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Societal Challenge “Secure, clean and efficient energy” New calls 2016-2017: Opportunities for Third/EaP countries

Neven Duić, SDEWES Centre, Croatia



**Training on International Cooperation
Minsk, Belarus, 29th February 2016**

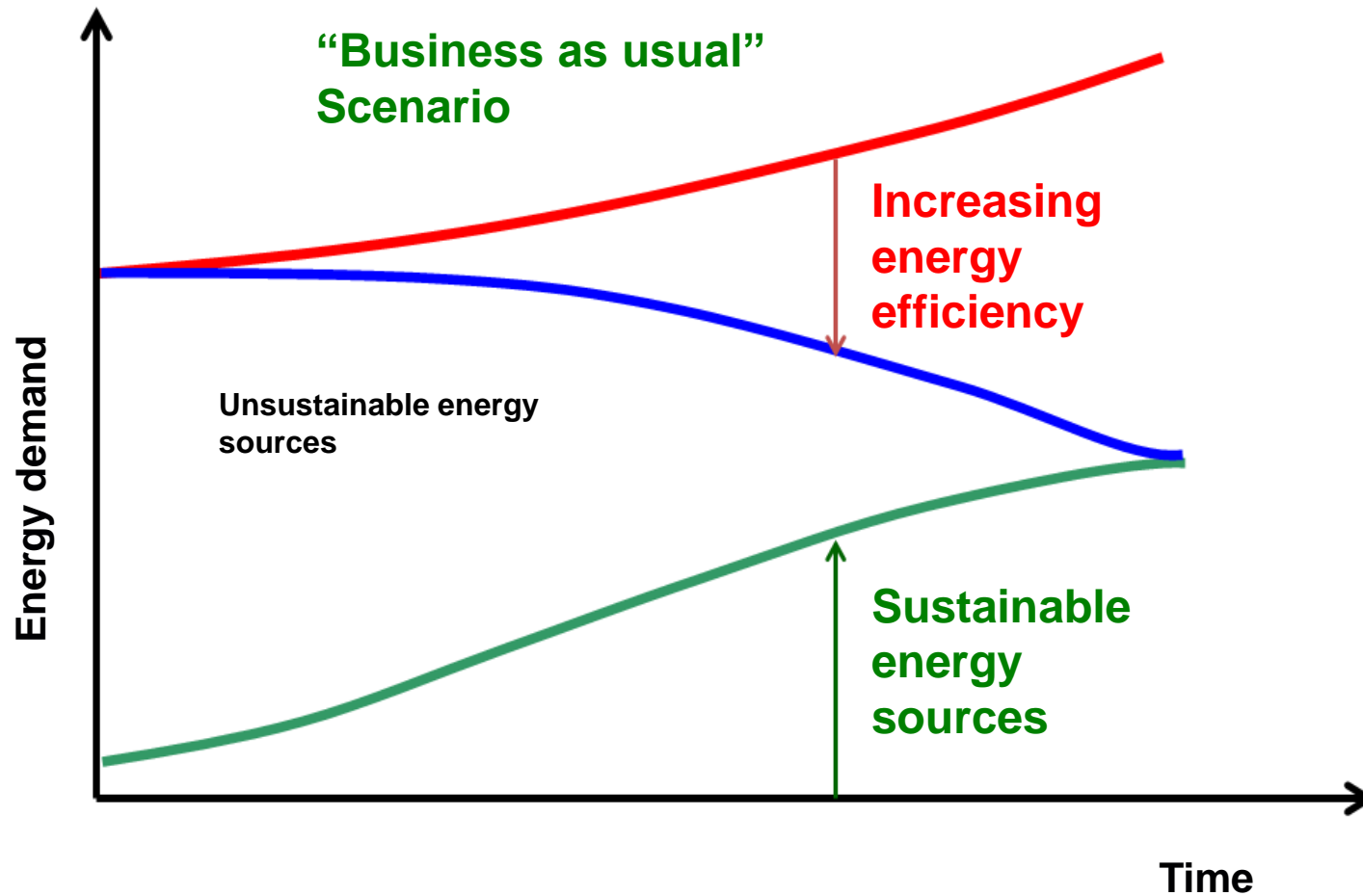


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Participation rules for H2020

- **Eastern Partnership countries can participate in all H2020 calls, except where this is explicitly excluded in the call text**
- **Moldova and Ukraine associate members of H2020**
- **Georgia pending signature of associate membership of H2020 in 2016 – to be provisionally applicable as of January 1, 2016**
- **Armenia pending signature of associate membership of H2020 in 2016**
- **Minimum 3 beneficiaries from 3 different EU Member States (MS) or H2020 associated countries (AC)**
- **Additional beneficiaries from any country allowed**
- http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/3cpart/h2020-hi-list-ac_en.pdf





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Energy Efficiency

Context:

The WP 2016-2017 for EE

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-energy_en.pdf

- responds to the latest **policy challenges & targets in the EE field**
- builds on the **Scoping Paper**, the **SET-Plan Integrated Roadmap priorities** and the priorities defined under the cPPP on buildings (EeB) and industry (SPIRE)
- addresses **the current technological and market barriers**; in particular the EE topics have a **strong focus on consumers**
- takes into account the **outcomes and lessons learnt from the EE Call 2014**; building also on the results of previous programmes and projects (Intelligent Energy Europe, FP7)

Experience from the EE Calls 2015

- Large oversubscription



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Energy Efficiency

Heating and cooling (H&C)

Research activities

- Waste heat recovery/heat recycling for H&C of buildings
- Innovative solutions for district H&C in areas of buildings with high energy standards
- Low-exergy H&C solutions using low temperature sources
- Models and tools for H&C mapping and planning

Demonstration activities

- Standardised installation packages for the integration of multi-components (hybrid) renewable and energy efficiency solutions into buildings

Market uptake activities

- Replication of successful approaches for the retrofitting of large scale inefficient district heating networks
- Roll-out of integrated solutions for the uptake of energy efficient and renewable heating and cooling in existing applications



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Energy Efficiency

Engaging consumers towards energy efficiency

Research activities

- ICT solutions to promote energy efficiency through behavioural change
- Behavioural economics related to energy efficiency

Market uptake activities

- Innovative behavioural change/ and engagement actions for changing the behaviour of consumers in their everyday life
- Empowering stakeholders to assist public authorities in the definition and implementation of sustainable energy policies and measures
- Engaging and activating public authorities
- ERASMUS for public authority officers
- Public Procurement to increase the energy-efficiency of buildings, products and services



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Energy Efficiency

Buildings

Research activities

- Technologies supporting rapid/cost-effective deep renovation of buildings (EeB PPP)
- Development of new cost effective thermal energy storage materials and full systems with energy demand side resources for use in individual buildings

Demonstration activities

- Demand response and energy management in buildings (EeB PPP)

Market uptake activities

- Overcoming the market barriers and promoting deep renovation of buildings
- Cost reduction of new high energy performing buildings
- Construction skills
- Support and monitor market transformation



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Energy Efficiency

Industry, products and services

Research activities

- Innovative solutions of industrial symbiosis between intensive industries for the valorisation of waste heat
- New technologies for the efficient recovery of waste heat in large industrial systems
- Design of energy flows, lay-outs, energy supply model and technical and management organisation of energy supply

Market uptake activities

- Actual implementation of EE measures in industry
- Ensuring effective implementation of EU product efficiency legislation
- Deployment of industrial symbiosis for more energy efficiency
- Driving energy innovation through large buyer groups
- Pre-commercial/Innovation procurement of public Green Data Centres



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Energy Efficiency

Innovative financing for energy efficiency investments

Market uptake activities

- Project Development Assistance
- Innovative financing schemes
- Making the energy efficiency market investible
- Development and roll-out of innovative energy efficiency services



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Energy Efficiency

- Topic: EE-01-2017:Waste heat recovery from urban facilities and re-use to increase energy efficiency of district or individual heating and cooling systems
- Types of action: IA Innovation action
- DeadlineModel: single-stage
- Opening date: 15 June 2016
- Deadline: 19 January 2017 17:00:00

- Topic: EE-02-2017:Improving the performance of inefficient district heating networks
- Types of action: CSA Coordination and support action
- DeadlineModel: single-stage
- Opening date: 19 January 2017
- Deadline: 07 June 2017 17:00:00

- Topic: EE-06-2016-2017:Engaging private consumers towards sustainable energy
- Types of action: CSA Coordination and support action
- DeadlineModel: single-stage
- Opening date: 15 March 2016
- Deadline: 15 September 2016 17:00:00



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Energy Efficiency

- Topic: EE-09-2016-2017:Engaging and activating public authorities
- Types of action: CSA Coordination and support action
- DeadlineModel: single-stage
- Opening date: 15 March 2016
- Deadline: 15 September 2016 17:00:00

- Topic: EE-11-2016-2017:Overcoming market barriers and promoting deep renovation of buildings Forthcoming
- Types of action: CSA Coordination and support action
- DeadlineModel: single-stage
- Opening date: 15 March 2016
- Deadline: 15 September 2016 17:00:00

- Topic: EE-12-2017:Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership (EeB PPP)
- Types of action: IA Innovation action
- DeadlineModel: single-stage
- Opening date: 15 June 2016
- Deadline: 19 January 2017 17:00:00



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Energy Efficiency

- Topic: EE-13-2016:Cost reduction of new Nearly Zero-Energy buildings
- Types of action: CSA Coordination and support action
- DeadlineModel: single-stage
- Opening date: 15 March 2016
- Deadline: 15 September 2016 17:00:00

- Topic: EE-14-2016-2017:Construction skills
- Types of action: CSA Coordination and support action
- DeadlineModel: single-stage
- Opening date: 15 March 2016
- Deadline: 15 September 2016 17:00:00

- Topic: EE-15-2017:Increasing capacities for actual implementation of energy efficiency measures in industry and services
- Types of action: CSA Coordination and support action
- DeadlineModel: single-stage
- Opening date: 19 January 2017
- Deadline: 07 June 2017 17:00:00



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Energy Efficiency

- Topic: EE-16-2016-2017:Effective implementation of EU product efficiency legislation
Forthcoming
- Types of action: CSA Coordination and support action
- DeadlineModel: single-stage
- Opening date: 15 March 2016
- Deadline: 15 September 2016 17:00:00

- Topic: EE-18-2017:Energy efficiency of industrial parks through energy cooperation and mutualised energy services
- Types of action: CSA Coordination and support action
- DeadlineModel: single-stage
- Opening date: 19 January 2017
- Deadline: 07 June 2017 17:00:00

- Topic: EE-19-2017:Public Procurement of Innovative Solutions for energy efficiency
- Types of action: PPI Public Procurement of Innovative solutions
- DeadlineModel: single-stage
- Opening date: 19 January 2017
- Deadline: 07 June 2017 17:00:00



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Energy Efficiency

- Topic: EE-20-2017:Bringing to market more energy efficient and integrated data centres
- Types of action: IA Innovation action
- DeadlineModel: single-stage
- Opening date: 15 June 2016
- Deadline: 19 January 2017 17:00:00

- Topic: EE-21-2016:ERA-NET Cofund actions supporting Joint Actions towards increasing energy efficiency in industry and services
- Types of action: ERA-NET-Cofund ERA-NET Cofund
- DeadlineModel: single-stage
- Opening date: 15 March 2016
- Deadline: 15 September 2016 17:00:00

- Topic: EE-22-2016-2017:Project Development Assistance
- Types of action: CSA Coordination and support action
- DeadlineModel: single-stage
- Opening date: 15 March 2016
- Deadline: 15 September 2016 17:00:00



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Energy Efficiency

- Topic: EE-23-2017: Innovative financing schemes
- Types of action: CSA Coordination and support action
- DeadlineModel: single-stage
- Opening date: 19 January 2017
- Deadline: 07 June 2017 17:00:00

- Topic: EE-24-2016-2017: Making the energy efficiency market investible
- Types of action: CSA Coordination and support action
- DeadlineModel: single-stage
- Opening date: 15 March 2016
- Deadline: 15 September 2016 17:00:00

- Topic: EE-25-2016: Development and roll-out of innovative energy efficiency services
- Types of action: CSA Coordination and support action
- DeadlineModel: single-stage
- Opening date: 15 March 2016
- Deadline: 15 September 2016 17:00:00



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Competitive Low-Carbon Energy

Towards an integrated EU energy system

Context

The WP 2016-2017 for LCE

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-energy_en.pdf

- We need to evolve from a technology based approach to a system based approach
- The updated structure of the Set-Plan promotes an integrated EU energy system
- As a first step: storage and smart grid are part of a same Topic and Topics for the energy system are contemplated



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Competitive Low-Carbon Energy

Towards an integrated EU energy system

Research activities

- Next generation innovative technologies enabling smart grids, storage and energy system integration with increasing share of renewables: distribution network
- Tools for integration and coordination of the energy system

Demonstration activities

- Demonstration of smart grid, storage and system integration technologies with increasing share of renewables: distribution system
- Demonstration of smart transmission grid, storage and system integration technologies with increasing share of renewables
- Integrated solutions for weak grids
- ICT solutions for the integration of smart grids, storage and renewable energy sources - focusing on the distribution part of the network



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Competitive Low-Carbon Energy

Renewable energy technologies

Context

- Energy Union
- Climate change challenges
- SET-Plan Intergrated Roadmap & Action plans
- Accelerating the energy transistion



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Competitive Low-Carbon Energy

RES integration in the Energy System

- RES system support functions for the future energy system

Biofuels and Alternative Fuels

- Diversification of sustainable fuel production through new conversion routes and new fuels
- Development of next generation biofuel technologies
- Demonstration of the most promising advanced biofuel pathways
- Facilitating the market roll out of sustainable advanced liquid biofuels and alternative fuels
- Development of new biofuel molecules and their evaluation for the transport sector (tbc, joint topic with SC4)
- International Cooperation with Brazil on Ethanol development



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Competitive Low-Carbon Energy

Photovoltaics

- Supporting the EU PV manufacturing industry
- Tackling the bottlenecks of high penetration levels of PV electricity into the electric power network
- Support to the activities of the PV TP to contribute to the SET-Plan
- Support to emerging PV technologies
- Reducing the cost of PV electricity

Concentrated Solar Power

- Development of new components and configurations to make CSP plants more cost competitive
- Use of solar resource for desalination
- Solutions for reducing the water consumption of CSP plants



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Competitive Low-Carbon Energy

Wind energy

- Advanced wind control of large scale wind turbines and wind farms
- Solutions for reduced maintenance, increased reliability and extended life time
- Reduction of environmental impact of wind energy
- Demonstration of offshore large >10MW wind turbines

Ocean energy

- Increased performance and reliability of ocean energy subsystems
- 2nd Generation of design tools for array development and deployment
- Innovative power take-off systems and control strategies
- Support to the activities of the platform TPOcean and EERA JP Ocean to contribute to the SET-Plan

Hydro power

- Fish-friendly small hydropower solutions
- Increasing flexibility of hydropower



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Competitive Low-Carbon Energy

Combined Heat and Power

- Development of highly efficient, low emission medium- and large scale biomass based CHP systems
- Transforming renewable energy into intermediates

Solar Heating and Cooling

- Developments to improve reliability and reduce complexity of solar cooling systems
- Development of components for residential single family solar active houses

Geothermal energy

- Improving borehole heat exchangers
- Easy to install and efficient systems for retrofitting
- Materials for geothermal energy and high temperature production pumps
- EGS in different geological situations and up-scaling of existing plants
- Tackling the bottlenecks of high penetration levels for geothermal energy systems (market uptake measures)
- International Cooperation with Mexico



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Competitive Low-Carbon Energy

Enabling the decarbonisation of the use of fossil fuels during the transition to a low-carbon economy

Context

- Cost of capture is still high, but there is scope for cost reduction through new capture technologies and CO₂ utilisation
- Industrial-scale CCS is technically ready for demonstration but needs joint EU/MS action to kick-start the first operational demo
- Flexibility of thermal power plants will be of increasing relevance in the transition to a low-carbon energy system

Experiences from the 2014 calls

- Geological storage: 4 proposals received, none successful
- CCS in carbon-intensive industries: 15 proposals received, 2 successful
- Environmental aspects of shale gas: 23 proposals received, 4 successful



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Competitive Low-Carbon Energy

Enabling the decarbonisation of the use of fossil fuels during the transition to a low-carbon economy

- New generation high-efficiency capture processes
- Use of captured CO₂ as feedstock for the process industry
- ERA-NET to support the operational demonstration of post-combustion CO₂ capture and geological storage at industrial scale
- CCS in industry, including Bio-CCS
- Geological storage pilots
- Highly flexible and efficient fossil fuel power plants
- Cross-thematic ERA-NET on Applied Geosciences
- Support to key activities of the European Technology Platform on Zero Emission Energy Production



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Competitive Low-Carbon Energy

Socio-economic research, ERA-NETs

Context

- Mainstreaming of social sciences and humanities in all activities
- Increased awareness of importance of socio-economic issues for the energy system
- Joint actions implementing the SET-Plan Action Plan

Experiences from the 2014 calls

- Very strong interest in SSH activities
- More precise topic description for SSH
- Good interest in ERA-NET COFUND



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Competitive Low-Carbon Energy

Social, environmental and economic aspects of the energy system

- Social Sciences and Humanities Support for the Energy Union
- European Platform for energy-related Social Sciences and Humanities research

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

- Supporting Joint Actions on demonstration and validation of innovative energy solutions

Contribution from the LEIT NMBP part

- Advanced materials and nanotechnologies for energy applications



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Low-Carbon Energy

Topic: LCE-01-2016-2017:Next generation innovative technologies enabling smart grids, storage and energy system integration with increasing share of renewables: distribution network

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 08 December 2015

Deadline: 05 April 2016 17:00:00

Topic: LCE-02-2016:Demonstration of smart grid, storage and system integration technologies with increasing share of renewables: distribution system

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 08 December 2015

Deadline: 05 April 2016 17:00:00

Topic: LCE-03-2016:Support to R&I strategy for smart grid and storage

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 08 December 2015

Deadline: 05 April 2016 17:00:00



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Low-Carbon Energy

Topic: LCE-04-2017: Demonstration of smart transmission grid, storage and system integration technologies with increasing share of renewables

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 20 September 2016

Deadline: 14 February 2017 17:00:00

Topic: LCE-05-2017: Tools and technologies for coordination and integration of the European energy system

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 20 September 2016

Deadline: 14 February 2017 17:00:00

Topic: LCE-06-2017: New knowledge and technologies

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 20 September 2016

Deadline: 05 January 2017 17:00:00



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Low-Carbon Energy

Topic: LCE-09-2016:Increasing the competitiveness of the EU PV manufacturing industry

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 11 May 2016

Deadline: 08 September 2016 17:00:00

Topic: LCE-10-2017:Reducing the cost of PV electricity

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 11 May 2017

Deadline: 07 September 2017 17:00:00

Topic: LCE-11-2017:Near-to-market solutions for reducing the water consumption of CSP Plants

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 11 May 2017

Deadline: 07 September 2017 17:00:00



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Low-Carbon Energy

Topic: LCE-12-2017:Near-to-market solutions for the use of solar heat in industrial processes

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 11 May 2017

Deadline: 07 September 2017 17:00:00

Topic: LCE-13-2016:Solutions for reduced maintenance, increased reliability and extended life-time of off-shore wind turbines/farms

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 11 May 2016

Deadline: 08 September 2016 17:00:00

Topic: LCE-14-2017:Demonstration of large >10MW wind turbine

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 11 May 2017

Deadline: 07 September 2017 17:00:00



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Low-Carbon Energy

Topic: LCE-15-2016:Scaling up in the ocean energy sector to arrays

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 11 May 2016

Deadline: 08 September 2016 17:00:00

Topic: LCE-16-2017:2nd Generation of design tools for ocean energy devices and arrays development and deployment

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 11 May 2017

Deadline: 07 September 2017 17:00:00

Topic: LCE-17-2017:Easier to install and more efficient geothermal systems for retrofitting buildings

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 11 May 2017

Deadline: 07 September 2017 17:00:00



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Low-Carbon Energy

Topic: LCE-18-2017:EGS in different geological conditions

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 11 May 2017

Deadline: 07 September 2017 17:00:00

Topic: LCE-19-2016-2017: Demonstration of the most promising advanced biofuel pathways

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 11 May 2016

Deadline: 08 September 2016 17:00:00

Topic: LCE-20-2016-2017: Enabling pre-commercial production of advanced aviation biofuel

Types of action: IA Innovation action

DeadlineModel: single-stage

Opening date: 11 May 2016

Deadline: 08 September 2016 17:00:00



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Low-Carbon Energy

Topic: LCE-21-2017:Market uptake of renewable energy technologies

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 20 September 2016

Deadline: 05 January 2017 17:00:00

Topic: LCE-22-2016:International Cooperation with Brazil on advanced lignocellulosic biofuels

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 11 May 2016

Deadline: 08 September 2016 17:00:00

Topic: LCE-26-2016:Cross-thematic ERA-NET on Applied Geosciences

Types of action: ERA-NET-Cofund ERA-NET Cofund

DeadlineModel: single-stage

Opening date: 08 December 2015

Deadline: 05 April 2016 17:00:00

Time Zone : (Brussels time)



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Low-Carbon Energy

Topic: LCE-27-2017:Measuring, monitoring and controlling the risks of CCS, EGS and unconventional hydrocarbons in the subsurface

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 20 September 2016

Deadline: 05 January 2017 17:00:00

Topic: LCE-28-2017:Highly flexible and efficient fossil fuel power plants

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 20 September 2016

Deadline: 05 January 2017 17:00:00

Topic: LCE-29-2017:CCS in industry, including Bio-CCS

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 20 September 2016

Deadline: 05 January 2017 17:00:00



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Low-Carbon Energy

Topic: LCE-30-2017:Geological storage pilots

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 20 September 2016

Deadline: 05 January 2017 17:00:00

Topic: LCE-32-2016:European Platform for energy-related Social Sciences and Humanities research

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Opening date: 08 December 2015

Deadline: 05 April 2016 17:00:00

Topic: LCE-33-2016:European Common Research and Innovation Agendas (ECRIAs) in support of the implementation of the SET Action Plan

Types of action: RIA Research and Innovation action

DeadlineModel: single-stage

Opening date: 08 December 2015

Deadline: 05 April 2016 17:00:00



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Low-Carbon Energy

Topic: LCE-34-2016:Joint Actions towards the demonstration and validation of innovative energy solutions

Types of action: ERA-NET-Cofund ERA-NET Cofund

DeadlineModel: single-stage

Opening date: 08 December 2015

Deadline: 05 April 2016 17:00:00

Topic: LCE-35-2016:Framework Partnership Agreement supporting Joint Actions towards the demonstration and validation of innovative energy solutions

Types of action: FPA Framework Partnership Agreement

DeadlineModel: single-stage

Opening date: 14 April 2016

Deadline: 08 September 2016 17:00:00



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Smart Cities and Communities

Context

- Smart Cities 2012-2013: Energy and ICT
- Smart Cities 2014-2015: Energy, ICT and Transport
- Smart Cities 2016-2017: Energy, ICT, Transport and Nature based solutions

Goal

- To create a critical mass of lighthouse projects by 2020
- To truly entrain followers to replicate SCC solutions
- To pioneer with coaching cities

Experiences from the 2014 calls

- A too wide number of features; unclear separation of compulsory, recommended or examples given
- The topic should be streamlined and the point above clarified



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Smart Cities and Communities – with Nature-based solutions

- Continuation of the **lighthouse project approach**

Contribution from Societal Challenge 5

- R&I: Innovative and systemic governance, business, financing models & economic IA tools for renaturing cities
- Demonstrating innovative nature-based solutions for energy efficiency and climate resilience in cities
- Nature-Based Solutions for Inclusive, Equitable and Liveable cities (including regeneration of deprived districts)



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Smart Cities and Communities

Topic: SCC-01-2016-2017:Smart Cities and Communities lighthouse projects

Types of action: IA Innovation action DeadlineModel: single-stage

Opening date: 08 December 2015 Deadline: 05 April 2016 17:00:00

Topic: SCC-02-2016-2017:Demonstrating innovative nature-based solutions in cities

Types of action: IA Innovation action DeadlineModel: two-stage

Opening date: 10 November 2015 Deadline: 08 March 2016 17:00:00

2nd stage Deadline: 06 September 2016 17:00:00

Topic: SCC-03-2016:New governance, business, financing models and economic impact assessment tools for sustainable cities with nature-based solutions (urban re-naturing)

Types of action: RIA Research and Innovation act. DeadlineModel: single-stage

Opening date: 10 November 2015 Deadline: 08 March 2016 17:00:00

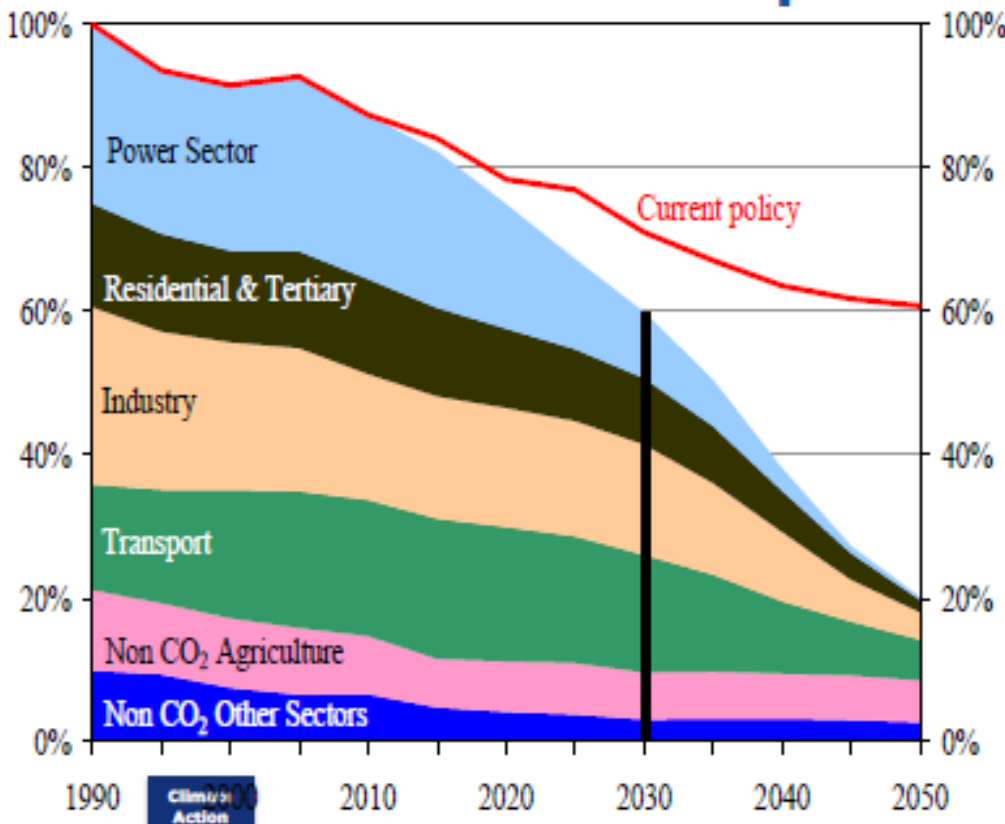
Topic: SCC-04-2016:Sustainable urbanisation

Types of action: ERA-NET-Cofund ERA-NET Cofund DeadlineModel: single-stage

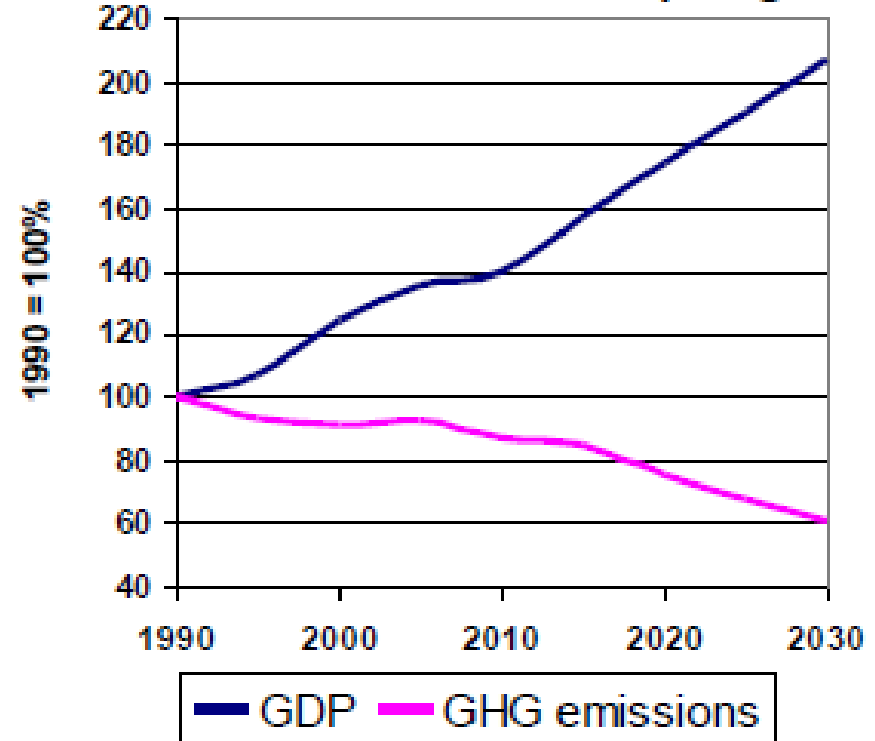
Opening date: 10 November 2015 Deadline: 08 March 2016 17:00:00



Decoupling is possible – EU case



GDP and GHG decoupling





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Thank you for your attention

Дзякую вас за ўвагу!

Благодарю вас за внимание!

Շնորհակալութիւնս ուշադրութեան համար!

Diqqətinizə görə təşəkkür edirəm!

მადლობა გადაგიხადოთ თქვენი ყურადღება!

Дякую за увагу!