

Horizon 2020 – opportunities 2015

Webinar, 16th Dec 2014– **Geothermal TP**

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Horizon 2020 - Work programme 2014 & 2015

Excellent science

Industrial leadership

5. Leadership in enabling and industrial technologies (LEITs)

i. Information and communication technologies

ii. Nanotechnologies, Advanced materials, Advanced manufacturing and processing, Biotechnology

Societal challenges

10. Secure, clean and efficient energy

12. Climate action, environment, resource efficiency and raw materials

Spreading excellence and widening participation

Science with and for society

Communication, Dissemination and Exploitation

Leadership in enabling and industrial technologies (LEITs)

ii. Nanotechnologies, Advanced materials, Advanced manufacturing and processing, Biotechnology

Nanotechnology and Advanced Materials for low-carbon energy technologies and Energy Efficiency

- **NMP 15 – 2015: Materials innovations for the optimisation of cooling in power plants (TRL 6)**
- **NMP 16 – 2015: Extended in-service life of advanced functional materials in energy technologies (capture, conversion, storage and/or transmission of energy) (TRL 6)**
- **NMP 24 – 2015: Low-energy solutions for drinking water production (from TRL 4-5 to 6-7)**

deadline: first stage 26/03/2015

Leadership in enabling and industrial technologies (LEITs)

ii. Nanotechnologies, Advanced materials, Advanced manufacturing and processing, Biotechnology

Nanotechnology and Advanced Materials for low-carbon energy technologies and Energy Efficiency

Cooling towers, air condensers (optimize performance, reduce noise & size)

- NMP 15 – 2015: Materials innovations for the optimisation of cooling in power plants (TRL 6)
- NMP 16 – 2015: Extended in-service life of advanced functional materials in energy technologies (capture, conversion, storage and/or transmission of energy) (TRL 6)
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Geothermal desalination

Leadership in enabling and industrial technologies (LEITs)

ii. Nanotechnologies, Advanced materials, Advanced manufacturing and processing, Biotechnology

Call for EeB – Energy-efficient Buildings

- EeB 5 – 2015: Innovative design tools for refurbishment at building and district level (TRL 5-7)
- EeB 6 – 2015: Integrated solutions of thermal energy storage for building applications (TRL 4-6)
- EeB 7 – 2015: New tools and methodologies to reduce the gap between predicted and actual energy performances at the level of buildings and blocks of buildings (TRL 5-7)
- EeB 8 – 2015: Integrated approach to retrofitting of residential buildings (TRL 5-7)

Deadline: 04/02/2015

Leadership in enabling and industrial technologies (LEITs)

ii. Nanotechnologies, Advanced materials, Advanced

The topic	Potential R&D
Underground components	<ul style="list-style-type: none">- Thermal and hydraulic design of heatexchangers- Heatexchanger applications & materials- Foundation heatexchangers
Underground installation	<ul style="list-style-type: none">-Improved productivity-Long term quality (thermal & enviromental)-Working conditions, Health and Safety
Integrated design	<ul style="list-style-type: none">-Site investigation, in situ testing, models-Dynamic relation: building-installation-underground-Hybrid installation design-Operating strategies, control strategies
Sustainability Environmental impact	<ul style="list-style-type: none">-Underground interference between systems-Thermal storage effects-Design tools for long term environmental evaluation-Low cost environmentally friendly antifreeze

Societal challenges

10. Secure, clean and efficient energy

Call for Energy-efficiency

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

Call for Competitive low carbon energy

- Renewable electricity and heating/cooling
- Modernising the European electricity grid
- Providing the energy system with flexibility through storage
- Biofuels
- Fossil fuels
- ERA, etc.

Call Smart cities and communities

Call – SMEs and fast track to innovation for energy

Societal challenges

10. Secure, clean and efficient energy

Call for Energy-efficiency: A. Buildings and consumers

- **EE 1 – 2014: Manufacturing of prefabricated modules for renovation of buildings** 'RES integrated into prefabricated components' (TRL 5-7)

deadline: 20/03/2014

- Received: 23.
- Eligible: 22.
- Above threshold: 10.
- Below threshold: 12

- **EE 2 – 2015: Buildings design for new highly energy performing buildings** 'RES, low temperature, storage, NZEB' (TRL 5-7)

deadline: 04/02/2015

Societal challenges

10. Secure, clean and efficient energy

Call for Energy-efficiency: A. Buildings and consumers

- EE3 – 2014: Energy strategies and solutions for deep renovation of historic buildings (TRL 4-6)

deadline: 20/03/2014

- Received: 32
- Eligible: 31
- Above threshold: 7
- Below threshold: 24

- EE 4 – 2014: Construction skills ‘Buildup skills, training on EE and RES’

deadline: 04/06/2015

- Received: 25
- Above threshold: 7
- Below threshold: 18

Societal challenges

10. Secure, clean and efficient energy

Call for Energy-efficiency: A. Buildings and consumers

- **EE 5 – 2014/2015: Increasing energy performance of existing buildings through process and organisation innovations and creating a market for deep renovation ‘NZEB performance level’**

deadline: 04/06/2015 (28 proposals received in 2014)

- **EE 6 – 2015: Demand response in blocks of buildings ‘integrate RES, micro-CHP’ (TRL 6-7)**

deadline: 04/06/2015

- **EE 9– 2014/2015: Empowering stakeholders to assist public authorities in the definition and implementation of sustainable energy policies and measures ‘non technical’**

Deadline: 04/06/2015 (18 proposals received in 2014)

Societal challenges

10. Secure, clean and efficient energy

Call for Energy-efficiency: B. Heating and Cooling

- **EE 13 – 2014/2015: Technology for district heating and cooling 'RES, CHP, storage' (TRL 4-6)**

deadline: 04/06/2015 (26 proposals received in 2014)

- **EE 14 - 2014/2015: Removing market barriers to the uptake of efficient heating and cooling solutions**

deadline: 04/06/2015 (10 proposals received in 2014)

Societal challenges

10. Secure, clean and efficient energy

Call for Competitive low carbon energy:

Renewable electricity and heating/cooling

- LCE 4 – 2014/2015: Market uptake of existing and emerging renewable electricity, heating and cooling technologies

deadline: 05/05/2015

in 2014 for LCE 4:

Number of proposals submitted:39

Number of inadmissible or ineligible proposals:1

Number of proposals receiving an evaluation score above the applicable threshold:12

in 2014 for LCE 3:

Number of proposals submitted in total :31

Number of proposals submitted for geothermal :5

Societal challenges

10. Secure, clean and efficient energy

Call for SMART CITIES AND COMMUNITIES

- **SCC-01-2015: Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse (large scale demonstration - first of the kind) projects**
- **SCC-03-2015: Development of system standards for smart cities and communities solutions**

- deadline: 05/05/2015

in 2014 for SCC-01:

Number of proposals submitted:19

Number of proposals receiving an evaluation score above the applicable threshold:5

Societal challenges

HORIZON 2020 DEDICATED SME INSTRUMENT

Deadline Date 16-12-2015 17:00:00 (Brussels local time)

Cut-off date(s) 18-03-2015 17:00:00 (Brussels local time)
17-06-2015 17:00:00 (Brussels local time)
17-09-2015 17:00:00 (Brussels local time)



Geothermal products and components, software



Information on Calls

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>



Thank you
for your kind attention