

OPPORTUNITIES WITHIN THE H2020 „ENERGY” PROGRAMME

and THE NATIONAL CONTACT POINT SERVICES OF THE NRDI OFFICE

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National Research, Development and Innovation Office

23.04.2018. Budapest



Horizon 2020 <https://ec.europa.eu/programmes/horizon2020/>

- Horizon 2020 is the biggest EU Research and Innovation program ever
- €80 billion of funding available over 7 years (2014 to 2020) –
- in addition to the private investment that this money will attract.
- By coupling research and innovation, Horizon 2020 is helping to achieve this with its emphasis on **excellent science, industrial leadership** and tackling **societal challenges**.
- **Horizon 2020 is open to everyone**, with a simple structure
- Hungarian official info: <http://www.h2020.gov.hu/>
- The **Energy Challenge** is designed to support the transition to a reliable, sustainable and competitive energy system. The list of calls is the **Work Programme** – titled: **10. Secure, clean and efficient energy**

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

<https://ec.europa.eu/programmes/horizon2020>

- What is Horizon 2020?
- What is a Work Programme?
- Horizon 2020 programme sections**
- Experts
- Official Documents
- Evaluations and monitoring
- History
- Horizon 2020 statistics



Find Your area

Horizon 2020 sections

Work programme general introduction, including focus area

- Excellent Science
 - European Research Council
 - Future and Emerging Technologies
 - FET Open
 - FET Proactive
 - FET Flagships
 - Marie Skłodowska-Curie actions
 - Research Infrastructures, including e-Infrastructures

- Industrial Leadership
 - Leadership in Enabling and Industrial Technologies
 - Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology
 - Information and Communication Technologies
 - Space
 - Access to risk finance
 - Innovation in SMEs

- Societal Challenges**
 - Health, Demographic Change and Wellbeing
 - Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy
 - Secure, Clean and Efficient Energy**
 - Smart, Green and Integrated Transport
 - Climate Action, Environment, Resource Efficiency and Raw Materials
 - Europe in a changing world - Inclusive, innovative and reflective societies
 - Secure societies - Protecting freedom and security of Europe and its citizens



#H2020

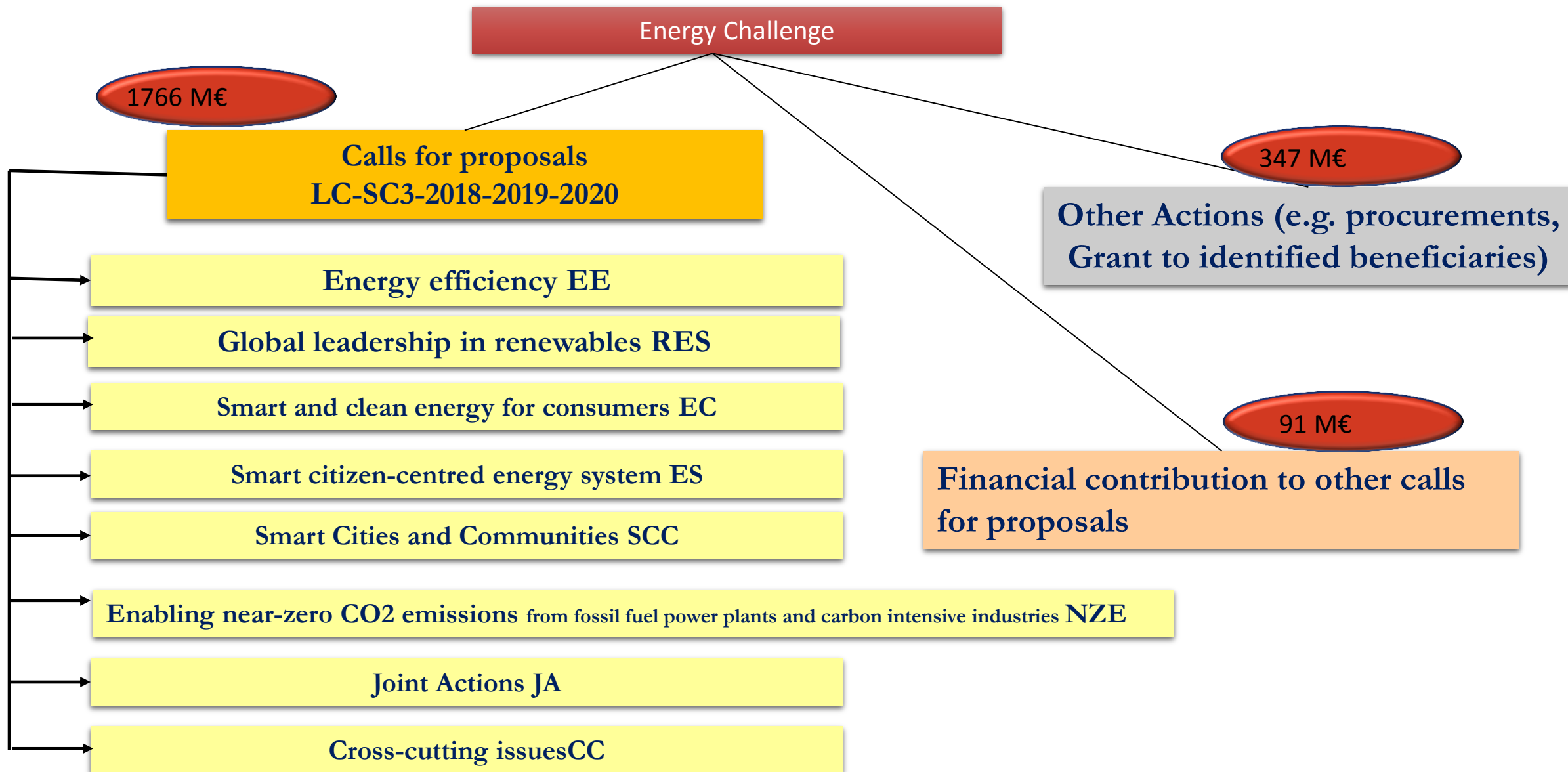
Horizon 2020eu @EU_H2020
#FF #H2020
@MCDS_Therapy
@BOND_project_EU
@softlanding_eu
@PRIMAVERA_H2020
@SilverSanteEU
@BRAVE_H2020
@waste4think
@SUCCESS_H2020
@SocialCar_RDI
@NorsepowerLtd
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Horizon 2020eu @EU_H2020
"I welcome the @EIB Assessment Report 'Access to Finance for Innovative Road Transport' Easier access to finance can make the difference in 3 key areas ☐urban green mobility ☐ low carbon vehicles 🚗 automated&connected road transport"
@EUScienceInnov DG Jean-Eric Paquet #TRA2018 pic.twitter.com/QzyXyXuu 53
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YOUR FEEDBACK

Overview of Energy Challenge activities

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



Next Deadlines

1. Global leadership in renewables- **RES** - **16. October, 11. December 2018.**
2. Energy efficiency –**EE** – **4. September 2018.**
3. Smart and clean energy for consumers – **EC** - **4. September 2018**
4. Smart citizen-centred energy system –**ES** -2019.
5. Smart Cities and Communities - **SCC** -**2019.**
6. Enabling near-zero CO2 emissions from fossil fuel power plants and carbon intensive industries
NZE – **6. September 2018**
7. Joint Actions between countries –**JA**- **11. September 2018.**
8. Cross-cutting issues –**CC** -**6. September 2018**
9. TRANSFORMING THE ENERGY SECTOR THROUGH DIGITISATION **DT-ICT, SU-DS-** **14.November 2018.**
10. Continuous for SME-s (**H2020-EIC-SMEInst-2018-2020**) and **EIC-Fast-Track-to-Innovation** (**H2020-EIC-FTI-2018-2020**)



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

HORIZON 2020 ONLINE MANUAL

- **The first steps** to prepare your proposal and apply for EU research funding.
- **Learn** how to find a suitable Call for proposals or project partners and how to submit your proposal.
- **Guidance services** facilitate your participation:
http://ec.europa.eu/research/participants/docs/h2020-funding-guide/index_en.htm
- **H2020 Online Manual: step-by-step online guide** through the Portal processes from proposal preparation and submission to reporting on your on-going project
- **Reference documents:** library of legal documents, guidance notes, and additional reference material for H2020 and FP7
- search for already registered organisations and their **PICs**
- **H2020 Financial viability self-check tool** allows you simulating the financial viability check of your organisation
- **SME participation:** dedicated H2020 guidance page for SME



General Annexes- All the Rules-

- http://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-ga_en.pdf
- LIST OF COUNTRIES ELIGIBLE FOR FUNDING
- STANDARD ADMISSIBILITY CONDITIONS, PAGE LIMITS AND
- SUPPORTING DOCUMENTS
- STANDARD ELIGIBILITY CONDITIONS
- SPECIFIC PROVISIONS AND FUNDING RATES
- EVALUATION RULES etc
- Etc.....
- BUDGET FLEXIBILITY ..



Thematic National Contacts in the NRDI Office

020.gov.hu/horizont2020-program/nemzeti-kapcsolattarto

HORIZONT 2020
PROGRAM

HOGYAN
PÁLYÁZZUNK

I. KIVÁLÓ
TUDOMÁNY

II. IPARI VEZETŐ
SZEREP

III. TÁRSADALMI
KIHÍVÁSOK

KAPCSOLÓDÓ
FELHÍVÁSOK

- > A H2020 Keretprogram háttere, alapdokumentumok
- > Nemzeti Kapcsolattartó Pontok (NCP)
- > Programbizottsági tagok (PC)
- > Brüsszeli TÉT attasék
- > Aktualitások
- > Hazai rendezvények
- > Nemzetközi rendezvények
- > Jelentkezzen értékelőnek
- > Partnerkeresés
- > Kiadványok
- > Sajtómegjelenések, média
- > Előadások
- > Hasznos linkek

Kövessen híreinket



Horizont 2020 Program >> Nemzeti Kapcsolattartó Pontok (NCP)

Horizont 2020 nemzeti kapcsolattartói hálózat (NCP)

A korábbi keretprogramok tapasztalataira építve és a Horizont 2020 program támogatására minden EU tagállamban és társult országban – köztük Magyarországon is – létrejött a Nemzeti Kapcsolattartói Hálózat (angolul National Contact Points, NCP), amelynek munkatársai kulcsszerepet játszanak a magyar részvétel sikerességében. Az NCP-k fő feladata, hogy a Horizont 2020 egyes alprogramjaihoz kapcsolódva **magas színvonalú, professzionális és ingyenesen elérhető támogatást nyújtsanak** a potenciális pályázók (kutatóintézetek, egyetemek, vállalatok, nonprofit intézmények, egyéni kutatók) részére.

Tevékenységük a következőkre terjed ki:

- **információterjesztés:** információs napok szervezése, előadások tartása az aktuális pályázati felhívásokról, újdonságokról;
- **pályázati tanácsadás:** konzultációk, tréningek, workshopok, célzott és általános képzések szervezése a pályázással kapcsolatban; telefonos, személyes konzultáció;
- **projektpartner keresésben való közreműködés;**
- szerződés-kötésben és projektmenedzsmentben való segítségnyújtás.

Az NCP-k munkájának koordinációját Magyarországon az NKFI Hivatal látja el.

Nemzeti Kapcsolattartók koordinátora
(NCP coordinator)

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



NEMZETI KUTATÁSI, FEJLESZTÉSI
ÉS INNOVÁCIÓS HIVATAL

Domestic Support for RTD and H2020 participation

- **National RDI Office -National Research, Development and Innovation Fund**

<http://nkfi.gov.hu/funding/portfolio-of-calls-to>

<http://nkfi.gov.hu/palyazatok/hazai-kfi-palyazatok>

E.g: Preparation work, participating in brokerage events etc. 2018-**2.1.2-EU_KP**

<http://nkfi.gov.hu/palyazatok/hazai-kfi-palyazatok/nkfi-palyazatok/palyazati-felhivasok/2018/eu-programokban-reszvetel-osztonzese/2018-212-eu-kp>

Deadline continuous, final:

2018. September 28.

- **National Contact Points for H2020**

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



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)

Toolbox – Grant-based actions

Type of actions	Eligibility conditions for participation	Standard funding rate
Research & innovation actions (RIA)	At least three legal entities each established in a different Member State (MS) or an Associated Country (AC)	100%
Innovation actions (IA)	At least three legal entities each established in a different MS or an AC	70% (100% for non-profit legal entities)
Coordination & support actions (CSA)	At least one legal entity established in a MS or AC	100%
ERA-NET Cofund actions	At least three legal entities each established in a different MS or an AC; must be " programme owners or managers "	33%
PCP/PPI actions	At least three legal entities each established in a different MS or AC. Out of which, minimum two "public procurers"	See call conditions
European Joint Programme (EJP) Cofund actions	At least five legal entities each established in a different MS or AC. Must be " programme owners or managers "	Up to 70% - see call conditions



Technology Readiness levels

A single set of rules is now applicable to the whole innovation chain, ranging from frontier research over technological development to “close to market” applications.

(Other forms: pre-commercial procurement and procurement for innovative solutions.)

TRL 0: Idea. Unproven concept, no testing has been performed.

TRL 1: Basic research. Principles postulated and observed but no experimental proof available.

TRL 2: Technology formulation. Concept and application have been formulated.

TRL 3: Applied research. First laboratory tests completed; proof of concept.

TRL 4: Small scale prototype built in **a laboratory** environment ("ugly" prototype).

TRL 5: Large scale prototype tested in intended environment.

TRL 6: Prototype system tested in intended environment close to expected performance.

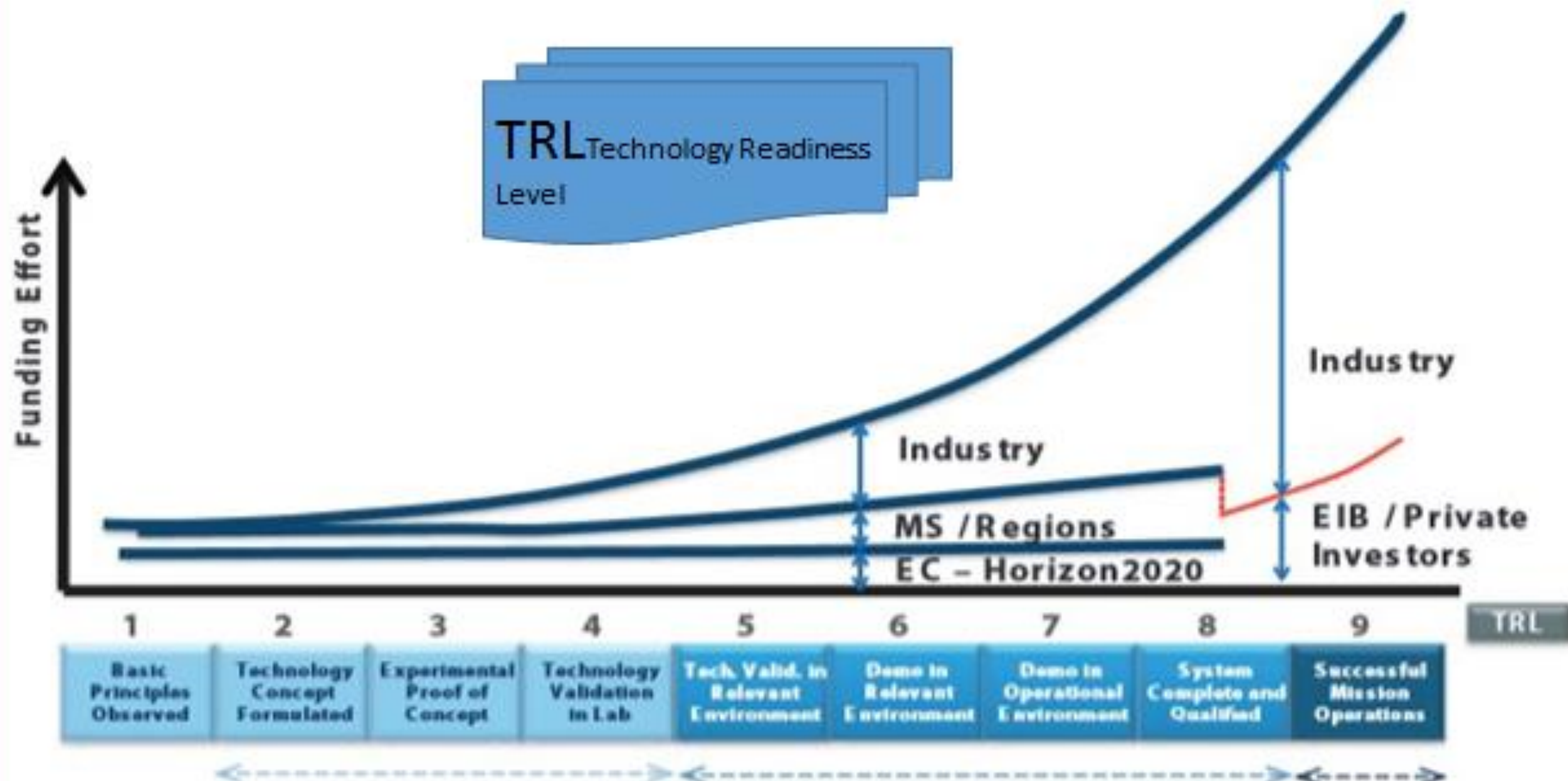
TRL 7: Demonstration system operating in operational environment at pre-commercial scale.

TRL 8: First of a kind commercial system. Manufacturing issues solved.

TRL 9: Full commercial/market application, technology available for consumers.



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



Energy is also addressed in many Horizon 2020 parts

BOTTOM-UP

- 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)

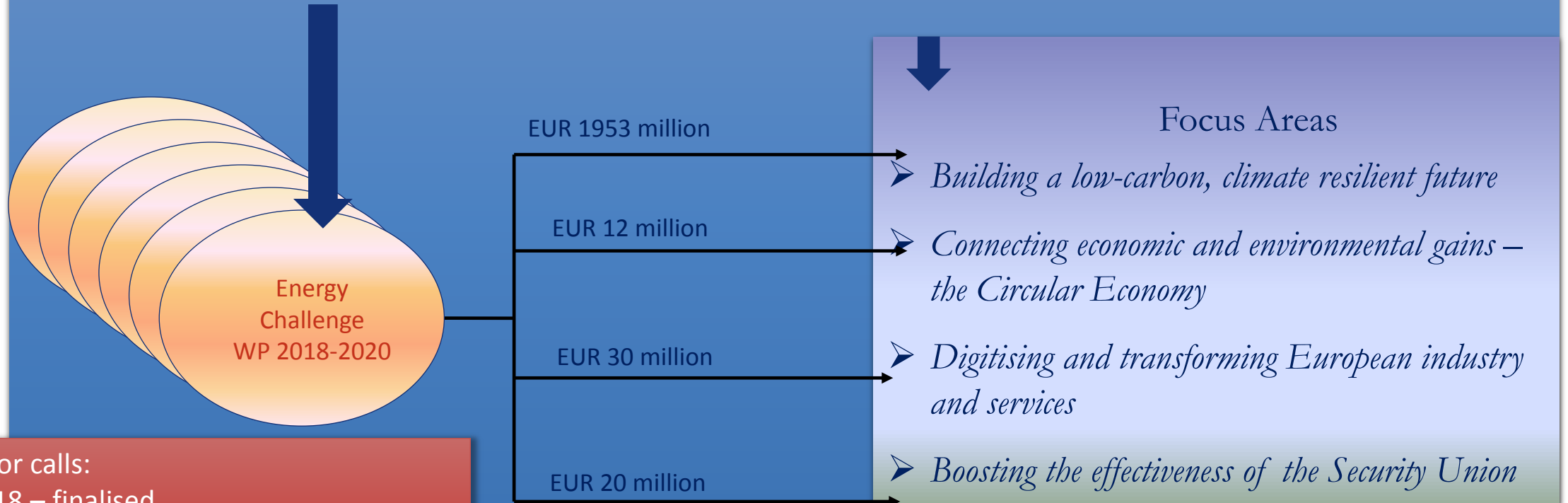
- SC2: Bioeconomy, Blue Growth
- SC4: Electric vehicles, Batteries, Energy-efficient transport
- SC5: Cities, Earth observation, raw materials, climate change mitigation strategies
- SC7: Cybersecurity, Critical energy infrastructure



Horizon 2020 work programme 2018-2020

Horizon 2020 work programme 2018-2020

- Total budget envelope: ~ EUR 30 billion
- Covering 18 programme parts (e.g. Energy Challenge) contributing to various extents to focus areas (virtually linked calls)

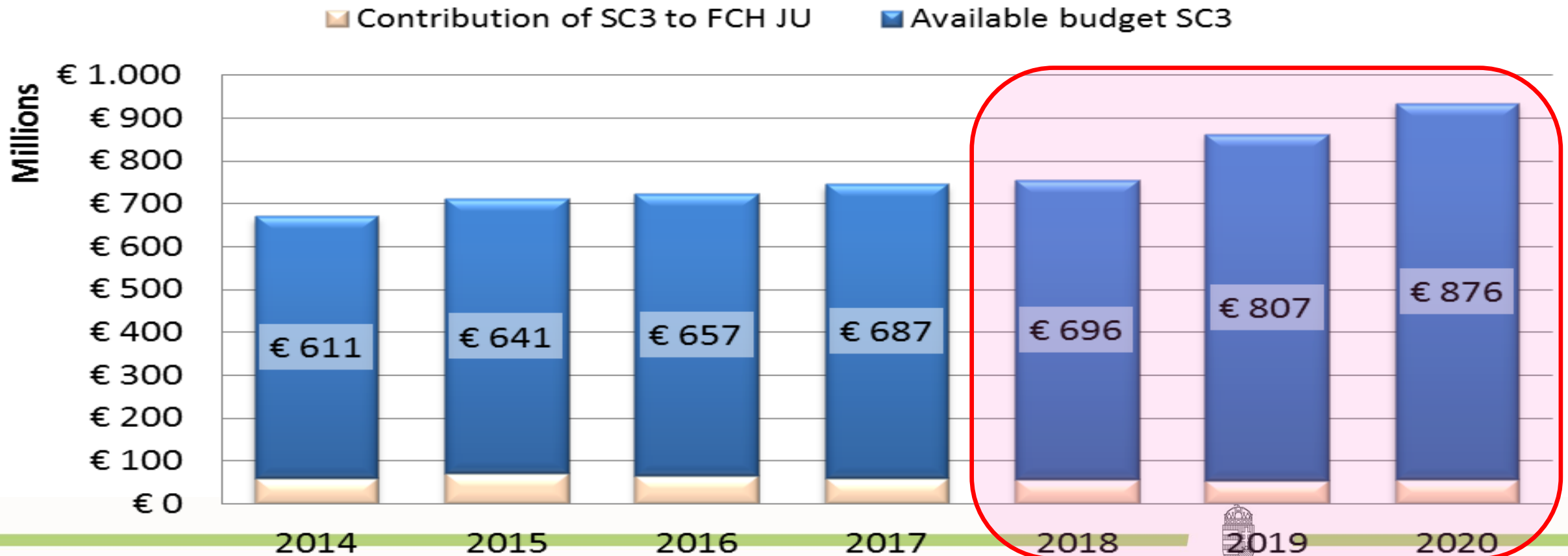


Texts for calls:

- 2018 – finalised
- 2019 – to be confirmed mid-2018
- 2020 – to be added as of mid-2018

SC3- Thematic Work Programme 2018-2020

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



LC-SC3-CC-4-2018: Support to sectorial fora	120
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1. Horizon prizes launched under the Work Programme 2016-2017 of the Horizon 2020 Societal Challenge "Clean Secure and efficient energy" (SC3).....	137
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Grants to identified beneficiaries.....	138
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1. Fostering transnational cooperation between National Contact Points (NCP) in the area of Energy: follow-up project.....	138
2. 5th Concerted Action on the Energy Performance of Buildings Directive support to Member States and participating countries for the implementation of the EPBD	140
3. Support to joint surveillance actions for market surveillance by the Member States with the aim to strengthen coordination between the relevant authorities, share best practices, exploit synergies in product testing and improve compliance with legislation	143
4. Support to the coordination of national research and innovation programmes in the areas of activities of the European Energy Research Alliance (EERA)	148
5. Support to the initiative on sustainable energy in the defence and security sector	149
6. Support to the Austrian Presidency Conference on the European Strategic Technology Plan (SET-Plan) 2018.....	150
7. Support to disruptive innovation in clean energy technologies	150
8. Contribution to the IEA & Energy Transition Support.....	151

Public procurements	152
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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
2. Study on the role of smart technologies in residential buildings	153
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

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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Budget in 2018 (in million of €)

Opening: 05 Dec 2017			
LC-SC3-ES-3-2018-2020 (IA)	26.30		05 Apr 2018
LC-SC3-ES-4-2018-2020 (IA)	19.00		
LC-SC3-ES-5-2018-2020 (IA)	30.00		
LC-SC3-ES-7-2018 (CSA)	3.00		
LC-SC3-RES-22-2018 (IA)	20.00		
LC-SC3-SCC-1-2018-2019-2020 (IA)	43.00 ₁₂₂		19 Apr 2018
LC-SC3-CC-4-2018 (CSA)	8.50		
LC-SC3-RES-2-2018 (RIA)	12.00		
Opening: 25 Jan 2018			
LC-SC3-EC-1-2018-2019-2020 (CSA)	5.00		04 Sep 2018
LC-SC3-EC-2-2018-2019-2020 (CSA)	5.00		
LC-SC3-EE-1-2018-2019-2020 (IA)	9.00		
LC-SC3-EE-10-2018-2019-2020 (CSA)	6.00		
LC-SC3-EE-11-2018-2019-2020 (CSA)	7.00		
LC-SC3-EE-13-2018-2019-2020 (CSA)	4.00		
LC-SC3-EE-14-2018-2019-2020 (RIA)	4.00		
LC-SC3-EE-15-2018 (CSA)	5.00		
LC-SC3-EE-16-2018-2019-2020 (CSA)	8.00		

LC-SC3-EE-2-2018-2019 (CSA)	7.00		
LC-SC3-EE-5-2018-2019-2020 (CSA)	5.00		
LC-SC3-EE-6-2018-2019-2020 (IA)	9.00		
LC-SC3-EE-8-2018-2019 (CSA)	10.00		
LC-SC3-EE-9-2018-2019 (CSA)	6.00		
Opening: 15 May 2018			
LC-SC3-JA-1-2018 (ERA-NET-Cofund)	10.00		11 Sep 2018
LC-SC3-JA-2-2018 (CSA)	6.00		
CE-SC3-NZE-2-2018 (RIA)	12.00		06 Sep 2018
LC-SC3-CC-1-2018-2019-2020 (RIA)	10.00		
LC-SC3-CC-2-2018 (RIA)	5.00		
LC-SC3-CC-5-2018 (CSA)	4.00		
LC-SC3-CC-6-2018 (CSA)	2.00		
LC-SC3-NZE-1-2018 (RIA)	20.00		
LC-SC3-NZE-3-2018 (CSA)	3.00		
Opening: 01 Aug 2018			
LC-SC3-RES-1-2019-2020 (RIA)		20.00	16 Oct 2018 (First Stage) 25 Apr 2019 (Second Stage)
LC-SC3-RES-14-2019 (RIA)		20.00	
LC-SC3-EE-17-2019 (CSA)		11.00	05 Feb 2019
Opening: 05 Sep 2018			
LC-SC3-RES-15-2019 (IA)		25.00	11 Dec 2018
LC-SC3-RES-17-2019 (IA)		40.00	
LC-SC3-RES-24-2019 (IA)		20.00	
LC-SC3-RES-28-2018-2019-2020 (CSA)		15.00	



Budget 2019-2020.

LC-SC3-RES-8-2019 (IA)	15.00		
LC-SC3-ES-1-2019 (IA)	37.30		05 Feb 2019
LC-SC3-ES-2-2019 (IA)	25.00		
LC-SC3-ES-6-2019 (RIA)	25.35		
LC-SC3-ES-8-2019 (CSA)	10.00		
LC-SC3-SCC-1-2018-2019-2020 (IA)	73.00 ¹²³		
Opening: 14 Nov 2018			
LC-SC3-CC-3-2019 (CSA)	2.00		27 Aug 2019
LC-SC3-JA-3-2019 (PCP)	20.00		
LC-SC3-JA-5-2019 (COFUND-EJP)	15.00		
Opening: 24 Jan 2019			
LC-SC3-EC-1-2018-2019-2020 (CSA)	5.00		03 Sep 2019
LC-SC3-EC-2-2018-2019-2020 (CSA)	5.00		
LC-SC3-EE-1-2018-2019-2020 (IA)	12.00		
LC-SC3-EE-10-2018-2019-2020 (CSA)	6.00		
LC-SC3-EE-11-2018-2019-2020 (CSA)	6.00		
LC-SC3-EE-13-2018-2019-2020 (IA)	8.00		
LC-SC3-EE-14-2018-2019-2020 (RIA)	4.00		
LC-SC3-EE-16-2018-2019-2020 (CSA)	10.00		
LC-SC3-EE-2-2018-2019 (CSA)	10.00		
LC-SC3-EE-3-2019-2020 (CSA)	6.00		

LC-SC3-EE-4-2019-2020 (IA)	10.00		
LC-SC3-EE-5-2018-2019-2020 (IA)	10.00		
LC-SC3-EE-6-2018-2019-2020 (CSA)	10.00		
LC-SC3-EE-8-2018-2019 (CSA)	5.00		
LC-SC3-EE-9-2018-2019 (CSA)	4.00		
Opening: 07 May 2019			
LC-SC3-CC-1-2018-2019-2020 (RIA)	10.00		27 Aug 2019
LC-SC3-NZE-4-2019 (IA)	20.00		
LC-SC3-NZE-5-2019-2020 (IA)	33.00		
LC-SC3-RES-16-2019 (RIA)	15.00		
LC-SC3-RES-23-2019 (RIA)	20.00		
LC-SC3-RES-7-2019 (RIA)	10.00		
Opening: To be defined			
Focus area topic(s) for 2020		642.81	To be defined
Overall indicative budget	537.30	592.65	642.81



Support for H2020 partner search

1. The EC made available a partner search tool function on the Participant Portal. It allows to look for partners directly **in the announcement of the topic**.

The link to the platform:

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

2. You can register in the partner search tool, created by the European network of SC3 NCPs. The tool allows to find cooperation possibilities. You should register on the platform and provide your information. Or discuss with NATIONAL NCP.

The link to the platform

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



Develop your own Profile

Finding Partners and Joining takes months!

**PARTNER
PROFILE/request
Participant portal**

**OWN
PARTNER
PROFILE**

**PUBLISHING
THE PROFILE**

NCP

**FINDING A SUCCESSFUL
CONSORTIUM NEEDS
WORK/TIME**

**PARTICIPANT
PORTAL**

**OWN
PROFESSIONAL
CONNECTIONS**

**B2MATCH
EVENTS**

http://cordis.europa.eu/projects/home_en.html





European
Commission

European Innovation Council: pilot 2018-2020

€ 2.7 billion to support +5,000 SMEs and innovators

ECOSYSTEM SUPPORT: COACHING, MENTORING for all beneficiaries

**Early stage
science & tech**
*Emerging tech,
Visionary Ideas*

Test and co-create
*Demonstrate,
validate*

**Feasibility /
Startup**

Development

**Scale up
Investment**

FET-OPEN
Future
Emerging
Technologies

FTI
Fast Track to
Innovation

**SME
Instrument
Phase 1**

**SME
Instrument
Phase 2**

Soft blending

6 EIC HORIZON PRIZES:

1. Innovative Batteries for eVehicles
2. Fuel from the Sun: Artificial Photosynthesis
3. Early Warning for Epidemics
4. Blockchains for Social Good
5. Low-Cost Space Launch
6. Affordable-HighTech for Humanitarian Aid

MARKET CREATING

Instrument →	SME-Instrument		FTI	FET-Open	EIC Horizon prizes
	Phase 1	Phase 2			
For whom	One or more eligible ¹ SMEs		From 3 to 5 eligible ¹ entities (mostly industrial ²)	At least 3 entities ³	One or more entities (with restrictions ¹ for some of the prizes)
Maximum funding⁴	50,000 €	2.5 M€	3 M€	3 M€ (RIAs) 0.5 M€ (CSAs)	Varies for each prize
Total budget 2018-20	164 M€	1425 M€	300 M€	647 M€ (RIAs) 10 M€ (CSAs)	40 M€
Focus	Exploring the feasibility of a business idea (~ 6 months)	Breakthrough innovation & international growth (12-24 months)	Close-to-market innovation	Radically new technologies	6 different topics (major societal issues)

(1) Applicants must be established in an EU Member State or in a country associated to Horizon 2020

(2) This industry involvement implies: (a) either the allocation of at least 60% of the budget to industry participants in the consortium, or (b) the presence of a minimum number of two industry participants in a consortium of three or four partners, or of three industry participants in a consortium of five partners

(3) A FET-Open consortium must always include at least 3 participants from 3 different EU Member States or Associated Countries. In addition to these three partners, any legal entity from anywhere in the world can also be included in the consortium.

(4) Per project – with possible exceptions

BIG MONEY

Early-Stage Enterprises	SMEs
InnovFin Technology Transfer	InnovFin SME Guarantee
InnovFin Business Angels	
InnovFin Venture Capital	
InnovFin Fund-of-Funds	
Early-Stage Enterprises, SMEs and Small Midcaps < 500 Employees	SMEs and Small Midcaps < 500 Employees
Intermediated Equity Financing	Intermediated Debt Financing

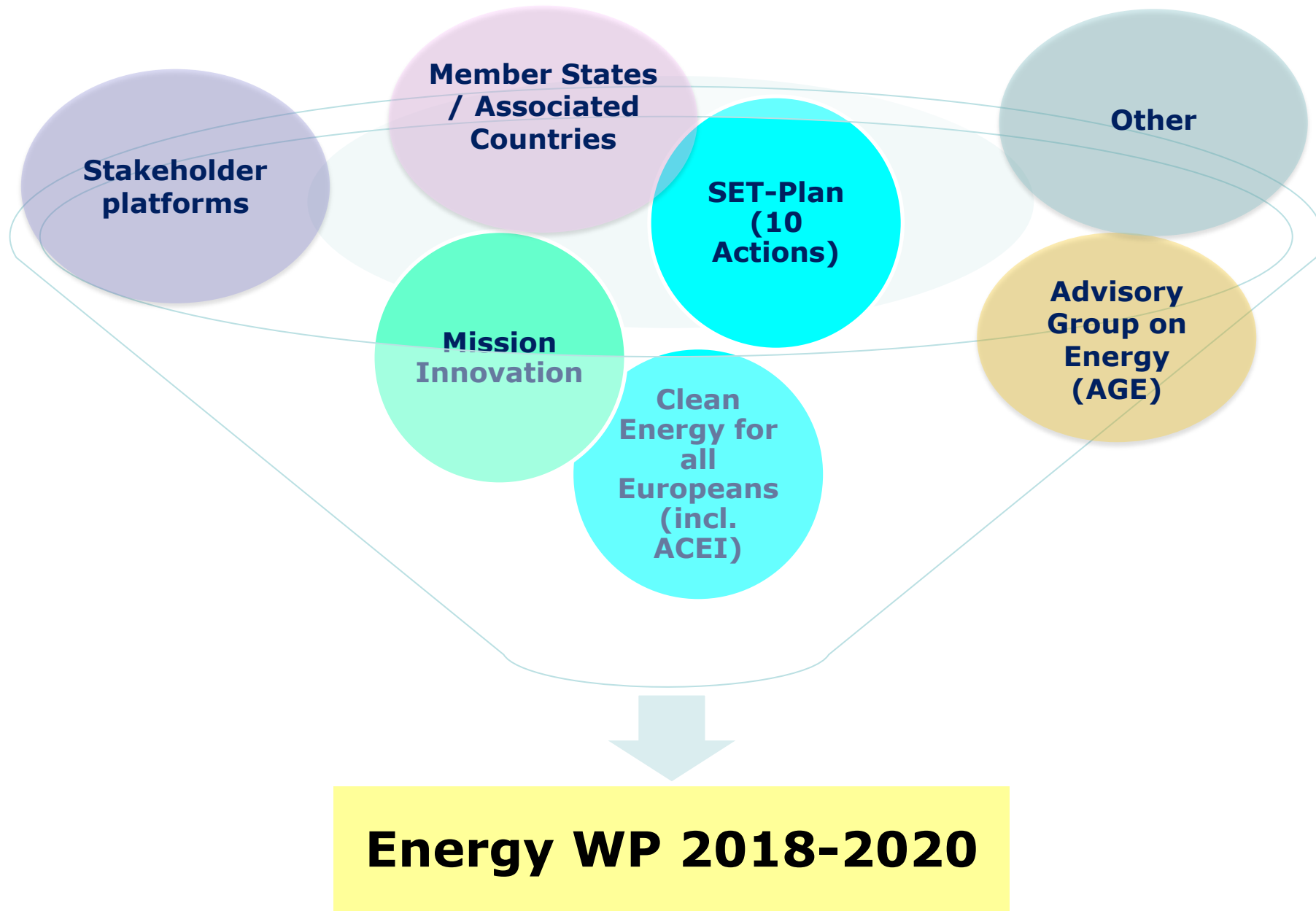
Corporate	Science	Thematic Finance
InnovFin Emerging Innovators	InnovFin Science	InnovFin Energy Demo Projects
InnovFin MidCap Guarantee		InnovFin Infectious Diseases
InnovFin Corporate Research Equity		InnovFin Thematic Investment Platforms
SMEs, Midcaps, Large Caps, SPVs	Research Institutes, Universities, Research Organisations	SMEs, Midcaps, possibly Large Caps, SPVs
Direct and /or Intermediated Financing (including equity type)	Direct Financing (including equity type)	Direct and/or Intermediated Financing (including equity type)

Advisory
InnovFin Advisory
Public and Private Sector Promoters
Financial Advisory

Direct products
 Indirect products
 Direct or Indirect products

Note: InnovFin Large Projects succeeded by InnovFin Emerging Innovators
 InnovFin MidCap Growth Finance is deployed under the European Fund for Strategic Investments (EFSI) since November 2016

Inputs to the work programme 2018-2020



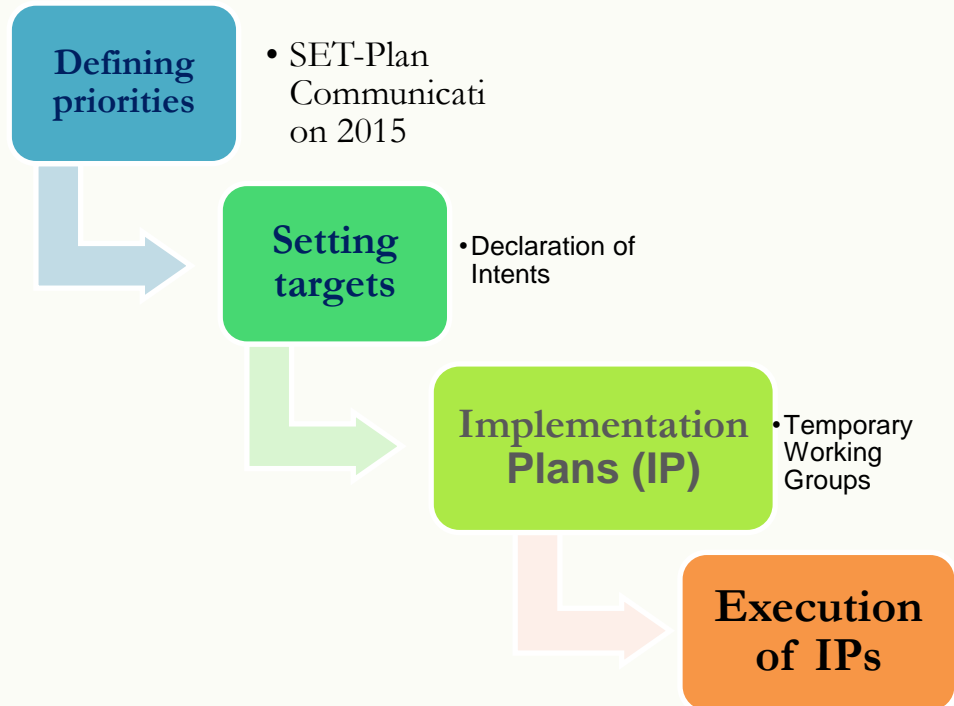
Policy Framework -The Strategic Energy Technology Plan (SET-Plan)



Overall objective: Accelerating the development and deployment of low-carbon technologies through cooperation among EU countries, companies, research institutions, and the EU itself, based on common priorities, targets and actions.

Priority Actions:

- 1+2. Improving performance and reducing cost of renewable energy
3. Smart solutions for consumers
4. Smart Resilient and Secure Energy System
5. Energy Efficiency in Buildings
6. Energy Efficiency in Industry
7. Batteries and e-Mobility
8. Renewable Fuels and Bioenergy
9. Carbon Capture Utilisation and Storage
10. Nuclear Safety



Links between Clean Energy Innovation Initiatives



September 2016 SET-PLAN KEY ACTIONS *Instruments to align National and EU priorities*

- Performant and low cost Renewables / 2
- Smart solutions for Energy consumers
- Integrated and flexible Energy systems
- Efficiency in buildings and in energy intensive Industries / 2
- Batteries for e-mobility and stationary storage
- Renewable fuels and bioenergy
- Carbon capture storage/ use
- Nuclear safety

November 2016 ACCELERATING CLEAN ENERGY INNOVATION *Focus of EU funding H2020 WP 2018-2020*

- Strengthening EU leadership on renewables
- Developing affordable and integrated energy storage solutions
- Decarbonising the EU building stock by 2050
- Electro-mobility and a more integrated urban transport system

June 2017 MISSION INNOVATION *Innovation Challenges*

Clean Energy Materials

- Converting Sunlight
- Smart Grids
- Off-Grid Access to Electricity
- Affordable Heating and Cooling of Buildings
- Sustainable Biofuels
- Carbon Capture storage/ use

December 2018 Breakthrough Energy Coalition (BEC) *Focus R&I Areas*

- Grid Scale Storage
- Micro-Mini-grid
- Liquid Fuel
- Alternative Building Material
- Geothermal

Thank You for Your Attention!

Lorencz Kinga

National Contact Point - Hungary

H2020 SC3 Secure, Clean and Efficient Energy

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NATIONAL RESEARCH, DEVELOPMENT
AND INNOVATION OFFICE
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