



# Energiahatékonyság és megújuló energiaforrások a HORIZON 2020 programban

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Nemzeti Kapcsolattartó H2020 - energia



# Horizont 2020 költségvetése, 2014-2020

**Összesen 70 Mrd. €**

**Nemzeti Innovációs Hivatal:**  
**Nemzeti Kapcsolattartók**  
**(NCP), Promgramme**  
**Committee (PC) Nemzeti**  
**Delegáltak**

Forrás:  
Agreement on „HORIZON 2020”,  
Brussels, 17 July 2013 11985/13

<b>I. Kiváló Tudomány:</b>	<b>31,73 % - 22,211 mrd. €</b>
1. Európai Kutatási Tanács (ERC)	17,00 % - 11,94 <b>mrd. €</b>
2. Jövőbeni és feltörekvő technológiák (FET)	3,50% - 2,45 <b>mrd. €</b>
3. Marie Curie akciók (MSC)	8,00% - 5,6 <b>mrd. €</b>
4. Kutatási infrastruktúrák (RI)	3,23% - 2,26 <b>mrd. €</b>
<b>II. Ipari vezető szerep:</b>	<b>22,09 % - 15,463 mrd. €</b>
1. Vezető szerep az alap- és az ipari technológiák területén	17,60% - 12,35 <b>mrd. €</b>
2. Kockázatfinanszírozáshoz jutás	3,69% - 2,58 <b>mrd. €</b>
3. Innováció a kis- és középvállalkozásoknál	0,80% - 0,56 <b>mrd. €</b>
<b>III. Társadalmi kihívások:</b>	<b>38,53 % - 26,971 mrd. €</b>
1. Egészségügyi, demográfiai változások és jólét	9,70% - 6,79 <b>mrd. €</b>
2. Élelmiszerbiztonság, fenntartható mezőgazdaság és biogazdaság	5,00% - 3,5 <b>mrd. €</b>
3. Energia	7,70% - 5,39 <b>mrd. €</b>
4. Közlekedés	8,23% - 5,76 <b>mrd. €</b>
5. Klímaváltozás, nyersanyag és erőforrás hatékonyság	4,00% - 2,8 <b>mrd. €</b>
6. Inklúzív társadalom	1,70% - 1,19 <b>mrd. €</b>
7. Befogadó, Innovatív és biztonságos társadalom	2,20% - 1,54 <b>mrd. €</b>
Kiválóság terjesztése és a hallgatók körének bővítése	<b>1,06 % - 0,742 mrd. €</b>
Tudomány a társadalomért	<b>0,60 % - 0,42 mrd. €</b>
Európai Innovációs és Technológiai Intézet (EIT)	<b>3,52 % - 2,464 mrd. €</b>
Közös Kutatóközpont: nem nukleáris, közvetlen akciók	<b>2,47 % - 1,729 mrd. €</b>
<b>Összesen 100 %</b>	<b>100 % - 70 mrd. €</b>



## Újdonságok a Horizon 2020-ban

- **Egységes keretprogram**  
három korábbi kezdeményezés (FP7, CIP, EIT) integrálása
- **Még több innováció**  
a kutatástól a piacig tartó innovációs lánc
- **Hangsúly a társadalmi kihívásokon**  
az EU társadalmát érintő problémák (pl. egészség, tiszta energia, közlekedés)
- **Egyszerűbb adminisztráció (Egységes szabályozás minden résztvevőre - „Single set of rules”, egy projekthez egy támogatási ráta , gyorsabb hozzájutás a támogatásokhoz)**



## H2020 stratégia- 3 pillére

### **1. Prioritás: a kiváló tudomány. MIÉRT?**

- A világszínvonalú tudomány a jövő technológiáinak, munkahelyeinek és jólétének alapja.
- Európa számára kiemelt érdek a kiváló kutatók támogatása , megtartása , a kiemelkedő kutatók Európába vonzása
- A kutatóknak a legjobb infrastruktúráakra van szüksége.

### **2. Prioritás: az ipari vezető szerep. MIÉRT?**

- A kulcsfontosságú technológiákba történő stratégiai beruházások megerősítik a meglévő és fejlődő szektorok innovációját.  
(Pl.: korszerű gyártás, mikro-elektronika)
- Európának több magánberuházást kell vonzania a kutatás és innováció területén.
- Európának még innovatívabb KKV-kra van szüksége, hogy növekedést érjen el, és új munkahelyeket teremtsen.

### **3. Prioritás: a társadalmi kihívások. MIÉRT?**

- Innováció nélkül nem lehet célt érni az állampolgárokat és társadalmakat érintő ügyekben, de az EU politikai céljaiban sem.  
(Pl.: éghajlatváltozás, környezetvédelem, energetika, közlekedés)
- Áttörést hozó megoldásokat a – társadalomtudományokat is magukba foglaló – multi-diszciplináris együttműködések eredményeznek.
- Az ígéretes megoldásokat tesztelni, demonstrálni és mérni kell.



## Hivatalos információk

- Energy WP-version

[http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014\\_2015/main/h2020-wp1415-energy\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-energy_en.pdf)

- illetve egyebek:

[http://ec.europa.eu/research/participants/portals/desktop/en/funding/reference\\_docs.html#h2020-work-programmes-2014-15-main-wp](http://ec.europa.eu/research/participants/portals/desktop/en/funding/reference_docs.html#h2020-work-programmes-2014-15-main-wp)

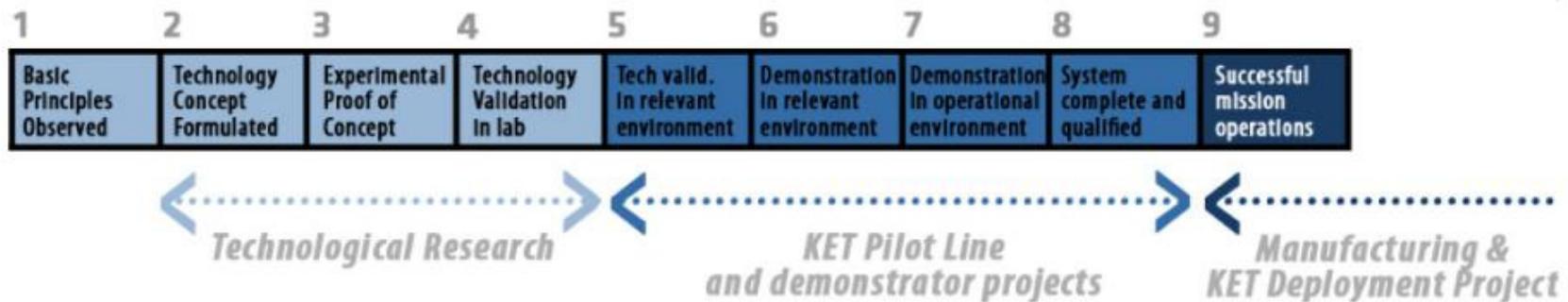
# Horizon 2020- Energy Work Programme Secure, Clean and Efficient energy

- Europe 2020 and 2050 célok/  
Klímapolitika, energiahatékonyság, megújulók részaránya
- Energy Work Programme-Energy WP 2014-2015 Fehívások:
  - Energy Efficiency -**EE**
  - Low Carbon Energy-**LCE**
  - Smart Cities and Communities-**SCC**



# Innovációs lánc-TRL

## Application of the Technology Readiness Levels



Where a topic description refers to a TRL, the following definitions apply, unless otherwise specified:

- TRL 1 – basic principles observed
- TRL 2 – technology concept formulated
- TRL 3 – experimental proof of concept
- TRL 4 – technology validated in lab
- TRL 5 – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- TRL 6 – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- TRL 7 – system prototype demonstration in operational environment
- TRL 8 – system complete and qualified
- TRL 9 – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)



## H2020 lényege

- Szélesebb tárgykör- kevesebb technológiai specifikáció, a várt hatásokon van a fő hangsúly
- A pályázók nagyobb szabadságot kapnak a saját technológiai megoldások keresésére
- Ötlettől a piacig: TRL 1-9 –Innovációs Lánc
- Egyszerűbb értelmezés: types of action (Research and Innovation actions, Innovation actions,etc) 70-100%
- Cross-cutting issues



## H2020 stratégiája

- Stratégiai programozás
- Egységes munkaprogram a 3 alappiléren
- 2 éves munkaprogram!

Van idő rákészülni

- Vezérmotívum energia munkaprogram : contribution of Horizon 2020 to **tackle the economic crisis and the path to sustainable growth**
- Key drivers : competitiveness, innovation and growth, leverage of industry, access to finance, new knowledge and skills, enabling technologies....



## Challenge 3: Secure, Clean and Efficient Energy

**Support the transition to a reliable, sustainable and competitive energy system by :**

- Reducing energy consumption and carbon footprint
- Boosting development of renewable and alternative energy technologies and their integration in the energy system
- Making the grid more flexible (inclusion new energy sources, lowering costs of necessary infrastructure upgrades)
- Decarbonising the power and other industrial sectors

**Increase the competitiveness of European industry**

- Addressing the whole supply chain
- Increase energy efficiency in industry
- Decrease energy costs



## Energy Work Programme : kiindulópontok

- Support the implementation of the Strategic Energy Technology Plan (SET-Plan) :
  - SET-Plan Technology Roadmaps
  - EERA(European Energy Research Alliance)
  - Implementation Plans of the European Industrial Initiatives
    - Wind (The European Wind Initiative)
    - Solar (The Solar Europe Initiative - photovoltaic and concentrated solar power)
    - Electricity Grids (The European Electricity Grid Initiative)
    - Carbon Capture & Storage (The European CO2 Capture, Transport and Storage Initiative)
    - Nuclear Fission (The Sustainable Nuclear Initiative)
    - Bio-energy (The European Industrial Bioenergy Initiative)
    - Smart Cities (Energy Efficiency - The Smart Cities Initiative)
  - Oriented toward the future Integrated Roadmap and Action Plan (EC Communication on Energy Technologies and Innovation of 2. May 2013)

## Napenergia



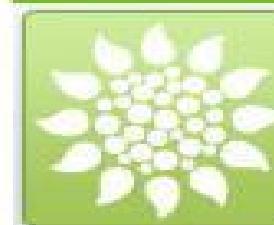
- » [Photovoltaics](#)
- » [CSP](#)

## Szélenergia



- » [Wind energy](#)

## Bioenergia



- » [Bioenergy](#)

## Egyéb megújulók



- » [Ocean](#)
- » [Hydro](#)
- » [Geothermal](#)

## Hidrogén és üzemanyagcella



- » [Fuel cells and hydrogen](#)

## Energia hálózatok



- » [Smart grid](#)

## CCS / Tiszta szén



- » [Clean coal/CCS](#)
- » [Coal and steel \(RFCS\)](#)

## Energia hatékonyság



- » [Efficiency and savings](#)

## Horizontális aspektus



- » [Socio-economic research](#)
- » [Future emerging technologies & materials](#)



## Energia munkaprogram

- **3 alapvető fejezet, plusz egy KKV felhívás**
  - Energy Efficiency -EE
  - Competitive Low Carbon Energy -LCE
  - Smart Cities and Communities –SCC
- 
- **! General annexes, pontozási szempontok, határidők 03.03., 03.20. 04.01...**



# Horizon 2020 Energy – First Call!

## Infoday & Brokerage Event

5th/6th December 2013, Brussels, Belgium



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**Participants**

Austria	9
Belgium	33
Bulgaria	5
Croatia	2
Cyprus	2
Czech Republic	9
Denmark	9
Estonia	5
Finland	9
France	11
Germany	41
Greece	20
Hungary	1
Ireland	6
Italy	42
Latvia	1
Lithuania	2
Luxembourg	3
Malta	7
Netherlands	5
Norway	1
Others	6
Poland	5
Portugal	15
Romania	2
Slovenia	1

Organisation Type  Profile Type   
Areas of Activity  Free text

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- AT 4ward Energy Research GmbH — Alois Kraussler Research  
*No cooperation profiles specified*
- AT Bartenbach GmbH — Wilfried Pohl Company  
*No cooperation profiles specified*
- AT Energieinstitut an der Johannes Kepler Universität Linz — Andrea Kollmann Research  
**H2020 Partner Profile:** Economic, social, organisational as well as legal aspects of the developments on the national or European energy marketes
- AT Gerfried Cebrat — Gerfried Cebrat Other  
**Business Co-operation:** external contributor for proposals or partner in SME network  
**H2020 Coordinator Profile:** Energy Saving through Open Appliance Control Platforms ESOP
- AT NCP AT - FFG-Austrian Research Promotion Agency — Siegfried Loicht Other  
*No cooperation profiles specified*
- AT Salzburg Research Forschungsgesellschaft mbH — Peter Dorfinger Research  
**H2020 Coordinator Profile:** Improved communication for new business models  
**H2020 Partner Profile:** eEnergy communication experts
- AT University of Innsbruck/Unit of Hydraulic Engineering — Markus Aufleger University  
**H2020 Partner Profile:** Floating Hydraulic Energy Storage System for the Maritime Renewable Energy Sector
- AT alpS GmbH - Centre for Climate Change Adaptation — Angela Michiko Hama Company  
*No cooperation profiles specified*

## Energy Efficiency Call

- A. Buildings and consumers
- B. Heating and cooling
- C. Industry and products
- D. Finance for sustainable energy

- EE call will complement the EeB PPP (LEIT pillar H2020 Leadership in Enabling Industrial Technologies )

*European Construction Technology Platform has set up the Energy Efficient Building European Initiative (E2B EI), steered by the Energy Efficient Buildings Association (E2BA)*

- both technology and non-technology related topics (market uptake, support policy implementation, financing, ...)



## ENERGY EFFICIENCY I

Budget 2014: 92.50 MEUR 2015: 98.15 MEUR

### A – Buildings and consumers

- EE 1 – 2014: Manufacturing of prefabricated modules for renovation of building
- EE 2 – 2015: Buildings design for new highly energy performing buildings
- EE 3 – 2014: Energy strategies and solutions for deep renovation of historic buildings
- EE 4 – 2014: Construction skills
- EE 5 – 2014/2015: Increasing energy performance of existing buildings through process and organisation innovations and creating a market for deep renovation
- EE 6 – 2015: Demand response in blocks of buildings
- EE 7 – 2014/2015: Enhancing the capacity of public authorities to plan and implement sustainable energy policies and measures
- EE 8 – 2014: Public procurement of innovative sustainable energy solutions
- EE 9 – 2014/2015: Empowering stakeholders to assist public authorities in the definition and implementation of sustainable energy policies and measures
- EE 10 – 2014/2015: Consumer engagement for sustainable energy
- EE 11 – 2014/2015: New ICT-based solutions for energy efficiency
- EE 12 – 2014: Socioeconomic research on energy efficiency

### B – Heating and cooling

- EE 13 – 2014/2015: Technology for district heating and cooling
- EE 14 - 2014/2015: Removing market barriers to the uptake of efficient heating and cooling Solutions



### C - Industry and products

- EE 15 – 2014/2015: Ensuring effective implementation of EU product efficiency legislation
- EE 16 – 2014/2015: Organisational innovation to increase energy efficiency in industry
- EE 17 – 2015: Driving energy innovation through large buyer groups
- EE 18 – 2014/2015: New technologies for utilization of heat recovery in large industrial systems, considering the whole energy cycle from heat production to transformation, delivery and end use

### D - Finance for sustainable energy

- EE 19 – 2014/2015: Improving the financeability and attractiveness of sustainable energy investments
- EE 20 – 2014/2015: Project development assistance for innovative bankable and aggregated sustainable energy investment schemes and projects
- EE 21 – 2014/2015: Development and market roll-out of innovative energy services and financial schemes for sustainable energy

# Energy Efficiency Call : A. Buildings and consumers

- Innovative solutions for increasing the **rate, quality and effectiveness of building renovation techniques** in (mainly) existing buildings
- Technology for building materials and components (2014/15, Demo, Innov. action)
- Buildings Design for new highly energy performing buildings (2014/15, R&I action)
- Addressing the gap in knowledge and skills in the construction sector (Coordinating and Support Action)
- Process and organisation innovations to increase energy performance of existing buildings (2015/15, CSA)
- Demand Response in blocks of buildings (2015, Innov. action)
- Capacity building of public authorities to plan, implement sustainable energy policies and measures (2014/15, CSA)
- Empowering stakeholders to assist public authorities in the definition, implementation of sustainable energy policies and measures (2014/15, CSA)
- Public procurement of innovative sustainable energy solutions (2014, CSA)
- Consumer engagement for sustainable energy (2014/15, CSA)
- New ICT-based solutions for energy efficiency (Innov. Action, Prizes)
- Socio-economic research on energy efficiency (2014, R&I action)

## Energy Efficiency Call : B. Heating and Cooling

- Technology for district heating and cooling (2014/15, R&I action)
- Removing market barriers to the uptake of efficient heating and cooling technologies (2014/15, CSA)

## Energy Efficiency Call : C. Industry and Products

- This focus area will complement **the SPIRE PPP and the FoF PPP** (LEIT pillar H2020) ***Sustainable Process Industry through Resource and Energy Efficiency***, Factories of Future
- Development and demonstration of energy-efficient products, processes and services by SMEs (2015, SME instrument)
- Organisational innovation to increase energy efficiency in industry (2014/15, CSA)
- Ensuring effective implementation of EU product efficiency legislation (2014/15, CSA)
- Driving energy innovation through large buyer groups (2015, CSA)

## Energy Efficiency Call : D. Finance for sustainable energy

- Improving the financeability and attractiveness of sustainable energy investments (new business models, financial products) (2014/15, CSA)
- Project development assistance for innovative bankable and aggregated sustainable energy investment schemes and projects (2014/15, CSA)
- Development and market roll-out of innovative energy services and financial schemes for sustainable energy (2014/15, CSA)



- LCE 1 – 2014: New knowledge and technologies

**Renewable electricity and heating/cooling**

- LCE 2 – 2014/2015: Developing the next generation technologies of renewable electricity and heating/cooling
- LCE 3 – 2014/2015: Demonstration of renewable electricity and heating/cooling technologies
- LCE 4 – 2014/2015: Market uptake of existing and emerging renewable electricity, heating and cooling technologies

**Modernising the European electricity grid**

- LCE 5 – 2015: Innovation and technologies for the deployment of meshed off-shore grids
- LCE 6 – 2015: Transmission grid and wholesale market
- LCE 7 – 2014: Distribution grid and retail market

**Providing the energy system with flexibility through enhanced energy storage technologies**

- LCE 8 – 2014: Local / small-scale storage
- LCE 9 – 2015: Large scale energy storage
- LCE 10 – 2014: Next generation technologies for energy storage



## Competitive low-carbon energy LCE

### Sustainable biofuels and alternative fuels for the European transport fuel mix

- LCE 11 – 2014/2015: Developing next generation technologies for biofuels and sustainable alternative fuels
- LCE 12 – 2014/2015: Demonstrating advanced biofuel technologies
- LCE 13 – 2015: Partnering with Brazil on advanced biofuels
- LCE 14 – 2014/2015: Market uptake of existing and emerging sustainable bioenergy

### Enabling the decarbonisation of the use of fossil fuels during the transition to a lowcarbon economy

- LCE 15 – 2014/2015: Enabling decarbonisation of the fossil fuel-based power sector and energy intensive industry through CCS
- LCE 16 – 2014: Understanding, preventing and mitigating the potential environmental impacts and risks of shale gas exploration and exploitation
- LCE 17 – 2015: Highly flexible and efficient fossil fuel power plants

### Supporting the development of a European research area in the field of energy

- LCE 18 – 2014/2015 : Supporting Joint Actions on demonstration and validation of innovative energy solutions
- LCE 19 – 2014/2015 : Supporting coordination of national R&D activities

### Social, environmental and economic aspects of the energy system

- LCE 20 – 2014: The human factor in the energy system
- LCE 21 – 2015: Modelling and analysing the energy system, its transformation and impacts

### Cross-cutting issues

- LCE 22 – 2014: Fostering the network of National Contact Points



# Competitive low-carbon energy Call

Technology Readiness Levels (TRLs) are indicated

- New knowledge and technologies (2014, R&I action)
- **Renewable electricity and heating/cooling**
- **Next generation technologies** PV, CSP, Wind, Ocean, Hydro Power, Geothermal, renewable heating and cooling (2014/15, R&I action)
- **Demonstration** of renewable electricity and heating/cooling technologies PV, CSP, Wind, Ocean, renewable heating and cooling, Geothermal (2014 or 2015, Innov. action)
- **Market uptake** of existing and emerging renewable electricity, heating and cooling technologies (2014/15, Innov. action)

## Modernising the single European electricity grid

- Meshed off-shore grids in the Northern Seas (2014, CSA)
- **Transmission grid** and the wholesale market (2014, R&I and I action)
- **Distribution grid** and retail market (2015, R&I action)
- **Enhanced energy storage technologies (flexibility energy system)**
- Local / small-scale storage (2014, Innov. action)
- Large scale storage (2015, Innov. action)
- Next generation technologies for energy storage (2014, R&I action)



# Competitive low-carbon energy Call/2

## Sustainable biofuels and alternative fuels for the European transport fuel mix

- **Development** next generation technologies (2014/2015, R&I action)
- **Demonstration** advanced biofuel technologies (2014/2015, Innov. Action, implementation EIBI)
- Partnering with Brazil on advanced biofuels (2015, Innov. Action)
- **Market uptake** of existing and emerging sustainable bioenergy (2014/2015, Innov. Action)
- **Sustainable use of fossil fuels in the transition to a LC economy**
- **CCS** (2014/2015, R&I action)
- Understanding potential environmental impacts, risks shale gas exploration and exploitation (2014, R&I action)
- Highly flexible and efficient fossil fuel power plants (2015, R&I action)

## Supporting the development of a European Research Area in the field of energy

- Joint actions, ERA-NET (2014/15)
- Support coordination of national R&D activities (2014/15)

## Social, environmental and economic aspects of the energy system

- The human factor in the energy system (2014, R&I action)
- Modelling and analysing the energy system its transformation and impacts (2015, R&I action)

## Cross-cutting issues

- Exploiting the R&I potential of SMEs in a low carbon energy system (2014/15, SME instrument)
- Fostering the network of National Contact Points (2014, CSA)



## SMART CITIES AND COMMUNITIES

Budget 2014: 73.82 MEUR 2015: 86.68 MEUR

- SCC 1 – 2014/2015: Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse (large scale demonstration - first of the kind) projects
- **Enhancing the roll-out of Smart Cities and Communities solutions by stimulating the market demand**
- SCC 2 – 2014 : Developing a framework for common, transparent data collection and performance measurement to allow comparability and replication between solutions and bestpractice identification
- SCC 3 – 2015 : Development of system standards for smart cities and communities solutions
- SCC 4 – 2014 : Establishing networks of public procurers in local administrations on smart city solutions
- SCC 5 – 2015: Smart solutions for creating better cities and communities – assistance for a prize competition



# Smart Cities and Communities Call

In close cooperation with DG Transport and DG Connect

## **Lighthouse projects**

- Large scale demonstration
- SCC solutions integrating energy, transport and ICT sectors
- 2014/15, Innov. Action

## **Enhancing the roll-out of SCC by stimulating the market demand**

- Development of system standards for SCC solutions (2015, CSA)
- Establishing networks of public procurers in local administrations on smart city solutions (2014, Innov. Action)
- Challenge Price competition for innovative smart solutions for creating better cities and communities (SMEs, start-ups) (2014)



## KKV felhívás

- **SIE-01-2014-15-1 Stimulating the innovation potential of SMEs for a low carbon energy system €25,102,000**
- SIE-2-2015Fast Track to Innovation



## Other Actions-Közbeszerzések

- B1....-B4....Némelyik dedikált, de nem mind



# Energy kapcsolódások

## Contribution to other workprogrammes

*Energy Challenge contribution to other WPs 2014-15:*

- *PPP Energy-efficient Buildings: 3 topics (EE1, EE2, EE3), 13M€ / 9M€ in 2014/2015*
- *PPP SPIRE: 1 topic (EE19), 8 M€ in 2014 and 2015 Sustainable Process Industry through Resource and Energy Efficiency,*
- *Focus area "Blue Growth": 1.5 M€ in 2014 and 2015 for topics under the "New offshore challenges" area*

*Other H2020 parts contribution to Energy WP 2014-15:*

- *DG CNECT: Financial support for topics EE8, EE11, LCE7 and SCC1*



## NIH-ENERGETIKAI KFI JÖVŐKÉP, CÉLOK

Startégia és Hatékony támogatási rendszer nem létezik jól működő innovációmenedzsment és innovációs szolgáltatások nélkül:

- pályázati tanácsadás
- Pénz- és tőkepiaci források
- partnerkeresés
- IPR tanácsadás
- üzleti tanácsadás
- információs szolgáltatások
- inkubációs folyamatok támogatása
- Regionális Innovációs Ügynökségek (RIÜ) szerepének erősítése
- NIH Pont Inno szolgáltatás



# Köszönöm a figyelmet!

LORENCZ KINGA  
**National Contact Point –H2020 Energy**  
**NEMZETI INNOVÁCIÓS HIVATAL**  
**Belkapcsolatok Főosztály**  
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Tel.: 06-1-484-2873  
E-mail: [kinga.lorenz@nih.gov.hu](mailto:kinga.lorenz@nih.gov.hu)

# Energy Work Programme 2014-2015

- **Scope** = FP7 + market uptake + unconventional hydro carbons + flexible fossil fuel power plants
- Challenge based approach
- Strong focus on market uptake
- Cross-cutting approach : interaction, collaboration, complementarity with other H2020 parts