

# UVOD U OBZOR 2020. mogućnosti financiranja projekata u području energije H2020

Maja Salapić, NCP za Energiju i  
Transport

16. prosinca 2014.

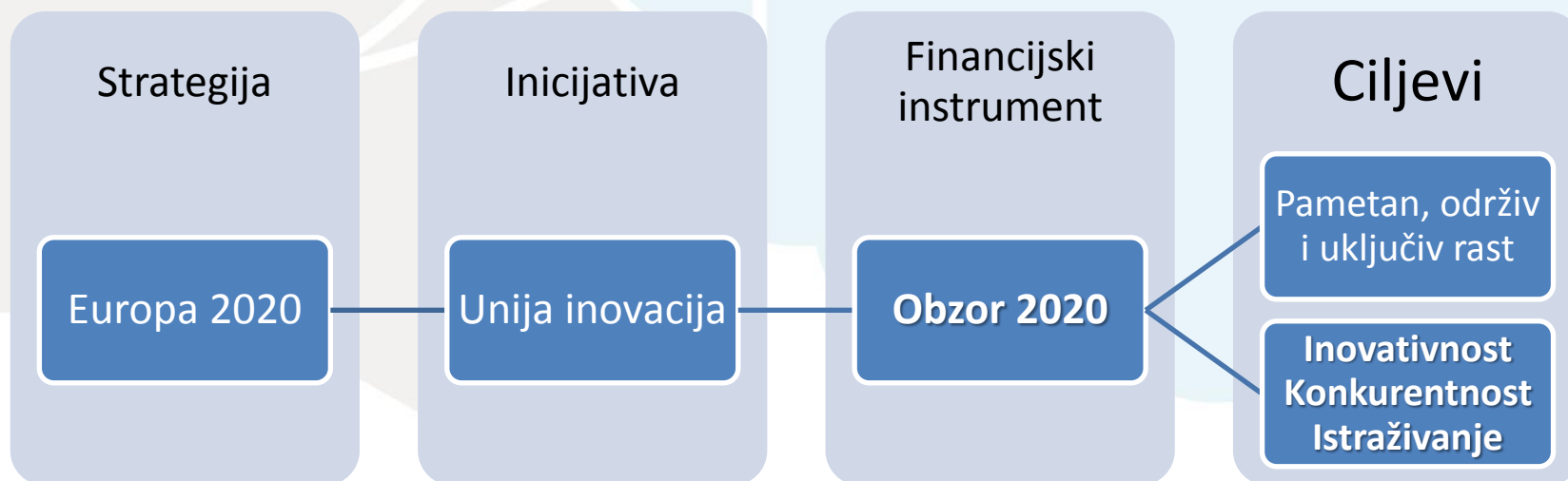


# Sadržaj:

- OBZOR 2020
- RADNI PROGRAM
- PARTICIPANT PORTAL
- SC 3: SIGURNA, ČISTA I UČINKOVITA ENERGIJA
- KORISNI LINKOVI

# OBZOR 2020.

- **novi okvirni EU program za istraživanje i inovacije** - koji će doprinijeti ostvarivanju ciljeva iz razvojne strategije Europa 2020:



- jedinstven program - objedinjuje **FP7, CIP i EIT\***
- spajanje istraživanja s inovacijama

\* 7. okvirni program (FP7), inovacijske aspekte Programa za konkurentnost i inovacije (CIP), doprinos Europskom institutu za inovacije i tehnologiju (EIT)

# MISAO VODILJA OBZORA 20200

- Rješenje i odgovor na **gospodarsku krizu**, investiranje u buduće **poslove i razvoj**, rješavanje pitanja građana EU o njihovoj **materijalnoj sigurnosti, općoj sigurnosti i okolišu**, kao i **jačanja globalne pozicije EU** u istraživanjima, inovacijama i tehnologijama
- snažna interakcija između različitih specifičnih ciljeva Obzora 2020.

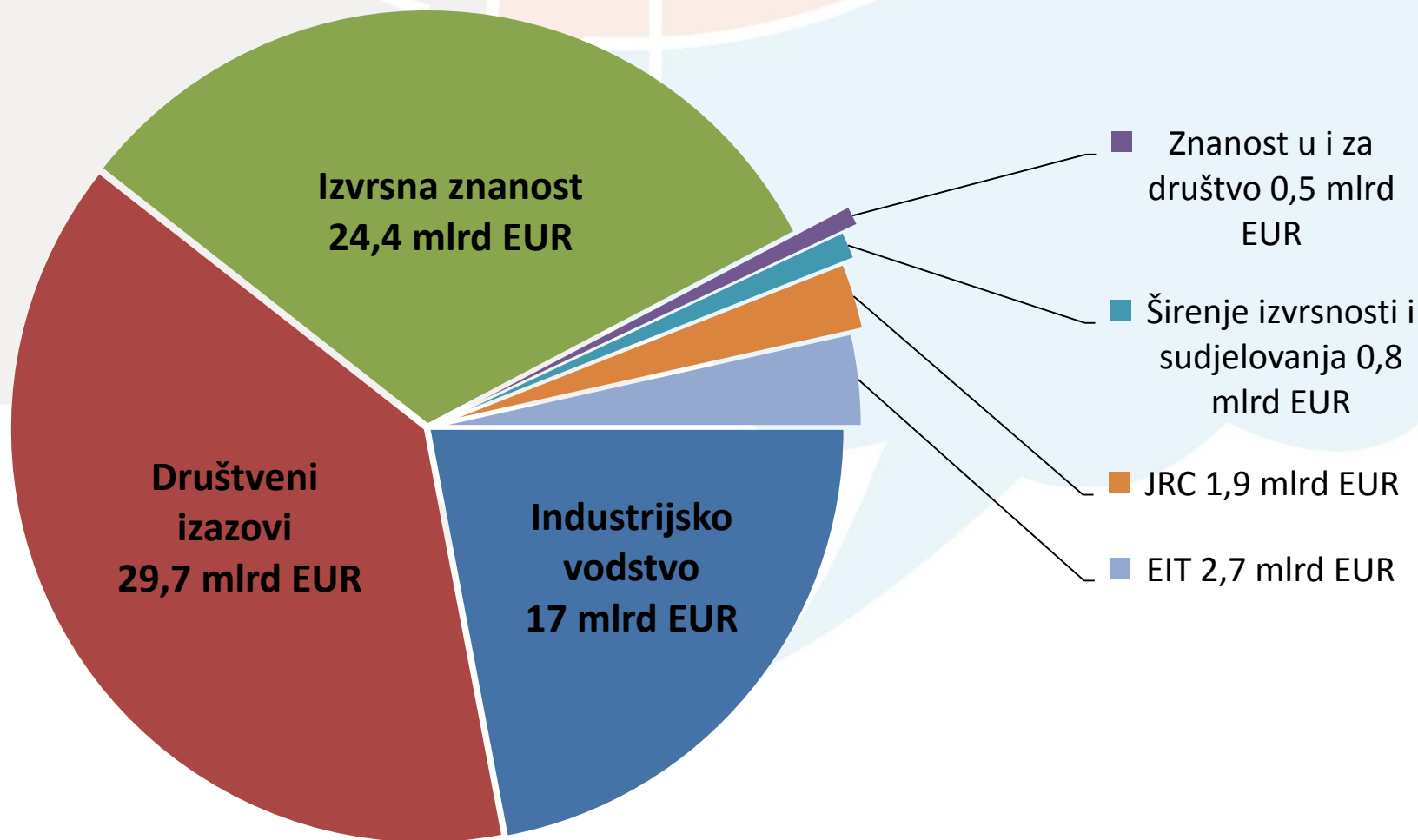


# STRUKTURA OBZORA





# BUDŽET





# JEDNOSTAVNIJA PRAVILA

CILJ: privući što veći broj prijavitelja iz industrijskog i akademskog sektora

- **Jednaka pravila za cijeli program**
  - manje financijskih instrumenata
- **Jednostavniji način financiranja**
  - 1 projekt = 1 stopa financiranja
- **Brže ugovaranje**
  - do 8 mjeseci nakon zatvaranja natječaja
  - iznimke: ERC, opravdani slučajevi (kompleksni projekti)
- **Manje kontrola i revizija**
  - ciljani odabir
- **Ujednačena implementacija**
  - jedinstveni IT sustav
- **Pojednostavljeni ugovori**



# RADNI PROGRAM

- **Dvogodišnji** (>15 mlrd. EUR, manje preskriptivan, šire teme, ali manji broj tema)
- **natječaji** *calls* → **teme** *topics*)
- tema *topic*) obuhvaća glavna elementa
  - **Posebni izazov**/*Specific challenge*
  - **Opseg**/*Scope*
  - **Očekivani učinak**/*Expected impact*





# DIJELOVI TEME

## GV.4-2014. Hybrid light and heavy duty vehicles

**Specific challenge:** The competitiveness of European road vehicle manufacturers is based on technological leadership particularly on system optimisation and affordability, particularly with respect to powertrains. The challenge is to recover a leading position in hybrid technology. The technology will also have positive effect on the reduction of CO2 emissions from road transport and air quality.

**Scope:** Proposals should develop new knowledge on hybrid components (storage system power electronics, etc.) and system engineering, simulation and technology integration with the aim of achieving hybrid powertrain weight and cost reduction, increased functionality, simplification of complex systems, efficiency and affordability while decreasing emissions and improving performance, comfort and functional safety. For light vehicles, preference would be given to concepts providing significant zero emission ranges. The research should be validated through at least one demonstrator for each platform subject of research. The Commission considers that proposals requesting a contribution from the EU of between EUR 10 to 20 million each would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

**Expected impact:** The research will achieve a 20% powertrain efficiency improvement and a 20% powertrain weight and volume reduction with respect to the best in-class full hybrid vehicles on the market in 2013, while having a maximum 10% cost premium on the conventional model on which the demonstrator is based. To meet air quality targets, the research will prove, by independent testing real driving emissions at least below upcoming Euro 6 or Euro VI limits respectively. The research for light vehicles will develop technologies needed to progress towards the establishment of a future 'Super Low Emission Vehicles' standard with emission targets which are ambitiously lower than Euro 6.

**Type of action:** Innovation Actions

The conditions related to this topic are provided at the end of this call and in the General Annexes.

# VRSTE AKTIVNOSTI

<b>Research &amp; Innovation Actions</b>	Min. 3 pravne osebe iz različnih zemalja članica ili pridruženih zemalja; 100%
<b>Innovation Actions</b>	Min. 3 partnera iz različnih zemalja članica ili pridruženih zemalja; 70%*
<b>Coordination and Support Actions</b>	Min. jedna pravna osoba iz zemlje članice ili pridružene zemlje; 100%
SME instrument	Minimalno jedno MSP iz zemlje članice ili pridružene zemlje
ERA-NET Cofund	Javno-javna partnerstva; 3 istraživačke institucije; 33%
Predkomercijalna nabava (PCP) i Javna nabava inovativnih rješenja (PPI)	Predkomercijalna nabava/Javna nabava inovativnih rješenja

# PARTICIPANT PORTAL(1)

Pružá usluge i alate koji omogućavaju praćenje i upravljanje prijavama i projektima:

- Natječajna dokumentacija
- Radni programi
- Pregled natječaja, tema
- Sustav projektnih prijava

...

# PARTICIPANT PORTAL(2)

(A-Z) [Sitemap](#) [About this site](#) [Contact](#) [Legal Notice](#) [English](#) ▾



## RESEARCH & INNOVATION

European  
Commission

### Participant Portal

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On this site you can find and secure **funding** for research & innovation projects under the following EU programmes:

- **2014-2020** Horizon 2020 - research and innovation framework programme
- **2007-2013** 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)

#### Non-registered users

- search for funding
- read the H2020 Online Manual & download the legal documents
- check if an organisation is already registered
- contact our support services or check our FAQs

#### Registered users

- submit your proposal
- sign the grant
- manage your project throughout its lifecycle



WHAT'S NEW?



FUNDING  
OPPORTUNITIES



HOW TO  
PARTICIPATE



WORK AS AN  
EXPERT



MY PERSONAL  
AREA



INFORMATION  
AND SUPPORT



# KAKO SUDJELOVATI?

## KAKO SUDJELOVATI?

1. Pronalazak natječaja
2. Pronalazak partnera
3. Kreiranje korisničkog računa
4. Registracija organizacije (PIC)
5. Podnošenje projektnog prijedloga

European Commission Participant Portal

European Commission > Research & Innovation > Participant Portal > Funding

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT Search PP LOGIN REGISTER

H2020 Online Manual  
Reference Documents  
Beneficiary Register  
Financial Viability Self-Check  
SME Participation

### How to participate

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.

The following guidance services facilitate your participation:

- **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**
- **Financial viability self-check tool** allows you simulating the financial viability check of your organisation
- **SME participation:** dedicated H2020 guidance page for SME

FIND a call 1 FIND partners 2 CREATE your account 3 REGISTER your organisation 4 SUBMIT a proposal 5

Projektni prijedlozi podnose se elektronički putem *Participant portala*

[H2020 Online Manual](#) detaljno opisuje proces i uvjete prijave!

# H2020 ONLINE MANUAL

The screenshot shows the 'RESEARCH & INNOVATION Participant Portal H2020 Online Manual' interface. It features a blue header with the European Commission logo and navigation icons. A left sidebar contains a tree view of the manual's contents. The main content area is organized into sections: 'My Area - User account & roles', 'Grants', 'Applying for funding', 'Evaluation & Grant signature', and 'Grant management', each with a series of process steps represented by arrows or buttons.

**RESEARCH & INNOVATION**  
Participant Portal H2020 Online Manual

**H2020 Online Manual**

- My Area - User account & roles
  - Login with ECAS
  - Roles & access rights
  - Terms and Conditions of Use
- Grants
  - Applying for funding
    - Find a call
      - Horizon 2020 structure and budget
      - What you need to know about Horizon 2020 calls
    - Find partners or apply as individual
    - Register in the Beneficiary Register
      - Registration of your organisation
      - LEAR appointment
      - Validation of potential beneficiaries

**My Area - User account & roles**

**Grants**

*Applying for funding*

Find a call → Find partners → Register an organisation → Submit a proposal

*Evaluation & Grant signature*

Eligibility check → Evaluation of proposals → Grant preparation → Grant signature

*Grant management*

Keeping records | Amendments | Reports & payment requests | Deliverables

Dissemination & exploitation | Communication | Checks, audits, reviews & investigations



# EVALUACIJSKI KRITERIJI

Izvrsnost

Učinak

Implementacija

- Inovacijske akcije – naglasak na UČINKU

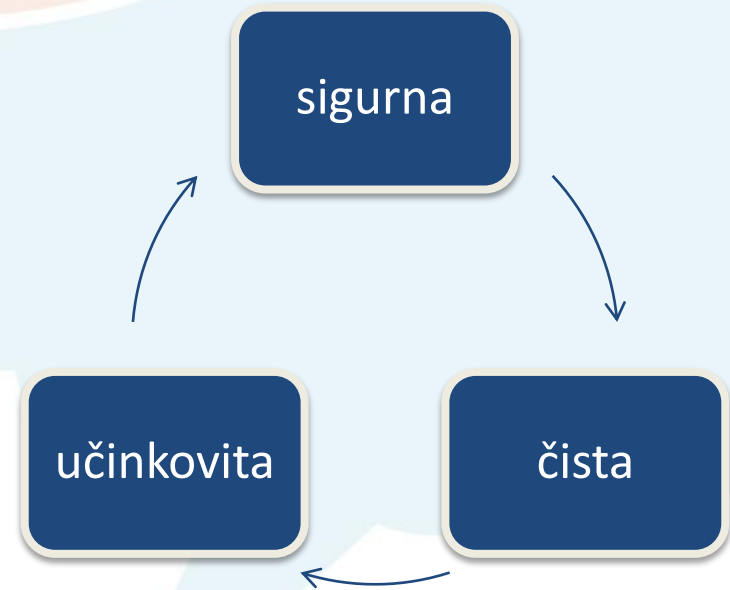
Nema faze pregovora s EK, projekt se provodi/ne provodi onakav kakav je dostavljen



# SC3 - SIGURNA, ČISTA I UČINKOVITA ENERGIJA

## CILJ:

- pridonijeti prijelazu na pouzdan, održiv i konkurentan energetske sustav







## The European Strategic Energy Technology Plan

### SET PLAN (2007.)

- **strategijski okvir SC 3** za energetske tehnologije budućnosti
- plan u postizanju **ciljeva energije i klime (20-20-20 target)** kroz različite tehnološke razvitke u prioritarnim područjima





# NATJEČAJI – ENERGIJA

## 4 natječaja (*calls*):

- *Energy efficiency (EE)*
- *Competitive low-carbon energy (LCE)*
- *Smart Cities and Communities (SCC)*
- *SME's and Fast Track to Innovation for Energy*

*+ Other actions*



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# CALL EE: ENERGY EFFICIENCY

## ✓ Zgrade i potrošači

Povećati stopu, kvalitetu i učinkovitost renovacije zgrada s posebnim naglaskom na povijesne objekte

## ✓ Grijanje i hlađenje kućanstava (naselja)

Razvoj tehnoloških rješenja i plasiranje gotovih proizvoda na tržište

## ✓ Industrija i proizvodi

Uglavnom teme koje se ne bave tehnološkim razvojem već energetsom učinkovitošću u industriji

## ✓ Financiranje održive energije

Mobilizacija investicija za tvrtke u svrhu osvajanja tržišta



# CALL EE: teme 2014./2015.

TOPIC	AREA	TYPE	DEADLINE
	<b>Buildings and consumers</b>		
EE 1	Manufacturing of prefabricated modules for renovation of buildings	IA	
EE 2	<b>Buildings design for new highly energy performing buildings</b>	IA	<b>4.2.2015.</b>
EE 3	Energy strategies and solutions for deep renovation of historic buildings	RIA	
EE 4	<b>Construction skills</b>	CSA	
EE 5	<b>Increasing energy performance of existing buildings through process and organisation innovations and creating a market for deep renovation</b>	CSA	<b>4.6.2015.</b>
EE 6	<b>Demand response in blocks of buildings</b>	IA	<b>4.6.2015.</b>
EE 7	<b>Enhancing the capacity of public authorities to plan and implement sustainable energy policies and measures</b>	CSA	<b>4.6.2015.</b>
EE 8	Public procurement of innovative sustainable energy solutions	CSA	
EE 9	<b>Empowering stakeholders to assist public authorities in the definition and implementation of sustainable energy policies and measures</b>	CSA	<b>4.6.2015.</b>
EE 10	<b>Consumer engagement for sustainable energy</b>	CSA	<b>4.6.2015.</b>
EE 11	<b>New ICT-based solutions for energy efficiency</b>	RIA	<b>4.6.2015.</b>
EE 12	Socioeconomic research on energy efficiency	RIA	



# CALL EE: teme 2014./2015.

TOPIC	AREA	TYPE	DEADLINE
	<b>Heating and cooling</b>		
EE 13	Technology for district heating and cooling	RIA	4.6.2015.
EE 14	Removing market barriers to the uptake of efficient heating and cooling solutions	CSA	4.6.2015.
	<b>Industry and products</b>		
EE 15	Ensuring effective implementation of EU product efficiency legislation	CSA	4.6.2015.
EE 16	Organisational innovation to increase energy efficiency in industry	CSA	4.6.2015.
EE 17	Driving energy innovation through large buyer groups	CSA	4.6.2015.
EE 18	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	RIA	4.2.2015.
	<b>Finance for sustainable energy</b>		
EE 19	Improving the financeability and attractiveness of sustainable energy investments	CSA	4.6.2015.
EE 20	Project development assistance for innovative bankable and aggregated sustainable energy investment schemes and projects	CSA	4.6.2015.
EE 21	Development and market roll-out of innovative energy services and financial schemes for sustainable energy	CSA	4.6.2015.



# CALL LCE: COMPETITIVE LOW-CARBON ENERGY

- ✓ Nova **znanja i tehnologije**
- ✓ Obnovljiva energija i **učinkovito grijanje/hlađenje**
- ✓ **Modernizacija** jedinstvene europske **električne mreže**
- ✓ Razvoj tehnologija za učinkovitije **skladištenje energije**
- ✓ Održiva **biogoriva** i druga **alternativna goriva**
- ✓ „Dekarbonizacija” upotrebe fosilnih goriva
- ✓ Podrška **razvoju Europskog istraživačkog prostora**
- ✓ Društveni, okolišni i ekonomski aspekti novog energetskeg sustava



# CALL LCE: teme 2014./2015.

TOPIC	AREA	TYPE	DEADLINE
LCE 1	New knowledge and technologies	RIA	
	<b>Renewable electricity and heating/cooling</b>		
LCE 2	Developing the next generation technologies of renewable electricity and heating/cooling	RIA	
LCE 3	<b>Demonstration of renewable electricity and heating/cooling technologies</b>	IA	<b>5.5.2015.</b>
LCE 4	<b>Market uptake of existing and emerging renewable electricity, heating and cooling technologies</b>	CSA	<b>5.5.2015.</b>
	<b>Modernising the European electricity grid</b>		
LCE 5	<b>Innovation and technologies for the deployment of meshed off-shore grids</b>	IA	<b>5.5.2015.</b>
LCE 6	<b>Transmission grid and wholesale market</b>	IA, RIA	<b>5.5.2015.</b>
LCE 7	Distribution grid and retail market	IA, CSA	
LCE 23	<b>Supporting the community in deploying a common framework for measuring the energy and environmental efficiency of the ICT-sector</b>	CSA	<b>5.5.2015.</b>



# CALL LCE: teme 2014./2015.

TOPIC	AREA	TYPE	DEADLINE
	<b>Energy storage technologies</b>		
LCE 8	Local / small-scale storage	IA	
<b>LCE 9</b>	<b>Large scale energy storage</b>	<b>IA</b>	<b>5.5.2015.</b>
LCE 10	Next generation technologies for energy storage	RIA	
	<b>Sustainable biofuels and alternative fuels for transport</b>		
LCE 11	Developing next generation technologies for biofuels and sustainable alternative fuels	RIA	
<b>LCE 12</b>	<b>Demonstrating advanced biofuel technologies</b>	<b>IA</b>	<b>5.5.2015.</b>
<b>LCE 14</b>	<b>Market uptake of existing and emerging sustainable bioenergy</b>	<b>CSA</b>	<b>5.5.2015.</b>
	<b>Enabling the decarbonisation of the use of fossil fuels</b>		
LCE 15	Enabling decarbonisation of the fossil fuel-based power sector and energy intensive industry through CCS	RIA	
LCE 16	Understanding, preventing and mitigating the potential environmental impacts and risks of shale gas exploration and exploitation	RIA	
LCE 17	Highly flexible and efficient fossil fuel power plants	RIA	





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# CALL LCE: teme 2014./2015.

TOPIC	AREA	TYPE	DEADLINE
	<b>Supporting the development of a European research area in the field of energy</b>		
LCE 18	Supporting Joint Actions on demonstration and validation of innovative energy solutions	ERA-NET	5.5.2015.
LCE 19	Supporting coordination of national R&D activities	CSA	5.5.2015.
	<b>Social, environmental and economic aspects of the energy system</b>		
LCE 20	The human factor in the energy system	RIA, CSA	
LCE 21	Modelling and analysing the energy system, its transformation and impacts	RIA	5.5.2015.

# CALL SCC: SMART CITIES AND COMMUNITIES

## ✓ **Lighthouse projects SCC**

Niskoenergetska područja/čtvrsti, integrirana infrastruktura, održiva gradska mobilnost, rješenja koja uključuju energetiku, transport i ICT

## ✓ **Jačanje razvitka rješenja za pametne gradove i zajednice potičući potražnju na tržištu**

Potvrda novih poslovnih i finansijskih modela, standardizacija, replikacija rješenja, uspostavljanje mreže javnih nabavitelja novih SCC rješenja, korisničko prihvaćanje i angažiranost

## ✓ **Održiva urbana rješenja, smanjenje emisije stakleničkih plinova kao i poboljšanje kvalitete zraka i života u gradovima**



# CALL SCC: teme 2014./2015.

TOPICS	AREA	TYPE	DEADLINE
SCC 1	<b>Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse (large scale demonstration - first of the kind) projects</b>	IA	5.5.2015.
	<b>Enhancing the roll-out of Smart Cities and Communities solutions by stimulating the market demand</b>		
SCC 2	Developing a framework for common, transparent data collection and performance measurement to allow comparability and replication between solutions and best-practice identification	CSA	
SCC 3	<b>Development of system standards for smart cities and communities solutions</b>	CSA	5.5.2015.
SCC 4	Establishing networks of public procurers in local administrations on smart city solutions	CSA	



# CALL SMEs & FAST TRACK

## ✓ **SMALL BUSINESS (Small and Medium-sized Enterprises)**

### **SIE 1 – 2014/2015: Stimulating the innovation potential of SMEs for a low carbon and efficient energy system**

smanjenje potrošnje energije pametnim i održivim korištenjem, jeftina i nisko-ugljična opskrba električnom energijom, alternativna goriva i mobilni energetske izvori, jedinstvena europska pametna električna mreža, nove tehnologije i znanja, angažiranost javnosti.

## ✓ **FAST TRACK TO INNOVATION**

Brz put do inovacija (Pilot projekt - 2015.)

# SME instrument

- 20% budžeta namijenjeno SME-u
- Bottom-up pristup
- Kontinuirano otvoreni natječaji (*3 cut off date*)
- u područjima Društvenih izazova, Industrijskog vodstva te Industrijskih tehnologija

# MULTIDISCIPLINARNOST U OBZORU

## ENERGIJA - TRANSPORT - ICT...

- biogoriva i alternativna goriva
- bioenergetski strojevi
- energetska skladištenja
- 'pametni gradovi'



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# KORISNE POVEZNICE

Službeni hrvatski portal Obzor 2020

[www.obzor2020.hr](http://www.obzor2020.hr)

Portal za sudionike

<http://ec.europa.eu/research/participants/portal4/desktop/en/home.html>



## Maja Salapić

### Obzor 2020. nacionalna osoba za kontakt

- Društveni izazov 3: „**Sigurna, čista i učinkovita energija**”
- Društveni izazov 4: „**Pametnan, zeleni i integrirani promet**”

### Agencija za mobilnost i programe Europske unije

T: +385 (0)1 5005 958 F: +385 (0)1 5005699

[maja.salapic@mobilnost.hr](mailto:maja.salapic@mobilnost.hr)

[www.mobilnost.hr](http://www.mobilnost.hr)





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# HVALA NA PAŽNJI!

