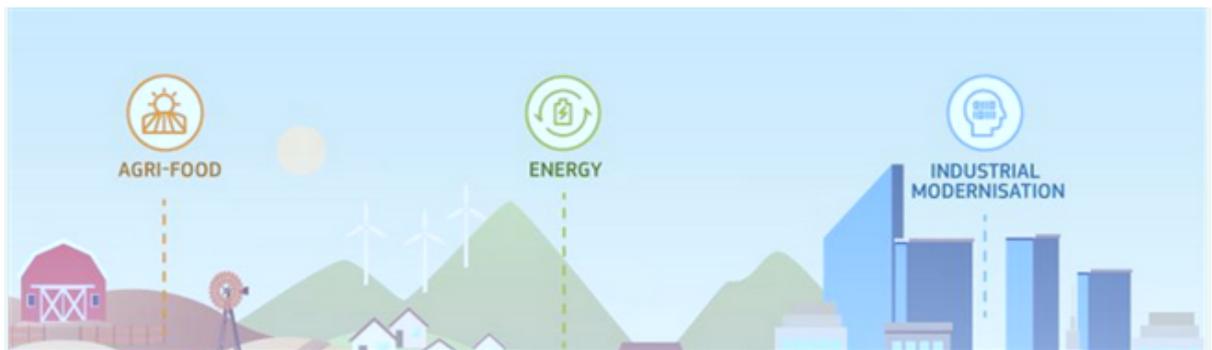


# Thematic Smart Specialisation Platforms Monitoring Progress Report

Fields marked with \* are mandatory.



## Thematic Smart Specialisation Partnership Monitoring Progress Report

This report is presented to the relevant Working/Steering Committee.

The report is updated every six months.

### Confidentiality:

The management report (section I) and progress report (section II) will be made available to the public via your Partnership's web page.

The part on self-assessment is confidential.

Based on the monitoring results, the European Commission will decide on the following term's support.

### \* Reporting period

July - December 2019

### \* Please select the name of your partnership

Geothermal Energy

## I. Management report

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### Please provide the executive summary of the objectives of your partnership

Geothermal energy is the thermal energy generated and stored into the Earth. It is considered a renewable source, as the huge amount of thermal energy produced and stored into the underground constantly flows to the crust's surface, through groundwater and steam flowing through cracks, faults and artificial boreholes. These properties make geothermal energy a secure and stable source over time, which can be extracted and used for power generation, direct heat uses, or exchanged with shallow formations by means of ground source heat pumps (GSHP). European Regions have created the S3 EUGEOREG Partnership to join their efforts in improving the competitiveness and innovative potential of the geothermal energy sector by addressing technological, social and environmental constraints.

### Please provide the list of leading regions

Tuscany (IT)

### Please provide the list of participating regions.

*If possible, please follow this format: "Name of the region in English (Country abbreviation), NUTS code".*

*e.g.:* Lapland (FI), FI1D7

Açores (PT), PT200  
Asturias (ES), ES120  
Scotland (UK), UKM  
Northern Ostrobothnia (FI), FI1D6  
East Netherlands (NL), NL2

### Please provide the list of interested regions or other entities (other than national /regional authorities)

Lombardy (IT); Canary Islands (ES); City of Groningen (NL); Zafer Development Agency (Turkey); Borsod-Abaúj-Zemplén County Development Agency (HU); Grand Est (FR); Nouvelle Aquitaine (FR); Bavaria (DE); South Holland Province (NL); Basque Country (ES).

Please provide an overview of the **working areas** of your partnership

	Working area	Region in charge	Involved regions	Other actors
1	Geothermal energy systems for built environment (eg. District heating and cooling for households, heat pumps and storage)	Scotland (UK)		
2	Use of geothermal heat in productive processes / industrial applications (eg. Greenhouses, Food productions, etc.)	To be decided		
3	Power generation	Tuscany (IT)		
4	Social and environmental aspects of deploying geothermal investments	To be decided		
5	Communication and external relations	Tuscany (IT)		
6				
7				
8				
9				
10				

Please provide information regarding past meetings, workshops and dissemination activities (six months prior to filling out the survey)

	Event	Date	Place	Any other information
1	Partnership Meeting	10/10/2019	Brussels	Meeting Report
2				
3				
4				
5				
6				
7				
8				
9				
10				

Please provide information regarding planned future meetings, workshops and dissemination activities

	Event	Date	Place	Any other information
1	Cross visit in Tuscany	March 2020	Tuscany (various sites)	
2	Joint initiative and tech meeting at EUSEW 2020	22-26 June 2020	Brussels	
3	Cross visit in Scotland	November 2020	Clyde Gateway (Glasgow area)	
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## II. Progress report

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### Innovative results

Please describe innovative results and achievements that could be attributed to the partnership (specific examples of results vs. objectives)

The partners have identified clear intervention areas based on existing needs and active projects:

1. Geothermal energy systems for built environment (eg. District heating and cooling for households, heat pumps and storage);
- 2) Use of geothermal heat in productive processes / industrial applications (eg. Greenhouses, Food productions, etc.);
- 3) Power generation;
- 4) Social and environmental aspects of deploying geothermal investments.

Tangible short- and medium-term socio-economic impacts achieved or expected (specific examples)

The partnership wants to generate the following impacts:

- increasing the adoption of geothermal solutions for heating and cooling
- increased acceptance of use of geothermal resources by local communities
- identification of co-investment areas for technological development of sustainable geothermal systems

### Inter-regional and inter-partnership collaborative results

Additional results obtained from working with other partnerships under the thematic S3 Platforms (specific examples)

Exchanges of best practices and approaches for:

- administrative procedures for authorization and financial support to investments;
- better programming and measures at regional level to support geothermal sector;
- identification of innovative technologies and solutions;
- participation to some Call for Proposals on European funded programme.

Evaluation of the involvement of relevant business sector (clusters, SMEs, business associations, chambers of commerce, Digital Innovation Hubs (DIHs), etcetera) in the Partnership activities (specific examples)

The Partnership has involved several relevant businesses:

- EGEC
- EC consulting
- Rete geotermica
- Cleantech region
- Scottish Enterprise
- DTE2V
- Pole AVENIA
- Clyde Gateway
- EC Profile
- ETIP-DG

Evaluation of whether the level of inter-regional cooperation is sufficient to potentially provide practical and relevant socio-economic impacts (specific examples)

The partnership cannot yet provide a feedback to this question.

## New activities

Involvement of regions from EU13 Member States in the Partnership, in particular with respect to scoping, mapping and/or matchmaking. In addition, justification should be provided if no EU13 regions are involved

Within EU13, Northern Hungary (Borsod-Abaúj-Zemplén County) is an observer region.  
A wide number of regions aimed at promoting the development of geothermal energy was involved and invited both to joining the partnership and in participating to meetings and workshop, including EU 13 regions, as: Hungarian Eszak-Magyarország, Budapest, South East region, West Pannon, Észak-Alföld, Polish Pomorskie and Podlaskie, Slovak Trenčín and South Estonia.

Involvement of regions/countries from outside of EU28 Countries. (Number of participants from non-EU countries (specify their contribution))

West Turkish provinces (Zafer). The region has a big geothermal potential and is interested in developing local sustainable development plans based on the use of geothermal resource. Besides, they will bring their experience on heat direct uses.

Advancement and promotion of the Partnership through publications and other communication/outreach activities (number of outreach activities that resulted from the partnership)

None

Activities and projects with partnerships working under other S3 Thematic Platforms (AgriFood, Energy and Industrial Modernisation)

None

## Your Partnership and the UN 2030 Sustainable Development Goals (SDGs)

The EU has a strong position when it comes to sustainable development and is also fully committed to be a frontrunner in implementing the UN's 2030 Agenda, together with its member countries and regions. Many interregional partnerships under the thematic S3 Platforms contribute strongly to the attainment of these 17 goals.

**Please indicate to which Sustainable Development Goals and to what extent your thematic Partnership contributes?**

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	Not applicable
Goal 1. End poverty in all its forms everywhere	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 2. End hunger, achieve food security and improved nutrition & promote sustainable agriculture	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 3. Ensure healthy lives & promote well-being for all at all ages	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Goal 5. Achieve gender equality & empower all women and girls	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Goal 6. Ensure availability and sustainable management of water and sanitation for all	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment & decent work for all	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialisation & foster innovation	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Goal 10. Reduce inequality within and among countries	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 11. Make cities & human settlements inclusive, safe, resilient and sustainable	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 12. Ensure sustainable consumption & production patterns	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 13. Take urgent action to combat climate change and its impacts	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 14. Conserve and sustainably use the oceans, seas & marine resources for sustainable development	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, halt and reverse land degradation and halt biodiversity loss	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 16. Promote peaceful & inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Goal 17. Strengthen the means of implementation and revitalise the Global Partnership for Sustainable Development	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>