



Opportunità del programma Horizon 2020 nel settore Energia

ENERGYMED Napoli, 5 Aprile 2018

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APRE - EU Horizon 2020 National Contact Point

Secure, clean and efficient energy

Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy

EURATOM



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Content

- ["] H2020 ENERGY Calls 2018-2019
- "HORIZON 2020 Rules
- ["] Tips for successful proposals



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Calls for proposals LC-SC3-2018-2019-2020





Energy Efficiency / Smart and Clean Energy for Consumers



* The topic also addresses this thematic area where indicated

** Mostly minimum 3 beneficiaries (check the Work Programme 2018-2020)

Smart and clean energy for consumers

EC-1-2018-2019: The role of consumers in changing the market through informed decision and collective actions

• 2018: develop activities informing and motivating consumers to change old and inefficient installed appliances with the highest energy saving potential to more efficient and clean energy heating and/or cooling solutions; consider financial and other aspects; address 'rebound effect'; involve all relevant stakeholder

• 2019: set up and/or support consumer cooperatives/collective purchase groups, and/or other consumer-driven collective actions to increase energy efficiency and/or optimise energy management within the community; address regulatory barriers and contractual conditions; address split incentives

EC-2-2018-2019: Mitigating household energy poverty

- Contribute to actively alleviating energy poverty and developing a better understanding of the types and needs of energy poor households and how to identify them
- Facilitate **behaviour change** and implementation of **low-cost energy efficiency measures** tailored for energy poor households
- Support the set-up of financial and non-financial support schemes for energy efficiency and/or small-scale renewable energy investments for energy poor households
- Develop, test and disseminate innovative schemes for energy efficiency/RES investments established by utilities or other obligated parties under Article 7



European Commission

Global leadership in renewables

	2018	2019	2020
Next renewable energy solutions	RES-2	RES-1	RES-3
Renewable energy solutions at consumer scale	Energy generation at building scale RES-4, RES-5, RES-6	Renewable energy solutions at distrcit level and for industrial processes RES-7, RES-8	RES-9, RES-10
Renewable energy solutions for energy system implementation	Reduce costs of key technologies for renewable energy conversion RES-11, RES-12, RES-13Optimize processes and manufacturing RES-14, RES-15Provide flexibility to the energy system RES-16, RES- 17		RES-18, RES-19, RES- 20
Renewable fuels for transport	Drop-in fuel solutions for fossil-fuel substitution RES-21, RES-22	Upscaling renewable fuels production RES-23 RES-24	RES-25, RES-26, RES- 27
Market Uptake Support	RES-28	RES-28	RES-28
			European Commission

Global leadership in renewables

Technology area	Research activities (RIA)	Innovation activities (IA)	
Solar energy (PV, CSP)	RES-1-2019, RES-2-2018, RES-4- 2018, RES-7-2019, RES-11-2018, RES-14-2019	RES-6-2018, RES-8-2019, RES-13- 2018, RES-15-2019, RES-17-2019	
Wind energy	RES-1-2019, RES-4-2018, RES-11- 2018	RES-13-2018	
Ocean energy	RES-1-2019, RES-11-2018, RES-14- 2019		
Biofuels / alternative fuels	RES-1-2019, RES-2-2018, RES-16- 2019, RES-21-2018, RES-23-2019	RES-17-2019, RES-22-2018, RES-24- 2019	
Geothermal energy	RES-1-2019, RES-4-2018, RES-11- 2018, RES-14-2019	RES-8-2019, RES-13-2018	
Heating / cooling, CHP	RES-1-2019, RES-4-2018, RES-11- 2018	RES-5-2018, RES-8-2019, RES-12- 2018	
Hydro energy	RES-1-2019, RES-11-2018, RES-16- 2019,	RES-17-2019	
Virtual Power Plant	RES-16-2019		

Topics for 2018 in black font Deadlines closed; for 2019 in purple font Deadline 16/10/2018 (First stage topics) 11/12/2018 full proposal topics

["] Topics for 2020 not included (added as of mid-2018)

Market-uptake activities (CSA, RES-28) cover all areas Deadline 11/12/2018



Smart Citizen-Centred Energy System

Smart citizen-centred energy system

Grid

- ES-1-2019: Flexibility and retail market options for the distribution grid (IA)
- ES-2-2019: Solutions for increased regional crossborder cooperation in the transmission grid (IA)
- ES-5-2018-2020: TSO DSO Consumer: Largescale demonstrations of innovative grid services through demand response, storage and small-scale (RES) generation (IA)
- ES-6-2019: Research on advanced tools and technological development (RIA)

Local systems & island

- LC-SC3-ES-3-2018-2020: Integrated local energy systems (Energy islands) (IA)
- ["] LC-SC3-ES-4-2018-2020: Decarbonising energy systems of geographical Islands (IA)
- LC-SC3-ES-8-2019: European Islands Facility Unlock financing for energy transitions and supporting islands to develop investment concepts (CSA)

Deadline 05/02/2019



Smart Cities and Communities – SCC-1

Specific Challenge

- COP21, EU Energy/Climate goals
- Necessary energy transition in cities
- Increase energy systems integration and to push energy performance levels significantly

Scope

- Deploy and test integrated innovative solutions for **Positive Energy Blocks/Districts** in the Lighthouse Cities
- Carry out extensive performance monitoring (ideally for more than 2 years)
- Interaction and integration between the buildings, the users and the larger energy system
- Implications of increased **electro-mobility**, its impact on the energy system and its integration in planning

Expected impact

- Meeting EU climate mitigation and adaptation goals and national and/or local energy, air quality and climate targets, as relevant;
- Significantly increased share of i) **renewable** energies, ii) waste **heat recovery** and iii) appropriate **storage** solutions (including batteries) and their **integration** into the energy system and iv) **reduce greenhouse gas emissions**;
- Lead the way towards wide scale roll out of **Positive Energy Districts**;
- Significantly **improved energy efficiency**, district level optimized **self-consumption**, reduced curtailment;
- Increased uptake of e-mobility solutions;



Deadline 05/02/2019

Enabling near-zero CO2 emissions from fossil fuel

NZE-1: Pilots for advanced capture technologies (2018)

• *RIA; Deadline: 6.9.2018; indicative budget: EUR 20 million*

NZE-2: Pilots on CO2 conversion to fuels (2018)

• RIA; Deadline: 6.9.2018; indicative budget: EUR 12 million

NZE-3: Strategic planning for CCUS deployment (2018)

• CSA; Deadline: 6.9.2018; indicative budget: EUR 2 million

NZE-4: Integrated solutions for flexible power plants using powerto-X and energy storage (2019)

• IA; Deadline: 27.8.2019; indicative budget: EUR 20 million

NZE-5: CCS in industry (2019, 2020)

• IA; Deadline (2019): 27.8.2019; indicative budget: EUR 33 million

NZE-6: Geological storage pilots in different settings (2020)

European Commission

Running energy prizes - overview

	Title	Budget	Submission by
	CO2 reuse in innovative products EC-CO2REUSE-PRIZE@ec.europa.eu	€1.5 EUR million	3 April 2019
	Low carbon hospital Combined Heat and Power installation in a hospital using 100% renewable energy sources EC-LOWCARBON-PRIZE@ec.europa.eu	€ 1.0 EUR million	3 April 2019
	Photovoltaics meets history Integrated Photovoltaic Energy System in a European protected historic urban district EC-PHOTOVOLTAICS-PRIZE@ec.europa.eu	€ 0.75 EUR million	26 September 2018
<u>'FUEL FROM</u>	THE SUN: ARTIFICIAL PHOTOSYNTHESIS	€5 million 3	B February 2021

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1. Who can participate?

Any legal entity, regardless of its place of establishment, or international organization.

2. How can participate?

(a) at least three legal entities shall participate in an action;(b) three legal entities shall each be established in a differentMember State or associated country; and

(c) the three legal entities referred to in point (b) shall be independent of each other.



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3. Who is eligibile for funding?

(a) any legal entity established in a Member State or associated country*, or created under Union law;

(b) any international European interest organisation;

(c) any legal entity established in a third country identified in the work programme (Annex A).



Associated Countries

- ″ Iceland
- ″ Norway
- ″ Albania
- ["] Bosnia and Herzegovina
- " the former Yugoslav Republic of Macedonia
- ″ Montenegro
- ″ Serbia
- ″ Turkey

- ″ Israel
- ″ Moldova
- " Switzerland
- Faroe Islands
- ″ Ukraine
- ″ Tunisia
- ″ Georgia
- ″ Armenia



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International Cooperation

In case of a participating legal entity established in a third country not eligible for funding, funding from the Union may be granted provided that at least one of the following conditions is fulfilled:

a) The participation is deemed essential for carrying out the action

b) Such funding is provided for under a bilateral scientific and technological agreement



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Third countries not eligible

<u>Industrialised countries</u>: for instance US, Canada, Republic of Korea, Singapore, Australia, Taiwan, New Zealand, Macao, San Marino, Monaco, Andorra, Vatican, etc.

<u>Emerging economies</u>: BRIC+M Brazil, Russia, India, China and Mexico



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4. How proposal are selected?

The evaluation is carried out by independent experts.

http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html

3 CRITERIA



- For full proposals, each criterion will be scored out of 5. The threshold for individual criteria will be 3. The overall threshold, applying to the sum of the three individual scores, will be 10.
- For Innovation actions to determine the ranking, the score for the criterion impactquill be given a weight of 1.5.

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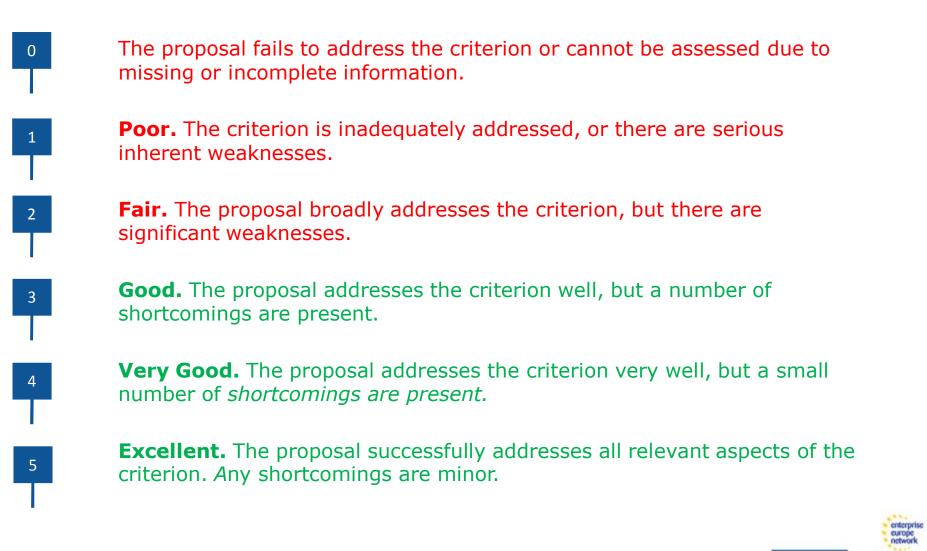
APR 201

www.apre.it

The scoring scale



www.apre.it



5. When a project starts?

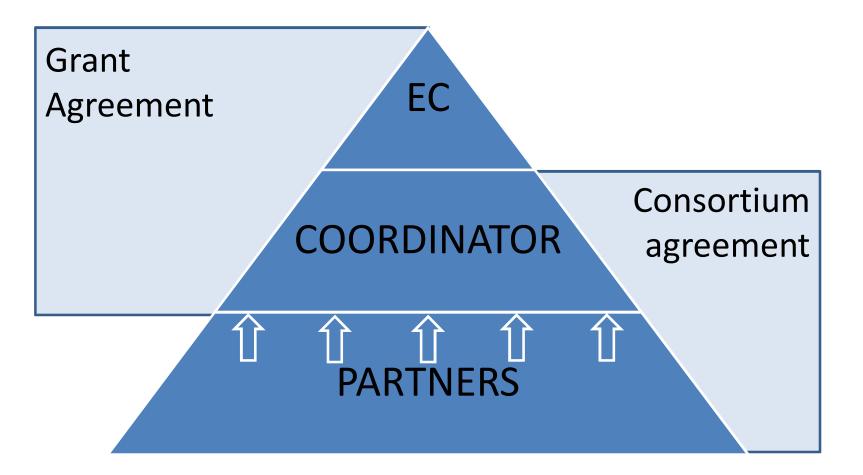


By default: the first day of the month following the date the Grant Agreement enters into force.



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Legal frame





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6. What are the funding rules?

1 reimbursement rate by action (same rate for all beneficiaries

and all activities):

- ⁷ Up to <u>100%</u> for Research and Innovation Actions
- Up to 100% for Coordination and Support Actions
- ["] Up to <u>70%</u> for Innovation Actions (non-profit entities up to 100%) and programme co-fund actions

1 method for calculation of **indirect costs**:

- Flat rate of 25% of total direct costs, excluding subcontracting, costs of third parties and financial support to third parties
- [~] If provided in WP, lump sum or unit costs

Funding of the action not exceed **total eligible costs minus receipts**



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Frequent mishaps – Eligibility / Admissibility

- Call deadline is unchangeable: use all advantages of the electronic submission system to make the deadline!
- Completeness: one section missing makes your proposal inadmissible
- Partnerships: remember the principle of 3 participants from MS or AC (check work programme for exceptions)
- Page limit of 50 pages for CSA, 70 for IA+RIA: applied strictly during the evaluation



Frequent mishaps – Excellence

- Evaluation results: proposal often miss explanation of the concept and added value and innovation falls short.
- ["]Be courageous take choices, focus and innovate.
- " "Explain the overall concept underpinning the project" -> do this not only from the perspective of the coordinator.. Input from your partners is key.
- ["] Do not assume that evaluators know your specific context.
- ["] Do not overcrowd objectives and show how you achieve them.
- You win by explaining!



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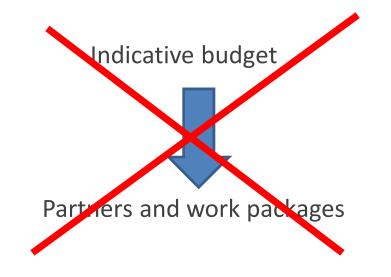
Frequent mishaps – Impact and Implementation

- Evaluation results: ambition is not quantified / not realistic / not supported by action.
- Quantify! Describe in a concise, yet robust, manner your baseline, benchmarks and assumptions.
- Keep your challenge in mind!
- ["] Plan activities to monitor your performance.
- The consortium of partners must be excellent and appropriate for the tasks.
- Be aware: keep the link to actual activities in your work plan!



Frequent mishaps – Resources

- Evaluation results: work plan not sufficiently detailed / budgets not justified / budgets seem top-down
- Make sure work description sufficiently detailed and clear
- Invest time into this: this is the opportunity to convince evaluators that you can materialize your vision
- Invest time into your resource planning bottom up:





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Tips for successful proposals

- ⁷ Treat each section as if it is the most important section.
- [~] Think about presentation and the layout of the proposal. Use diagrams to explain complex concepts.
- Ask an "informed outsider" for critical proof-reading and check for spelling mistakes (ask a native speaker check the English).
- Sell, don't tell. Make the evaluator feel your passion. In addition to having an excellent idea which is the basis of any successful proposal, researchers must sell the concept to the evaluators.
- The Project has to serve the needs of the European Community / European Policies (Impact).



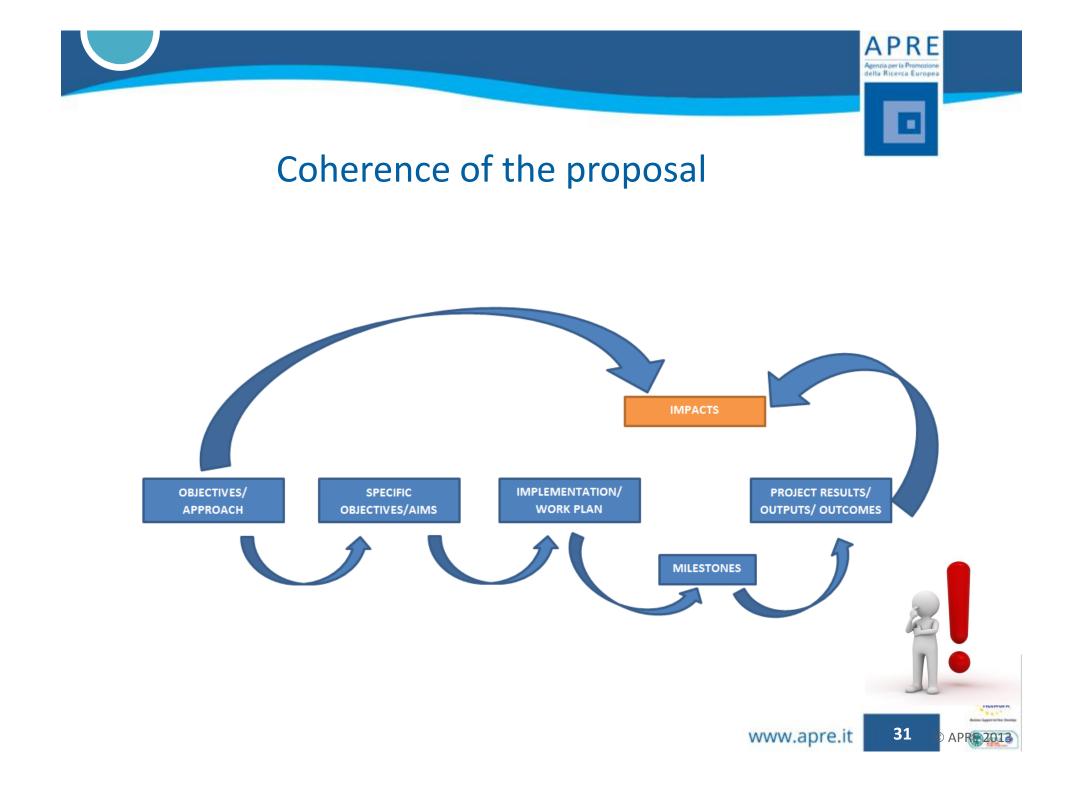
Tips for successful proposals

- Do not submit at the last minute!
- ["] Do not hesitate to submit several versions.
- ["] Read all the documents provided by the EC.
- ["] Follow exactly the structure given in the guide for applicants.
- ["] Be as concise and precise as possible. Avoid general statements.
- ["]Have the evaluation criteria at the forefront when writing the proposal.



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Description of the activities Budget



Development of the text

Introduce (new) concepts at the beginnig, explain (do not introduce new concepts afterwards)

- ⁷ Refer to public data (statistics) if relevant
- ^{*} Refer to previously funded projects (innovation can be a follow-up)
- Use terminology relevant to the context of the Programme and the call (topic)
- Short and dense text (use the diagrams)
- Make the text clear, well structured and fluent
- Plan an index, use short paragraphs, point out key passages, schematise the concepts
- ⁷ Insert only information relevant to the project





Make the proposal readable. Evaluator has few hours to read your proposal and evaluate it. Write in **bold**, use *cursiv*, <u>underline</u>.

Better one table than thousand words...







Eleven centres and research groups active in andrology and medical sexology have been selected: Leuven (B), Muenster (D), Leipzig (D), Barcelona (E), Rome (I), Florence (I) (these biomedical centres also have interdisciplinary connections with psychological and psychosexological research groups and inter sectorial connections with research groups in the sectors of sociology and science of communication; complementary training described in point B2.1 will be organised in these Centres); Malmoe (S), Manchester (UK), Giessen (D), Tartu (EE), Lodz (PL) (centres with clinical and bio-molecular facilities). See also point B3 with the individual Centres description.

As previously noted, these centres are already project will be able to make use of an a

Also inserted in the Network will be the comp andrological field: Serono, Organon, Fei Eli Lilly, Pfizer, Bayer, and GSK, manufac Johnson & Johnson, manufacturer of th treating premature ejaculation, Scherin administration methods dedicated to ag point B2.1 will be organised by experts

List of involved Centres

Malmö (S), University of Lund, Department of Manchester (UK), Department of Endocrinolo Tartu (EE), Department of Urology, Tartu Univ Leuven (B), Department of Endocrinology, Un Muenster (D), Institute of Reproductive Medi r the EAA. This new research and training

generation products active in the rugs proposed for therapy male infertility, inhibitors acting on erectile dysfunction, otonin reuptake, specifically aimed at erone formulations with innovative, specific the complementary training describe in

r Giwercman Prof. Frederick Wu ab

erschueren Eberhard Nieschlag

Giessen (D), Department of Dermatology, Justus Licens Conversity of Cleaser, Channen Prof. Andreas Meinhardt Leipzig (D), Department of Andrology and Dermatology, University of Leipzig, Hans-Juergen Glander

-elpzig (D), Department of Andrology and Dermatology, University of Leipzig, Hans-Juergen Glander

Lodz (PL), Department of Andrology and Reproductive Endocrinology, Medical University of Lodz, Chairman Prof. Krzysztof Kula

Barcelona (E), Fundacion Puigvert Andrology Service, Clinica de la Santa Creu, Chairman Prof. Osvaldo Rajmil

Rome (I), Department of Medical Physiopathology, University of Rome "La Sapienza", Co-Chairmen Prof. Andrea Lenzi and Prof. Franco Dondero



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	-					
centres	Competencies					
	Clinical	Laborat ory	Sexologi cal	Psychologi cal	Ethic al	Sociologic al
Rome	X	X	X	X	Х	Х
Malmo	X	X	X	_	Х	-
Manchest er	X	×	SW	-	X	-
Tartu	X	X 😒	an	17	-	-
Leuven	Х	X		-	Х	Х
Muenster	Х	X 🗾	· · · ·	50	Х	Х
Giessen	Х	х 🧐	SANT	N. C.	Х	-
Leipzig	Х	X	1121		-	-
Lodz	Х	Х	Х	-	-	-
Barcelona	X	Х	Х	Х	Х	Х
Florence	x	Х	Х	x	х	Х



.. The last tips!

- Your proposal must be written in order to solve European problems identified in EU policies.. Never give the impression that you are writing a project because trying to get funding!
- Don't considerate only scientific aspects (it is not an scientific paper!) but also political, economical and social!
- Confront with the NCP the consistency of your project idea!



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NCP's Mission

Highly professional **SUPPORT SERVICES** operating nationally will form an essential component of Horizon 2020 implementation. By **SPREADING AWARENESS, GIVING SPECIALIST ADVICE, AND PROVIDING ON-THE-GROUND GUIDANCE**, they will ensure that the new programme becomes **KNOWN AND READILY ACCESSIBLE TO ALL POTENTIAL APPLICANTS**, irrespective of sector or discipline.

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 \rightarrow In accordance with national law, systems should be in place to ensure that **confidential information** that comes into the possession of NCPs is treated accordingly.



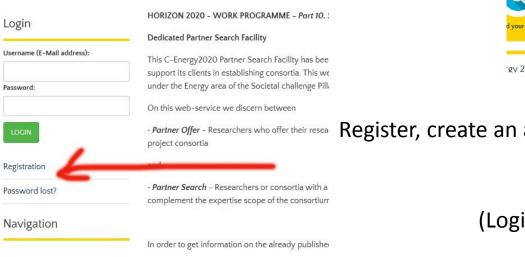


A Dedicated Partner Search (PS) tool for H2020 Energy topics



Go to http://www.c-energy2020.eu/

Select PS link





Register, create an account and password



Further Information

- " Horizon 2020 Helpdesk Research Enquiry Service: http://ec.europa.eu/research/index.cfm?pg=enquiries
- " Energy National Contact Points (NCPs) Network:
 - http://www.c-energy2020.eu/
- Enterprise Europe Network: <u>http://een.ec.europa.eu/about/branches</u>
- " Participant Portal:

http://ec.europa.eu/research/participants/portal/desktop/en/home.html





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Non esitate a contattarci!

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