



ХОРИЗОНТ 2020

Енергетика

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Крагујевац, 19. фебруар 2014

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION



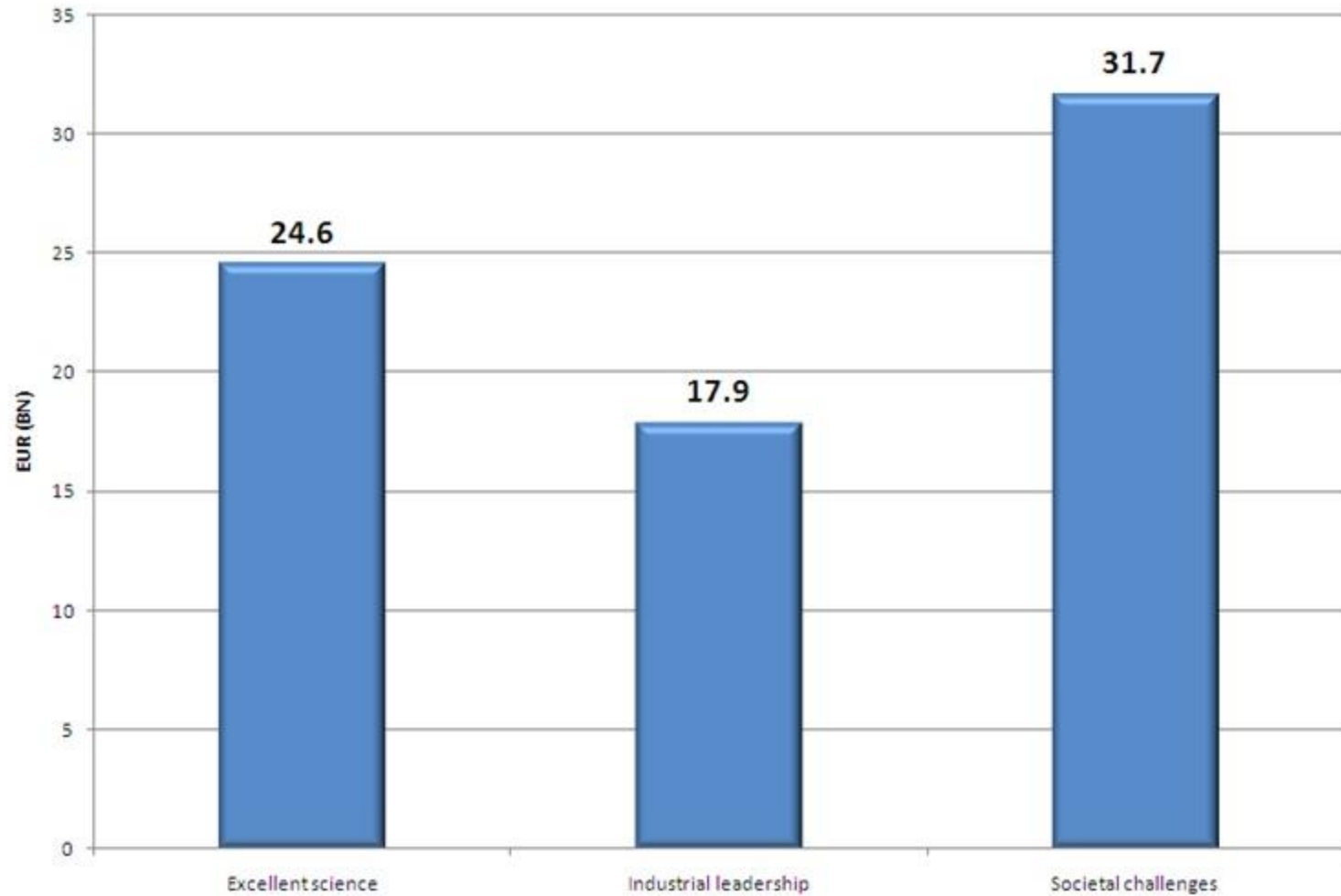
HORIZON 2020



Europe 2020

Single market for business Innovation Union Growth for jobs Resilient economic recovery Sustainable growth for the planet and people Equality for all European priorities and priorities

Три стуба финансирања



Енергетика у темама

Societal Challenges

Secure, Clean and Efficient Energy

H2020-SCC-2014

H2020-EE-2014-3 MarketUptake

H2020-LCE-2014-1

H2020-LCE-2014-2

H2020-LCE-2014-3

H2020-LCE-2014-4

Competitive Industries

Public Private Partnership

H2020-FoF-2014

H2020-EeB-2014

H2020-SPIRE-2014



Energy

(Secure, Clean and Efficient Energy)

Low Carbon Energy	dead line	budget
H2020-LCE-2014-01	2014-04-01 +17:00:00	€113,000,000
H2020-LCE-2014-02	2014-09-01 +17:00:00	€86,500,000
H2020-LCE-2014-03	2014-05-07 +17:00:00	€158,400,000
H2020-LCE-2014-04	2014-04-01 +17:00:00	€1,500,000



Energy

(Secure, Clean and Efficient Energy)

Smart Cities and Communities	dead line	budget
H2020-SCC-2014	2014-05-07 +17:00:00	€92,320,000

Energy Efficiency	dead line	budget
H2020-EE-2014-3-MarketUptake	2014-05-07 +17:00:00	€42,500,000

€494,220,000



Teme u okviru niskougljenične energetike

LCE-2014-01

LCE-01-2014: New knowledge and technologies

LCE-11-2014: Developing next generation technologies for biofuels and sustainable alternative fuels

LCE-15-2014: Enabling decarbonisation of the fossil fuel-based power sector and energy intensive industry through CCS

LCE-02-2014: Developing the next generation technologies of renewable electricity and heating/cooling

LCE-16-2014: Understanding, preventing and mitigating the potential environmental impacts and risks of shale gas exploration and exploitation



Teme u okviru niskougljenične energetike

LCE-2014-02

LCE-03-2014: Demonstration of renewable electricity and heating/cooling technologies

LCE-12-2014: Demonstrating advanced biofuel technologies

LCE-19-2014: Supporting coordination of national R&D activities

LCE-20-2014: The human factor in the energy system



Thematic scope of the Energy Challenge (Horizon 2020 Specific Programme)

- **Reducing energy consumption and carbon footprint by smart and sustainable use**

New concepts, non-technological solutions, technology components and systems for buildings, cities/districts, industry and individuals

- **Low-cost, low-carbon electricity supply**

innovative renewables, efficient and flexible fossil fuel power plants and carbon capture and storage, or CO₂ re-use technologies

- **Alternative fuels and mobile energy sources**

bio-energy; power and heat; surface, maritime and air transport; hydrogen and fuel cells; new options



Thematic scope of the Energy Challenge (Horizon 2020 Specific Programme)

- **A single, smart European electricity grid**

smart energy grid technologies, including storage; systems and market designs to plan, monitor, control and safely operate interoperable networks; standardisation issues; emergency conditions

- **New knowledge and technologies**

multi-disciplinary research for energy technologies (including visionary actions)

- **Robust decision making and public engagement**

tools, methods, models and perspective scenarios for a robust and transparent policy support

- **Market uptake of energy innovation**

applied innovation; promotion of standards; non-technological barriers; smart and sustainable use of existing technologies

HORIZON 2020 - Energy

LCE-02 – 2014 - Challenges

- **PV: Developing next generation high performance PV cells and modules**
- **CSP: Making CSP plants more cost competitive**
- **Wind: Develop control strategies and innovative substructure concepts**
- **Ocean: Develop emerging designs and components**
- **Hydropower: Boosting peak power through sustainable hydropower**
- **Deep Geothermal: Development of new drilling technologies and concepts for geothermal energy**
- **Renewable Heating & Cooling:**
 - **Solar cooling systems**
 - **Improving efficiency of biomass CHP systems while widening the feedstock base**

EURATOM Fission - Horizon 2020

Energy Efficiency	dead line	budget
NFRP-2014-2015	2014-09-17 +17:00:00	€48,310,000



Хвала

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