

Mayors' Geothermal Club Conference

Some Elements for the Roundtable

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Contents

Barriers

Support of the sector

- H2020
- NER300
- InnovFin
- ESIF

Elements of discussion



Barriers to the sector

- ✓ High upfront investment
 - 50% of investment is exploration
- ✓ Lack of risk mitigation scheme
- ✓ Reduced interest of large industry
- ✓ Reduced exploitation of cross-fertilization
- ✓ Lack of regulatory framework (licencing)
- ✓ Public acceptance



Horizon 2020

2016/17 WP: call priorities

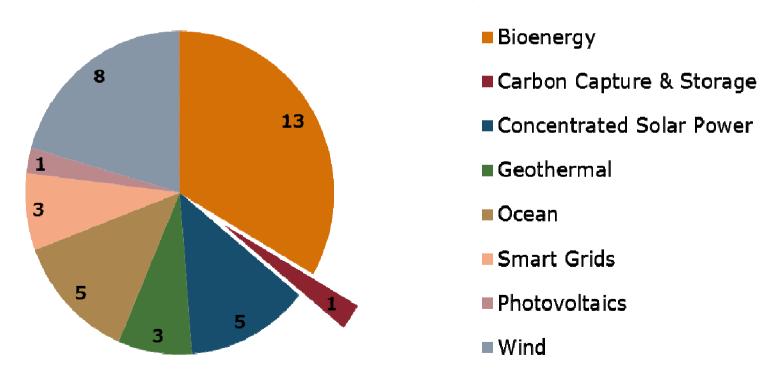
- LCE-17-2017: Easier to install and more efficient geothermal systems for retrofitting buildings (IA)
- LCE-18-2017: EGS in different geological conditions (IA)
- LCE-21-2017 (5): Market uptake of renewable energy technologies (CSA)
- LCE-23-2016: International Cooperation with Mexico on geothermal energy (RIA)
- LCE-26-2016: Cross-thematic ERA-NET on Applied Geosciences



NER300 Call for Proposals (2012, 2014)

Calls funded by monetizing 300 million allowances

Approved projects per category





NER300 Geothermal Projects

Project	Entry into operation	NER300 funding (EUR)	Description
South Hungarian EGS Demonstration Project, HU	31/12/2015	39 295 008	✓ Development of EGS reservoir✓ 8,9 MW capacity✓ Battonya, HU
Geothermae, HR	31/01/2016	14 740 181	✓Electricity & heat from geothermal aquifer ✓ 3,1 MW capacity (ORC) ✓ Draskovec, (≈ Prelog), HR
GEOSTRAS, FR	01/04/2018	16 839 180	✓ Electricity & heat from geothermal aquifer ✓ 6,7 MW capacity + 34,7 MW (th) ✓ FR-DE cross border project (≈Strasbourg), FR



InnovFin EDP

- ✓ InnovFin Energy Demonstration Projects (EDP) in June 2015 (EC+EIB)
- ✓ Loans and loan guarantees for first-of-a-kind, commercial-scale industrial demonstration projects in renewables
- ✓ Complement grant-based programmes
 - ✓ NER300 and its successor (the Innovation Fund) which will draw on an endowment of 400 million emission allowances



ESIF (2014-2020)

European Structural and Investment Funds includes

- European Regional Development Fund (ERDF)
- European Social Fund (ESF)
- Cohesion Fund (CF)
- European Agricultural Fund for Rural Development (EAFRD) and
- European Maritime and Fisheries Fund (EMFF)



European Structural and Investment Funds (2014-2020)

- ✓ ESIF Funds managed under 'shared management' principle
 - ✓ Programming of spending developed in dialogue between MS and Commission
 - ✓ MSs responsible for selection, implementation and monitoring of cofunded projects
 - ✓ Operation based on Common provisions regulation (Regulation N°1303/2013) and Fund's specific Regulations
- ✓ EUR 40,2 billion allocated by MSs and regions to *Strengthening RTD&I*
- ✓ EUR 37,6 billion to *Supporting the shift towards a low-carbon economy* (EE, RES, Smart Grids and Sustainable Urban Mobility)



Elements of discussion/1

- ✓ Robust legal framework to trigger private investment
- ✓ Risk mitigation strategies and funding needed
- ✓ Information and data sharing (success stories!)
- ✓ Better and harmonised data collection
- √ Further research
- ✓ Training to installers
- ✓ Early involvement of public and municipalities



Element of discussion/2

- ✓ To make EU H/C system more sustainable and secure, MSs support schemes are necessary?
 - ✓ Options for support schemes: technology neutral or not?
- ✓ All new buildings should be NZEB by 2020. Which standards necessary to achieve that?
- ✓ MS preparing countrywide analysis on DH (EE directive art. 14)
- ✓ H/C Strategy by Jan 2016 (Winter energy package)



Final remarks

- ✓ Multi-level governance for the Energy Union
- ✓ Implementing the Energy Union strategy and contributing towards the energy transition requires involvement of local and regional authorities
- ✓ Commitment among citizens becoming ever more crucial to drive this change
- ✓ Empowering consumers on local projects