



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 started on the 1st of December 2014 and will conclude on the 30th 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.*

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](#) and other related programmes.

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

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

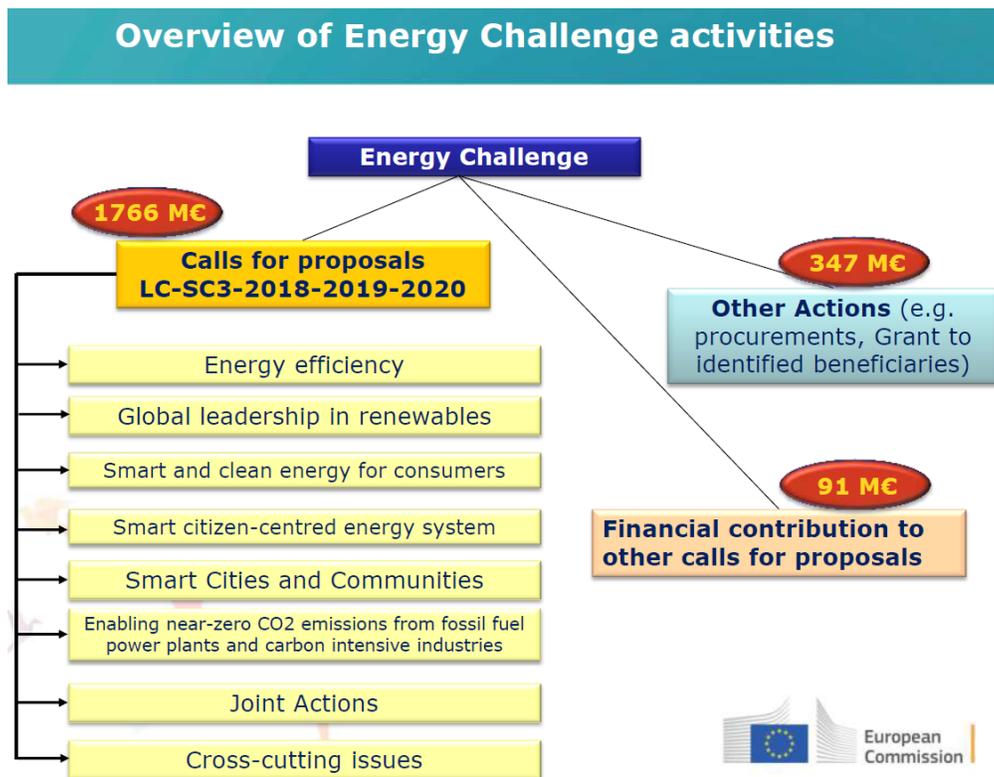
Horizon 2020 Work Programme 2018-2020: Secure, clean and efficient energy

On 27 October 2017, the European Commission presented the final Work Programme for Horizon 2020, covering the budgetary years 2018, 2019 and 2020 and representing an investment of around €30 billion.

The new features of this Work Programme include measures to support market-creating innovation, highly integrated activities called focus areas, emphasis on better dissemination of results and a focus on open access to data. The Work Programme also includes measures to increase simplification (e.g. lump sum funding), to widen participation from less performing countries, and to address skills mismatches.

Special focus is put on three of the four strategic research and innovation priorities which are primarily addressed by the **"Secure, Clean and Efficient Energy" Societal Challenge of Horizon 2020** – decarbonising the EU building stock by 2050; strengthening EU leadership on renewables; and developing affordable and integrated energy storage solutions.

The Energy work programme part supports research, demonstration, innovation and market-uptake actions across different low-carbon energy sectors, notably in the core priorities identified in the Energy Union Strategy.



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

Horizon 2020 Energy Info Days 2017

The Horizon 2020 Energy Info Days, took place from 23-25 October 2017, in Brussels, presented the new funding opportunities and innovative schemes offered by Horizon 2020's Energy Work Programme 2018-2020. The content of the event was structured across three days:



Day 1 (Mon, 23 Oct 2017) introduced the overall policy background and the Horizon 2020 work programme and covers funding opportunities for Global Leadership for Renewables, Decarbonisation of Fossil Fuels and other cross-cutting issues.

Day 2 (Tue, 24 Oct 2017) guided the participants on Smart Cities & Communities and Energy Systems funding opportunities.

Day 3 (Wed, 25 Oct 2017) focused on Smart & Efficient Energy funding opportunities.

You can listen to the recordings from the event and download presentations [here](#).

Horizon 2020 Energy Brokerage Event

On 24th October 2017, in conjunction with the Horizon 2020 Energy Infodays, the C-Energy 2020 in cooperation with the Enterprise Europe Network organised a Brokerage Event on the Energy calls of the Horizon 2020 Work Programme 2018-2020.

The participant's profiles can be found on the "[Horizon 2020 Energy Brokerage Event](#)" website.

Selected H2020 Energy Open Calls for Proposals

Call identifier	Scope	Budget	Deadline
LC-SC3-ES-5-2018-2020	TSO – DSO – Consumer: Large-scale demonstrations of innovative grid services through demand response, storage and small-scale (RES) generation	€30 M	5/4/2018
LC-SC3-ES-7-2018	Pan-European Forum for R&I on Smart Grids, Flexibility and Local Energy Networks	€3 M	5/4/2018
LC-SC3-ES-3-2018-2020	Developing and demonstrating integrated local energy systems (energy islands)	€26.3 M	5/4/2018
LC-SC3-ES-4-2018-2019-2020	Decarbonising energy systems of geographical islands	€19 M	5/4/2018
LC-SC3-RES-22-2018	Demonstrating cost-effective advanced biofuel pathways in retrofitted industrial installations	€20 M	5/4/2018
LC-SC3-SCC-1-2018-2019-2020	Smart Cities and Communities	€43 M	5/4/2018
LC-SC3-RES-2-2018	Disruptive innovation in clean energy technologies	€12 M	19/4/2018
LC-SC3-EE-1-2018-2019-2020	Decarbonisation of the EU building stock	€9 M	4/9/2018
LC-SC3-EE-8-2018-2019	Capacity building programmes to support implementation of energy audits	€10 M	4/9/2018
LC-SC3-EE-2-2018-2019	Integrated home renovation services	€7 M	4/9/2018
LC-SC3-EE-6-2018-2019-2020	Business case for industrial waste heat/cold recovery	€9 M	4/9/2018
LC-SC3-EE-14-2018-2019-2020	Socio-economic research conceptualising and modelling energy efficiency and energy demand	€4 M	4/9/2018

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



Study on "Technology Readiness Level: Guidance Principles for Renewable Energy Technologies"

The Commission has published the final report of the study "Technology Readiness Level: Guidance Principles for Renewable Energy technologies".

Horizon2020 uses the concept of Technology Readiness Level (TRL) to describe the scope of its calls for proposals. The definitions provided in the General Annex of the WP are an overall guidance and do not refer specifically to renewable energy technologies.

This study intended to assess the use of TRL in the energy field at European level. First, a desk research, complemented by surveys and interviews with stakeholders coming from the institutional, industrial and research field, led to the conclusion that there is still a lack of common understanding around the

concept of TRL and further guiding principles would be needed.

The study then developed guidance documents defining TRLs in 10 renewable energy fields. First, a Guide of Guides was conceived as backbone for any technology-specific definition and, based on its instructions, 10 guidance documents were produced and validated by stakeholders in an online survey and during a one-day workshop. A subcontractor, acting as reviewer, ensured the documents produced were consistent to update the Guide of Guides; its analysis identified technology-specific issues as well as a set of common trends for each TRL that may serve as a reference to develop guidance documents in any other energy technology field.

The [report](#) and the [annex](#) to the study (including the concrete description of TRLs for the different renewable technologies) can be found on the Commission publication web site



EIC Prize on "Fuel from the Sun: Artificial Photosynthesis"

The European Commission has launched the prize **Fuel from the Sun: Artificial Photosynthesis**, funded under Horizon 2020, the EU's research and innovation programme. This prize is one of the six European Innovation Council prizes, which contributes to EU's efforts to accelerate clean energy transition and fight against climate change.

The Commission will award €5 million to a contestant who will develop the best solution for combining sunlight, water and carbon from the air through artificial photosynthesis that will produce sustainable fuel for industry, housing and transport. The contestants will have to build a fully functional, experimental prototype device of a fuel production system, integrating the entire artificial photosynthesis process from light capture to fuel production.



The contest is open to individuals, groups, organisations and companies in Europe and internationally. The deadline for applications is 3 February 2021.

You can find more information, including the Rules of Contest, on the [European Innovation Council website](#)

European Innovation Council (EIC) pilot

The EIC pilot supports top-class innovators, entrepreneurs, small companies and scientists with bright ideas and the ambition to scale up internationally. It brings together the parts of Horizon 2020 that provide funding, advice and networking opportunities for those at cutting edge of innovation. It offers in a single place:

- €2.7 billion in funding for the period 2018-2020
- Opportunities for networking, mentoring and coaching
- Strategic advice to upgrade the innovation ecosystem in Europe

For more information: <http://ec.europa.eu/research/eic/index.cfm?pg=home>

The Role of the National Contact Points (NCPs)

What is the NCP network?

NCPs are national structures established and financed by governments of the 28 EU Member States and the States Associated to the EU R&I Framework Programme. NCPs are also established in many non-EU and non-Associated Countries. The NCP systems

can vary from one country to another from highly centralised to decentralised networks, and a number of very different actors, from ministries to universities, research centres and special agencies to private consulting companies.

What services NCPs provide?

As the NCPs are national structures, the type and level of services offered may differ from country to country. In general, the following basic services are available in accordance with the **NCP Guiding Principles** agreed by all countries:

- Guidance on choosing relevant H2020 topics and types of action;
- Advice on administrative procedures and contractual issues;
- Training and assistance on proposal writing;
- Distribution of documentation (forms, guidelines, manuals etc.);
- Assistance in partner search.

How to find your NCP

National Contact Points (NCPs) provide guidance, practical information and assistance on all aspects of participation in Horizon 2020. Thanks to the NCPs of your country, you can have personalised support on the spot and in your own language if you want to submit a project proposal under Horizon 2020.

Besides, you can benefit from NCP specific knowledge in a particular part of the Horizon 2020. Indeed, there are NCPs for Legal & Financial Issues, Access to Finance, SMEs, ICT, Infrastructures, Energy, etc. In the map available on the C-Energy 2020 website you can find the NCPs specialised in the Energy field in your country.



Find your Energy NCP on the MAP

You can find all the H2020 NCPs on the **Participant Portal**

C-ENERGY 2020

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)
- NCPsCare: NCP Network for Climate Action, Environment, Resource Efficiency and Raw Materials (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](#)



C-Energy 2020 Trainings for Stakeholders

“your chance to get on board of the vessel of international research and innovation cooperation”

For more than three years the C-Energy 2020 has provided trainings in different research centres of Europe – Kaunas, Zagreb, Warsaw, Athens, Tbilisi and Brussels. The target group of the trainings includes researchers and entrepreneurs eligible for participation in project proposals of Horizon 2020.



What is offered is not a traditional teaching, listening to presentations. The idea of a **hands-on training** is that the active role is performed by the participants themselves, so called **learning-by-doing approach**, while the trainers have only a supervising and consulting task. All trainings include 1 – 3 presentations introducing Horizon 2020 and relevant work programme. Besides, guiding slides are prepared to introduce each new task. If needed, some additional information, useful hints, screen-shots with guiding instructions etc. are presented. Specific choice of tasks and level of difficulty depends on the preliminary experience of the participants – either beginners or advanced. Participants have to fulfill 10 – 15 tasks, implemented either individually or as a group work. Besides, different activating exercises are prepared, like brain-walks, puzzles, quizzes etc., which create friendly atmosphere, initiate active discussions and allow to test the memory of the participants. Small gadgets and sweets are used as motivators for a friendly competition.

If you think that what you read above might help you to move on, contact the project team (maria.habicht@etag.ee)

Two main types of trainings can be identified – **Participant Portal based** and **partner search (database) based**. In the first option, the whole training proceeds from the possibilities offered by the Participant Portal and ended with drafting a project proposal. In the second option, the effort is focused on the role of partners in the consortium, consortium building, partner search and partner offer and ends with filling in a personal/institutional profile in the partner search database of C-Energy 2020 web-site www.partnersearch.c-energy2020.eu In both cases, participants can continue revising and updating either the draft proposal or their profile after the trainings, bringing them in this way closer to the club of potential proposers/project partners. Whatever is the main focus of the training, both participant portal and partner search are part of the training programme but with different weight and share of allocated time. Situations close to real-life conditions certainly add confidence to those with minimum or almost no previous experience, and equip with additional skills and knowledge those, who could be qualified as experienced in the Framework Programme.

Why should you come to such training?

- You get a **guided tour through Horizon 2020** with all its possibilities, complications, rules and hidden obstacles.
- You can make new contacts.
- You can discover your strengths and advantages as a potential partner.
- You learn, how to read and interpret different programme related document.
- You can save your time, learn from the mistakes of other people and avoid making yours.
- You can find you way aboard of the vessel of international research and innovation cooperation

Commission Action Plan for a modern and clean economy

At the **One Planet Summit** in Paris on 12 December 2017, marking the second anniversary of the **Paris Agreement**, the European Commission presented ten initiatives in a new **Action Plan for the Planet** to show how the EU is working to create a modern economy and a fair society, powered by sustainable energy. These initiatives include:

- Investing in Clean Industrial Technologies
- The Clean Energy for Islands Initiative
- The EU Rulebook for Investment in Energy Performance of Buildings
- The Smart Finance for Smart Buildings Investment Facility
- Structural Support Action for Coal and Carbon Intensive Regions

A summary of the ten initiatives has been put together in a brochure, available in **EN** and **FR**.



Agreement on new rules for improving the energy performance of buildings

A political agreement on new rules for improving the energy performance of buildings was reached on the 20th of December 2017 between negotiators from the European Parliament, the Council and the Commission. The Commission's proposal forms part of the implementation of the Juncker Commission priorities – in particular "**a resilient Energy Union and a forward-looking climate change policy**". The agreement signals the closure of the first of 8 legislative proposals part of the **Clean Energy for All Europeans** package brought forward by the European Commission

on 30 November 2016. It also shows that the work towards the completion of the Energy Union is on the way and that the work initiated by the Juncker Commission is being delivered.

The improvements agreed include measures to strengthen the energy performance of new buildings, to accelerate the rate of building renovation towards more energy efficient systems and tapping into the huge potential for efficiency gains in the building sector, the largest single energy consumer in Europe.

More information:

<https://ec.europa.eu/energy/en/news/commission-welcomes-agreement-energy-performance-buildings>

Future Horizon 2020 proposals involving UK partners

On 8th December 2017, the UK Government and the negotiators of the European Union published a **Joint Report**. The agreement reached on the financial settlement in this report means that, in principle, UK entities' right to participate in EU programmes, including Horizon 2020, will be unaffected by the UK's withdrawal from the EU.

UK based individuals and organisations will remain eligible to bid for funding, participate in and coordinate consortia, including for Calls in 2019 and 2020. Projects which have already been approved will be able to continue with an uninterrupted flow of EU funding.

In the event that the commitments in the Joint Report are not met, the **UK Government's underwrite**

guarantee remains in place. The funding for all successful applications by UK researchers, businesses and universities which have been submitted by the date of EU exit is guaranteed. The UK Government will work with the European Commission to ensure payment when funds are awarded.

In a **speech**, Commissioner Moedas recently reasserted that "Horizon 2020 projects will continue to be evaluated based on merit and not on nationality. So I urge the European scientific community to continue to choose their project partners on the basis of excellence.". This is in line with European Commission guidance for evaluators of Horizon 2020 proposals which states that "experts should not evaluate proposals with UK participants any differently than before".

Existing Horizon 2020 projects involving the UK partners

In October 2017, the European Commission published a **note** (below) on the eligibility of UK participants under Horizon 2020 referring to the existing terms and conditions of the EU research and innovation framework programme agreements.

However, the **termination of projects is not automatic or obligatory**. Article 50.3 of the **Annotated Model Grant Agreement** (contract that sets out requirements and rules for project involvement) contains a number of possible circumstances under which the Commission would have grounds to directly terminate a project or the participation of a beneficiary. These include the beneficiary being declared bankrupt, the research no

longer being relevant and other circumstances which call into question the decision to award the grant.

Even if UK partners cannot continue to receive funding from the European Commission because the UK is no longer one of the countries eligible for funding, the UK Government has **guaranteed funding for successful bids** submitted by UK participants before departure, including those that are successful afterwards. Third country (non EU) participation is routine in Horizon 2020 and often **supported with national funding** (i.e. China, Korea, Brazil, USA, etc.).

Moreover, a **Horizon 2020 Underwrite Q&A** is available **here**. If you have further questions regarding UK participation in Horizon 2020, please contact the relevant **UK National Contact Point** (NCP).

Note: News for British applicants to Horizon 2020 06/10/2017 (European Commission)

"For British applicants: Please note that until the UK leaves the EU, EU law continues to apply to and within the UK, when it comes to rights and obligations; this includes the eligibility of UK legal entities to fully participate and receive funding in Horizon 2020 actions. Please be aware however that the eligibility criteria must be complied with for the entire duration of the grant. If the United Kingdom withdraws from the EU during the grant period without concluding an agreement with the EU ensuring in particular that British applicants continue to be eligible, you will cease to be eligible to receive EU funding (while continuing, where possible, to participate) or be required to leave the project on the basis of Article 50 of the grant agreement".

European Commission's H2020 related Publications

Four publications on focus Areas in Horizon 2020 Work Programme 2018-2020

The Horizon 2020 Work Programme 2018-2020 includes four Focus Areas representing a combined budget of EUR 7 billion: (i) Building a low-carbon, climate resilient future, (ii) Connecting economic and environmental gains – the Circular Economy, (iii) Digitising and transforming European industry and services, and (iv) Boosting the effectiveness of the Security Union.

Four dedicated booklets have been produced to bring together contributions from various programme parts to pursue a common objective and create sustained impact. They also include real examples demonstrating the added value of research and innovation.

Please find below **the links to the four publications** explaining the focus areas of the 2018-2020 Horizon 2020 Work Programme:

- **Building a low-carbon, climate resilient future**
- **Connecting economic and environmental gains – the Circular Economy**
- **Digitising and transforming European industry and services**
- **Boosting the effectiveness of the Security Union**



Other Publications

The Commission [Communication](#) on the **Horizon 2020 Interim Evaluation**, adopted on 11 January 2018, is available on this [website](#).

The Commission also published recently its **brochure "Horizon 2020 - first results"** which provides **statistical data on the first 100 calls for proposals across H2020**.

'**Real-time**' **statistical data** is continuously provided through the interactive tool "**Horizon 2020 Dashboard**".

Calendar of Events



World Sustainable Energy Days

Wels, Austria / 28 February – 2 March 2018

The World Sustainable Energy Days (WSED) are one of Europe's largest annual conferences in this field. The 2018 conference will take place from 28 February - 2 March 2018 in Wels/Austria and it will feature policies, technology innovation and market development. It offers a unique combination of conferences and interactive events.

The annual conference brings together more than 700 delegates from over 50 countries from business, public sector and the research community.

Young Energy Researchers Conference 2018

Wels, Austria / 28 February – 1 March 2018

The Young Energy Researchers Conference is part of the World Sustainable Energy Days (WSED). Linked to the main topics of the WSED18, the conference has 2 tracks, one for biomass and one for energy efficiency. The 2 best contributions are honoured with the awards "Best Young Energy Researcher: Energy Efficiency" and "Best Young Energy Researcher: Biomass". The researchers receive 1,000 Euro each as prize money.

Ecobuild Matchmaking 2018

London, UK / 7 March 2018

Enterprise Europe Network is organising a B2B matchmaking event during **Ecobuild**, one of the biggest fairs in the world for sustainable construction.

The free matchmaking event give the opportunity to meet potential business and technology partners during pre-arranged 20 minute meetings and create real opportunities between companies, active in the construction sector and energy efficiency.

Focus of the matchmaking event: Sustainable design, Innovative and efficient eco-technologies, New building materials and technologies, Systems and equipment using energy from alternative sources, Renewable energy, Bioenergy, Smart Building.

22nd International Passive House Conference 2018

Munich, Germany / 9 - 10 March 2018

In view of the international climate objectives, providing both affordable and energy efficient living space has become a challenging task for cities and communities. Solutions for solving this dilemma will be discussed at the 22nd International Passive House Conference. Accordingly, the key theme of this conference, where over 1000 experts in the field of energy efficient construction will come together, is "**Passive House – it's worth it!**", introducing many low-cost projects relating to energy efficient construction to the Passive House Standard.

[Energy Storage Europe Expo and Conference](#)

Düsseldorf, Germany / 13 - 15 March 2018

ENERGY STORAGE EUROPE offers a unique forum to the leading research institutes and companies of the storage industry. Only here are you able to experience live all of the presently existing storage technologies. The renowned science conference International Renewable Energy Storage presents the latest research results for the storage of renewable energies. The ENERGY STORAGE EUROPE Conference deals with all of the issues, which arise on the way from research up to the market mature product.

[5th International Solar District Heating Conference](#)

Graz, Austria / 11 - 12 April, 2018

The 2018 edition of the Solar District Heating (SDH) Conference will focus on sharing market development and policy making experience, recent projects as well as latest trends in technology and system concepts

[Green Cities for a Greener Future Conference](#)

Brussels, Belgium / 22 - 24 May 2018

The next edition of EU Green Week will explore ways in which the EU is helping cities to become better places to live and work. Showcasing policy developments on air quality, noise, waste and water management, it will promote participatory approaches to urban development, networking schemes, and tools for sharing best practices, engaging local authorities and citizens, and encouraging them to share their vision of a sustainable future.

EU Green Week 2018 will include events across Europe, a high-level conference in Brussels from 22-24 May 2018, and Opening and Closing events (21 and 25 May) to take place in the Member States.

[EUSEW2018 Conference](#)

Brussels, Belgium / 5 – 7 June 2018

The Conference taking place during the EU Sustainable Energy Week is the most important European conference dedicated to sustainable energy policy issues. Sessions organised by the European Commission and energy stakeholders debate new policy developments, best practices and sustainable energy ideas, while networking events forge alliances. Outstanding projects are recognised at the Award Ceremony.

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