



H2020 PARTNERSÉG

2018-2020. évi munkaprogram

Lorencz Kinga

Nemzeti Kutatási, Fejlesztési és Innovációs Hivatal

www.nkfi.gov.hu

Budapest 2017. December 12

Horizont 2020 Munkaprogram 2018-2020



- LC terület (**Low Carbon**): „Building a low-carbon, climate resilient future”
1971.45 millió € - felhívásonként **1 m € to 15 m €**

Témák

Energy efficiency, Global leadership in renewables, **Consumer engagement**, Smart citizen-centred energy system, **Smart Cities and Communities**, Near-zero CO2 emissions from fossil fuel power plants and carbon intensive industries, **Cross-cutting issues**, Joint Actions, **Transforming the energy sector through digitisation**, Sme instrument & Fast-track-to-innovation-

+ Energy Demo projects **15 to 75 m € TRL 7++**

- A felhívások időzítve, beadási határidők az év folyamán az egyes címeknél meghatározva

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-energy_en.pdf

- http://ec.europa.eu/research/participants/docs/h2020-funding-guide/grants/applying-for-funding_en.htm

AZ INNOVÁCIÓ LENDÜLETE



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

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Conditions for the Call - BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY

Opening date(s), deadline(s), indicative budget(s):¹²¹

Topics (Type of Action)	Budgets (EUR million)			Deadlines
	2018	2019	2020	
Opening: 31 Oct 2017				
LC-SC3-JA-4-2018 (CSA)	1.00			31 Jan 2018
LC-SC3-RES-11-2018 (RIA)	30.00			31 Jan 2018 (First Stage)
LC-SC3-RES-4-2018 (RIA)	27.50			23 Aug 2018 (Second Stage)
LC-SC3-RES-12-2018 (IA)	30.00			13 Feb 2018
LC-SC3-RES-13-2018 (IA)	45.00			
LC-SC3-RES-21-2018 (RIA)	25.00			
LC-SC3-RES-28-2018-2019-2020 (CSA)	15.00			

¹²¹ The Director-General responsible for the call may decide to open the call up to one month prior to or after the envisaged date(s) of opening.
 The Director-General responsible may delay the deadline(s) by up to two months.
 All deadlines are at 17.00.00 Brussels local time.
 The deadline(s) in 2019 and 2020 are indicative and subject to separate financing decisions for 2019 and 2020.
 The budget amounts for the 2018 budget are subject to the availability of the appropriations provided for in the draft budget for 2018 after the adoption of the budget 2018 by the budgetary authority or, if the budget is not adopted, as provided for in the system of provisional twelfths.
 The budget amounts for the 2019 and 2020 budget are indicative and will be subject to separate financing decisions to cover the amounts to be allocated for 2019 and for 2020.

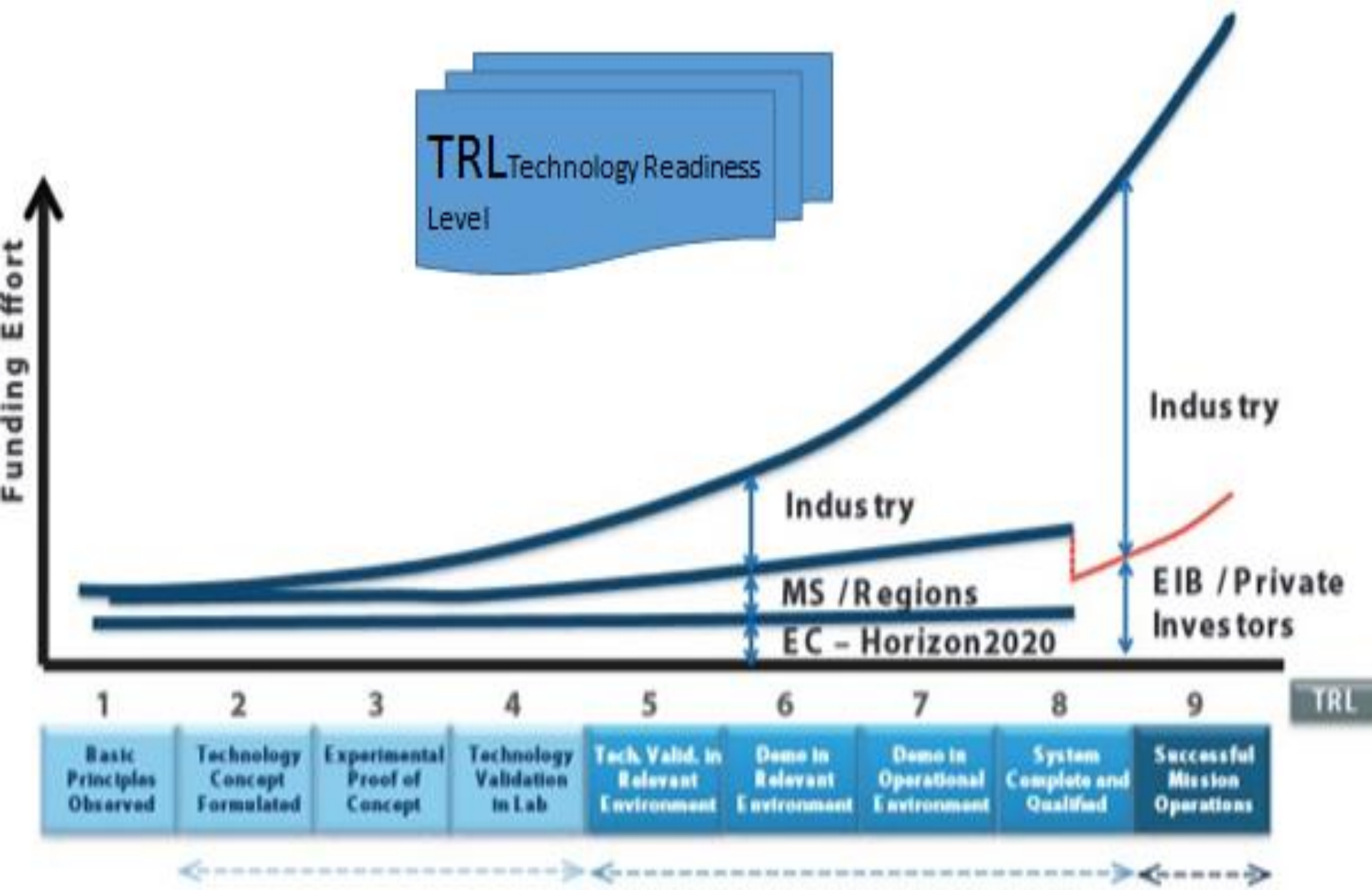
LC-SC3-RES-5-2018 (IA)	10.00			
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Horizon 2020 - Work Programme 2018-2020
Secure, clean and efficient energy

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1. Provision of technical assistance, IT tools, modelling and/or studies to collect and analyse relevant data and to properly assess complex technical, environmental, economic, legal and social aspects of energy efficiency	152
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3. Multiple Framework contract with reopening of competition for qualified legal, technical and economic expertise in the field of Energy Efficiency to support the Commission in the design, preparation and proper implementation of EU initiatives and legislation in the area of Energy Efficiency	154

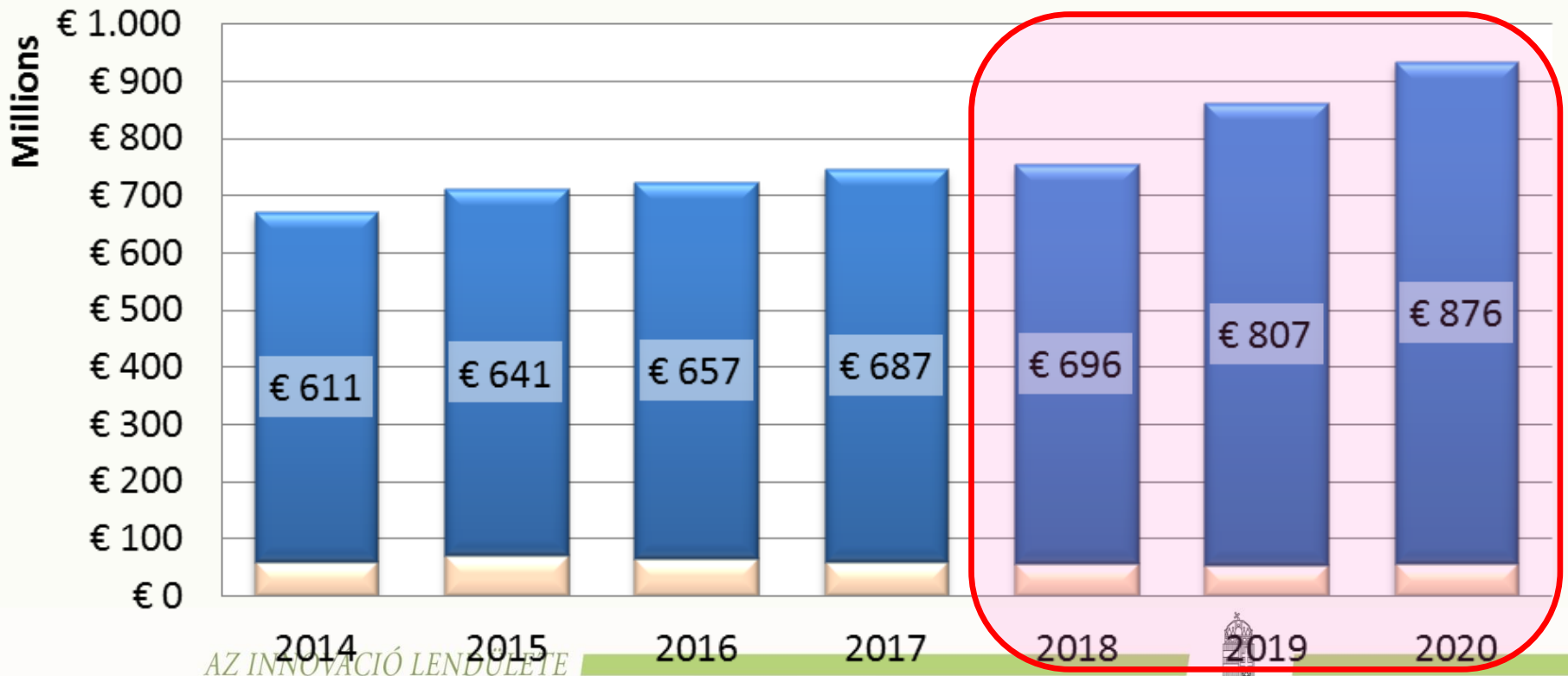
http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-eic_en.pdf

Overall synergy between private and public investments, highlighting industry leverage factor

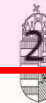


Work programme 2018-2020

■ Contribution of SC3 to FCH JU ■ Available budget SC3



AZ INNOVÁCIÓ LENDÜLETE



Thematic areas

Renewable energy

Energy system (including Smart Cities and Communities)

Energy efficiency

Decarbonising fossil fuels

Cross-cutting issues

- International cooperation
- Socio-economic research
- Market-creating breakthrough energy R&I
- Joint programming activities
- Financial Instrument



MAGYARORSZÁG
KORMÁNYA

Európai Unió
Európai Strukturális
és Beruházási Alapok



BEFEKTETÉS A JÖVŐBE

EU.KORMANY.HU
Európa-politikai kormányzati honlap



2017 november 8.

Értesítjük a Tisztelt támogatást igénylőket, hogy módosult a Széchenyi 2020 keretében megjelent „Innovációs voucher” című (GINOP-2.1.4-15 kódszámú) felhívás.

Mivel a felhívás módosítása érinti a kitöltő programot is, ezért a támogatási kérelmek beadhatósága átmenetileg szüneteltetésre kerül.

A hatályos szabályozással összhangban a támogatást igénylő, ha a támogatási kérelmet a módosítás előtti feltételekkel nyújtotta be, a felhívás módosítása miatt nem kerülhet kedvezőtlenebb helyzetbe azzal szemben, aki a támogatási kérelmet a módosított feltételeknek megfelelően nyújtotta be.

A beadás megnyílásának új időpontjáról közlemény ad majd tájékoztatást, kérem, hogy kövessék figyelemmel a www.palyazat.gov.hu oldalon megjelenő híreket.

Tájékoztatásként jelezzük, hogy a szünetelés nincs összefüggésben a keretek fogyásával. A beérkezett támogatási igények mennyisége nyomon követhető a www.palyazat.gov.hu oldalon a „Részletes információk / Eredmények / Fejlesztési információk / Aktuális statisztikák” menüpont alatt.”

A módosítások a felhívás alábbi pontjait érintették:

[Részletek itt](#)

Kapcsolódó pályázatok

A MUNKAPROGRAM 2018-2020

1. http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-energy_en.pdf
2. http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-eic_en.pdf
3. https://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html#h2020-work-programmes-2018-20
4. <https://ec.europa.eu/easme/en/horizon-2020-secure-clean-and-efficient-energy-info-day>

H2020 RIA & IA grants

Type of action & requirements:

General features/requirements for RIA and IA grants:

- Multi-beneficiary action
- Project:
 - RIA (research and innovation actions): R&D to establish new knowledge or explore the feasibility of a new or improved technology, product, process, service or solution (including basic and applied research, technology development and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment)
 - IA (innovation actions): innovation activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services (including prototyping, testing, demonstrating, piloting, large-scale product validation and market replication)
- Maximum funding: None — unless specified in the call
- Maximum duration: None — unless specified in the call
- Subtypes: Lump sum grant possible if provided in the call

Beneficiaries (composition of the consortium):

- Minimum 3 beneficiaries from 3 different EU Member States (MS) or H2020 associated countries (AC)
- Additional beneficiaries/linked third parties from any country allowed (with EU funding, normally only if listed in [General Annex A to the Main Work Programme](#))

Funding:

Type of grant: reimbursement of costs grant

Forms of costs:

Usually: actual costs + unit cost (average personnel costs; SME owners; specific unit costs, if option applies) + flat-rate costs (indirect costs)

For lump sum grants: lump sum

Budget categories:

Usually:

- direct personnel costs
- direct costs of subcontracting
- direct costs of providing financial support to third parties (if option applies)
- other direct costs
- indirect costs
- specific cost categories (if option applies)

For lump sum grants:

- costs for the action (direct and indirect costs)

Funding rate:

RIA: 100% of eligible costs (unless the call provides exceptionally for another rate)

IA: 70% (100% for non-profit organisations) of eligible costs (unless the call provides exceptionally for another rate)

H2020 CSA grants

Type of action & requirements:

General features/requirements for CSA (coordination and support action) grants:

- Multi/mono-beneficiary action
- Project: accompanying measures such as standardization, dissemination, awareness-raising and communication, networking, coordination or support services, policy dialogues and mutual learning exercises and studies (including design studies for new infrastructure and complementary activities of strategic planning, networking and coordination between programmes in different countries)
- Maximum funding: None — unless specified in the call
- Maximum duration: None — unless specified in the call
- Sub-types: Lump sum grant possible if provided in the call

Beneficiaries (composition of the consortium):

- Minimum 1 beneficiary from 1 EU Member State (MS) or H2020 associated country (AC)
- Additional beneficiaries/linked third parties from any country allowed (with EU funding, normally only if listed in [General Annex A to the Main Work Programme](#))

Funding:

Type of grant: reimbursement of costs grant

Forms of costs:

Usually: actual costs + unit cost (average personnel costs; SME owners; specific unit costs, if option applies) + flat-rate costs (indirect costs)

For lump sum grants: lump sum

Budget categories:

Usually:

- A. direct personnel costs
- B. direct costs of subcontracting
- C. direct costs of providing financial support to third parties (if option applies)
- D. other direct costs
- E. indirect costs
- F. specific cost categories (if option applies)

For lump sum grants:

- A. costs for the action (direct and indirect costs)

Funding rate: 100% of eligible costs (unless the call provides exceptionally for another rate)

Horizon 2020 (2014-2020)		
	Final breakdown	Estimated final amount in million euro (in current prices)
I Excellent science, of which:	31.73%	24 441
1. The European Research Council	17%	13 095
2. Future and Emerging Technologies	3.50%	2 696
3. Marie-Sklodowska-Curie Actions	8%	6 162
4. European research infrastructures (including eInfrastructures)	3.23%	2 488
II Industrial leadership, of which:	22.09%	17 016
1. Leadership in enabling and industrial technologies	17.60%	13 557
2. Access to risk finance	3.69%	2 842
3. Innovation in SMEs	0.80%	616
III Societal challenges, of which	38.53%	29 679
1. Health, demographic change and wellbeing;	9.70%	7 472
2. Food security, sustainable agriculture and forestry, marine maritime and inland water research and the Bioeconomy;	5%	3 851
3. Secure, clean and efficient energy	7.70%	5 931

4. Smart, green and integrated transport	8.23%	6 339
5. Climate action, environment resource efficiency and raw materials	4%	3 081
6. Europe in a changing world - Inclusive innovative and reflective societies	1.70%	1 309
7. Secure societies – Protecting freedom and security of Europe and its citizens	2.20%	1 695
Science with and for society	0.60%	462
Spreading excellence and widening participation	1.06%	816
European Institute of Innovation and Technology (EIT)	3.52%	2 711
Non-nuclear direct actions of the JRC	2.47%	1 903
TOTAL EU REGULATION	100%	77 028

Fusion indirect actions	45.42%	728
Fission indirect actions	19.68%	316
Nuclear direct actions of the JRC	34.90%	560
TOTAL EURATOM REGULATION 2014-2018	100%	1 603

Energy across Horizon 2020

Energy is also addressed in many Horizon 2020 parts

Bottom-up activities

- European Research Council (ERC)
- European Innovation Council (SME instrument, FTI pilot, FET, Prizes)
- Marie-Sklodowska Curie Actions

Industrial Leadership

- Materials
- PPPs on Energy-efficient Buildings and SPIRE
- Information and Communication Technologies
- Space (Galileo)

Societal Challenges (SC)

- SC2: Bioeconomy, Blue Growth
- SC4: Electric vehicles, Batteries, Energy-efficient transport
- SC5: Cities, Earth observation, raw materials, climate change mitigation strategies
- SC7: Cybersecurity, Critical energy infrastructure

-> Please check also calls of other Horizon 2020 parts!

Summary

The European Innovation Council (EIC) pilot supports innovators developing breakthrough innovations with the potential to create new markets and boost jobs, growth and prosperity in Europe.

- | | |
|--|--|
| SME Instrument | <i>Close-to-market and scale-up projects of a single SME or a consortium of SMEs established in EU Member States or Horizon 2020 associated countries.</i> |
| Fast Track to Innovation (FTI) | <i>Close-to-market projects of consortia with three to five entities from at least three different EU Member States or Horizon 2020 associated countries. Industry must participate. Interdisciplinary approaches encouraged.</i> |
| FET Open | <i>Early-stage, science and technology research by consortia exploring novel ideas for radically new future technologies that challenge current paradigms and venture into the unknown. Open to research into any area of technology. Aims to attract new, high-potential research and innovation players.</i> |
| Horizon Prizes | <i>Horizon Prizes boost breakthrough innovation by fostering solutions to challenges which bring major benefits to society.</i> |
| Support and Exploratory Actions | help to optimise the impact of EU investment in EIC innovators and innovations; they contribute to building an EIC community and a vision underpinning a possible future EIC. |



RESEARCH & INNOVATION

Participant Portal

European Commission > Research & Innovation > Participant Portal > Partner Search

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE PROJECTS & RESULTS EXPERTS SUPPORT ▾

LOGIN REGISTER

Reference Documents

Beneficiary Register

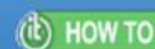
Partner Search

Financial Viability Self-Check

SME Participation



Partner Search



Find partners for your project ideas among the participants in past EU projects. Enter a keyword or a topic of a past call for proposals, for finding related organisations. Search by geographical criteria or by types of organisation. For more specialised partner search service see Online Manual.

Involvement of the organisation in EU funded programmes

Keyword(s)

Topic

Call

Programme

Organisation details

Organisation name

Organisation type

Country

City



List of partner offers

Home Page / partner search

Navigation

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Partner Search Home

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Search for Partner Profiles

List of Partner Searches

List of Partner Offers

Entries

Date	Topics	Type	
12/01/2017 13:03:17	LC-SC3-RES-21-2018 LC-SC3-RES-22-2018 LC-SC3-NZE-1-2018 LC-SC3-RES-11-2018 LC-SC3-RES-12-2018	Offer	<input type="button" value="SHOW"/>
11/24/2017 20:34:24	LC-SC3-RES-13-2018	Offer	<input type="button" value="SHOW"/>
11/24/2017 11:41:00	LC-SC3-EE-17-2019 LC-SC3-RES-1-2019-2020 LC-SC3-RES-4-2018 LC-SC3-RES-5-2018	Offer	<input type="button" value="SHOW"/>
11/09/2017 13:33:33	LC-SC3-RES-6-2018	Offer	<input type="button" value="SHOW"/>

Kis- és középvállalkozások

- Innovation in SMEs

Divinyi Ágnes

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Tel.: +36 1 896 3754

Többiek:

<http://www.h2020.gov.hu/horizont2020-program/nemzeti-kapcsolattarto>

PÁLYÁZATOK

K+F+I pályázatok ösztönző rendszere

Európai uniós forrásból finanszírozott pályázatok

Nemzeti Kutatási, Fejlesztési és Innovációs Alap (NKFIA) pályázatai

KFI versenypályázati tükör

Aktuális pályázati felhívások

Támogatott projektek

Pályázatok KFI szakpolitikai véleményezése

Elektronikus Pályázati Rendszer (EPR)

Pályázati archívum

Letölthető dokumentumok

Kedvezményezettek kommunikációs kötelezettségei

Testületek, bizottságok

Felhívás szakmai bírálóknak

Pályázati statisztikák

Open Access

Meggyőző eredmények, példaértékű sikerek

A hazai kutatást, fejlesztést és innovációt ösztönző pályázati felhívások, 2015-2017



Az NKFI Hivatal 2015-ben egységes versenypályázati rendszert alakított ki a K+F+I célú uniós fejlesztési források és a hazai Nemzeti Kutatási, Fejlesztési és Innovációs Alap (NKFI Alap) forrásainak koordinált, célszerű és értékteremtő felhasználására. A versenypályázati portfólió összehangolt felhívásai a tudományos kutatásokat, a vállalati fejlesztéseket és az innovatív ötletek megvalósítását egyaránt ösztönzik.

Az NKFI Alap 2017. évi, összességében több mint 90 milliárd forint keretösszegű felhívásokat tartalmazó programstratégiáját a *Kormány 1762/2016. (XII. 15.) számú határozata* ismerteti.

Az uniós finanszírozású operatív programok (GINOP és VEKOP) vissza nem térítendő és visszatérítendő KFI célú pályázati konstrukcióinak ütemezéséről és keretösszegeiről – az NKFI Hivatal javaslata alapján – az Éves Fejlesztési Keret elfogadásakor döntött a Kormány.

Az alábbi táblázat források szerinti bontásban tartalmazza a főbb célkitűzésekkel [vállalati kutatásfejlesztés és innováció, ipari-akadémiai és -egyetemi tudástransfer, kutatási infrastruktúra fejlesztése, felfedező kutatás, valamint nemzetközi együttműködési programok ösztönzése] összefüggő felhívásokat és azok keretösszegét.

Forrás	Megjegyzés	Keretösszeg 2015 (Mrd Ft)		Keretösszeg 2016 (Mrd Ft)		Keretösszeg 2017 (Mrd Ft)	
		vissza nem térítendő	vissza nem térítendő	vissza-térítendő	vissza nem térítendő	vissza-térítendő	
GINOP	Gazdaságfejlesztési és Innovációs Operatív Program a Közép-Magyarország régió kivételével az egész országból pályázható	255,91	215,92	110,09	17	80	
VEKOP	Versenyképes Közép-Magyarország Operatív Program kizárólag a Közép-Magyarországi régió számára biztosít forrásokat	-	42,64	-	-	5,49	
NKFI Alap	A Nemzeti Kutatási, Fejlesztési és Innovációs Alap a hazai gazdasági társaságok által befizetett innovációs járulékból képzett pályázati alap	11,29	68,43	-	89,21	-	
Cél	Pályázatok	Keretösszeg 2015 [Mrd]		Keretösszeg 2016 [Mrd]		Keretösszeg 2017 [Mrd]	
		vissza nem térítendő	vissza nem térítendő	vissza-térítendő	vissza nem térítendő	vissza-térítendő	
	Vállalatok önálló K+F+I tevékenységének támogatása GINOP-2.1.1-15; VEKOP-2.1.1-15; KFI_16; [KFI_16 2., 3. forduló - hamarosan]	50	22	-	-	-	
			19,97	-	-	-	
			21	-	35,44	-	
	Vállalati K+F+I, hitel GINOP-8.1.1-16	-	-	40,09	-	-	
	Vállalati K+F+I, hitellel kombinált GINOP-2.1.2-8.1.4-16	-	80	40	-	-	
	Nemzeti Technológiai és Szellemi Tulajdon kockázati tőkeprogram GINOP-8.1.3/A-16	-	-	30	-	-	
	Intelligens szakosodási kockázati tőkeprogram GINOP-8.1.3/B-17; VEKOP 2.1.2-17	-	-	-	-	70	
		-	-	-	-	5,49	
	Nemzeti Tőkealap	-	-	-	-	10	



Horizon 2020 Energy - Brokerage Event

Calls for Work Programme 2018 - 2020

24 October 2017 | Brussels, Belgium

<https://www.b2match.eu/energycall2018>

Home

Participants

Agenda

How it works?

Location

Infodays

C-Energy 2020

NUCL-EU 2020

Contact

Login

We would like to thank all participants and co-organisers
for making this event a real success!

260 participants from 34 countries discussed potential cooperations in 1100 meetings.

Registration

closed since 10 Oct 2017

ORGANISERS



Are you interested in submitting a proposal for "Energy" in Horizon 2020?

GET INVOLVED in the next H2020 Energy Proposals!
A Brokerage Event in the field of Energy Technologies



Business Support on Your Doorstep

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★ Profile Type

★ Countries

Hungary (4)

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Hungarian Development Centre

Hungary, Budapest
András Bózsik, MSc, Deputy director

[Show Profile](#)

H2020 Partner Profile

Energy. The aim of Hungarian Development Center (HDC) is to represent Hungarian and Carpatian Ba...



Hungarian Development Centre

Hungary, Budapest
Andrea Nagy, Innovation key account manager

[Show Profile](#)

H2020 Partner Profile

Energy. The Hungarian Development Center is a state owned company under the supervision of the ...



NKM Nemzeti Közművek Zrt.

Hungary, Budapest
Géza Pálfi, dr.,

[Show Profile](#)

Technology Co-oper...

Manager for energy storage and network tenders. More...



Szent Istvan University

Hungary, Godollo
Marta Szabo, Dr,

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H2020 Partner Profile

Efficiency of operation of building integrated renewables. The Department is one of the main instituti...



Calls for Work Programme 2018 - 2020

24 October 2017 | Brussels, Belgium

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- H2020 Coordinator Profile (2)
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IZNAB SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA

Poland, Warsaw
Emil LEZAK, Dr., General Manager

Show Profile

- H2020 Coordinator ...** Research and Innovation opportunities under Horizon 2020. IZNAB is looking for cooperation with La...
- H2020 Partner Profile** LCA/LCCA assessment. All the process of LCA/LCCA is following an approach to verify the performanc...
- H2020 Partner Profile** IIoT for Manufacturing Industry. IZNAB has an extensive expertise in Industry IoT and Industry 4.0 so...



Zittau/Görlitz University of applied Sciences

Germany, Zittau
Clemens Schneider, Dr.-Ing., Project Manager

Show Profile

- H2020 Partner Profile** University with numerous third party research projects in the field of energy technology. Studying at t...
- H2020 Partner Profile** MSCA-ITN-ETN European Training Networks 2018/2019: Flexible electric power supply using thermal ...
- H2020 Partner Profile** ICT-11-2018-2019, ICT-12-2018-2020 and DT-ICT-05-2020: Intelligent analyze methods for smart indus...
- H2020 Coordinator ...** MSCA-ITN-ETN European Training Networks 2018/2019: secure design and operation of large scale te...

...

ICT-11-2018-2019, ICT-12-2018-2020 and DT-ICT-05-2020: Intelligent analyze methods for smart industrial processes

The Department of "Measurement Technology and Process Automation" deals with large-scale test facilities and data evaluation processes for big data analyzes in the field of energy supply.

We operate a large scale test facility with dynamic data acquisition of 700 measuring points of (pressure, temperature, mass flow,...)

- || We develop model based measurement methods and evaluation algorithms
- || Cloud based automation systems and security analyses
- || We develop and operate dynamic simulation software for predicting the specific system behavior

TYPE

[H2020 Partner Profile](#)

DATE

October 23, 2017

...

MSCA-ITN-ETN European Training Networks 2018/2019: secure design and operation of large scale test facilities

The Department of "Measurement Technology and Process Automation" has large experiences in designing, constructing and operating different kinds of test facilities. We are focused on the flexibility of electric power supply by using thermal energy storage systems and develop integration and automation concepts to compensate volatile power supply by renewables.

- || We operate a large scale "Thermal Energy Storage Test Facility" with a water-steam process up to 60 bar (160 bar) and 350 °C.
- || We design flexibility concepts for energy processes.
- || We develop dynamic models to simulate process and automation of high performance energy processes using own developed and commercial simulation codes.

Describe clearly type and qualification of co-operation partner sought:

We are looking for SME's, Industrial Partners and Research Institutions in the energy sector, specially innovative and flexible electric supply by thermal plants.

TYPE

[H2020 Coordinator Profile](#)

DATE

October 23, 2017





ERRIN European Regions
Research and Innovation Network

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Working Group

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Energy Efficiency for public water / hydric infrastructure – Efficiency 4 Water (INTERREG CENTRAL EU...

|| Deadline of the Call: 25/01/2018
|| Publish Date: 04 December, 2017

The project aims at developing a standardized method to improve energy performance of the public...

[Read More](#)

The Future of School Toilets - Partner search – an Interreg Baltic Sea Region project proposal

|| Deadline of the Call:
|| Publish Date: 30 November, 2017

Background - State of the art In Denmark, 40.000 children experience difficulties keeping the...

[Read More](#)

FETFLAG-03-2018 - Project search by the Catholic University San Antonio in Murcia (SPAIN)

|| Deadline of the Call: 20/02/2018
|| Publish Date: 23 November, 2017

The Catholic University San Antonio in Murcia (UCAM) is looking to be a partner within a consortium...

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- https://ec.europa.eu/research/participants/portal/desktop/en/organisations/partner_search.html

- <https://www.nks-energie.de/>

Köszönöm a figyelmet!

Lorencz Kinga

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