for fusion research

NER 300 programme

Funding for innovative low-carbon technology research with focus on environmentally safe Carbon Capture and Storage (CCS) and innovative renewable energy technologies

European structural and investment funds (ESIF)

Energy research related calls may be found in these funds

SOFT Innovation Prize

Prize rewarding outstanding researchers or industries who find new solutions to the huge challenges of fusion energy.

Connecting Europe Facility - energy

CEF energy funds and finances energy infrastructure projects

LIFE+ Climate Action

Co-financing for climate change mitigation and climate change adaptation research, supporting the transition to a low-carbon and climate-resilient economy

COSME

EU Programme for the Competitiveness of Enterprises and Small and Medium-sized Enterprises (COSME) aims to make it easier for SMEs to access finance in all phases of their lifecycle

Prize for renewable energy islands

Prize rewarding achievements in local renewable energy production for electricity, heating, cooling and transport on islands.

Collaboration and jobs

Find project partners

Find partners for open EU calls for proposal

Public-private partnerships

Collaborate in energy research and innovation public-private partnerships

International cooperation

International cooperation between the EU and global stakeholders in energy

Jobs (EURAXESS)

Researcher jobs in related fields

EUROfusion

European Consortium for Development of Fusion Energy, managing research activities on behalf of Euratom

Projects and results

[Research project database \(CORDIS\)](#)

The Commission's primary portal for EU-funded research projects and their results

[Project success stories](#)

Stories of particularly successful EU-funded projects

[Horizon Magazine](#)

Latest news, interviews and features about thought-provoking science and innovative research projects funded by the EU.

[Horizon 2020 dashboard](#)

Access to real-time programme data with the ability to filter by country, region, theme and more.

[Horizon Results Platform](#)

Platform where framework programme participants present their results for you to search, contact their owners, and form partnerships.

[Results packs on energy](#)

Thematic collections of innovative EU-funded research results in the energy field

Scientific publications, tools and databases

[Strategic Energy Technologies Information System \(SETIS\)](#)

SET-Plan implementation progress reports giving data by priority area, country and energy source

[Scientific publications](#)

Scientific energy research publications published by the European Commission's Joint Research Centre (JRC)

[Energy research tools and databases](#)

[EU publications portal](#)

The Commission's Joint Research Centre (JRC) compiles databases and develops software and modelling tools. You can access energy research related ones here

Online library of EU energy research publications

EU Open Data Portal

Single point of access to open data produced by the EU institutions - all data free to use for commercial and non-commercial purposes

OpenAIRE

You can access all scientific publications from Horizon 2020 via OpenAIRE

Contact

Research enquiry service

You can contact the research enquiry service to find out more about research in Europe, the EU's research and innovation funding programmes as well as calls for proposals and project funding.

[Ask a question](#)

National contact points

The national contact points (NCP) network gives guidance and information on participating in Horizon 2020. NCPs are established in all EU countries and many non-EU countries.

[Find your national contact point](#)

Enterprise Europe Network

The Enterprise Europe Network is the world's largest support network for small and medium-sized enterprises (SMEs) with international ambitions.

[Contact the network](#)

European IP Helpdesk

Service that offers an intellectual property rights helpline, training and online library.

[Ask a question](#)

Related Commission departments

DIRECTORATE-GENERAL | RTD

[Research and Innovation](#)

DIRECTORATE-GENERAL | ENER

[Energy](#)

EXECUTIVE AGENCY | INEA

[Innovation and Networks Executive Agency](#)

DIRECTORATE-GENERAL | JRC

[Joint Research Centre](#)

EXECUTIVE AGENCY | EASME

[Executive Agency for Small and Medium-sized Enterprises](#)