

Regeocities: Removing barriers for SGE

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Regeocities

- Goal of the project:

Give cities tools to facilitate and promote SGE and help to achieve the national SGE targets

- More SGE
- CO₂-emission reduction
- Energy saving



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More specific...

- Mature countries: extensive legal framework
 - Legal framework facilitates SGE
- Juvenile countries: no legal framework
 - No legal framework barrier for SGE
- Regeocities project: assessment best practices
 - non-technical administrative and legal barriers

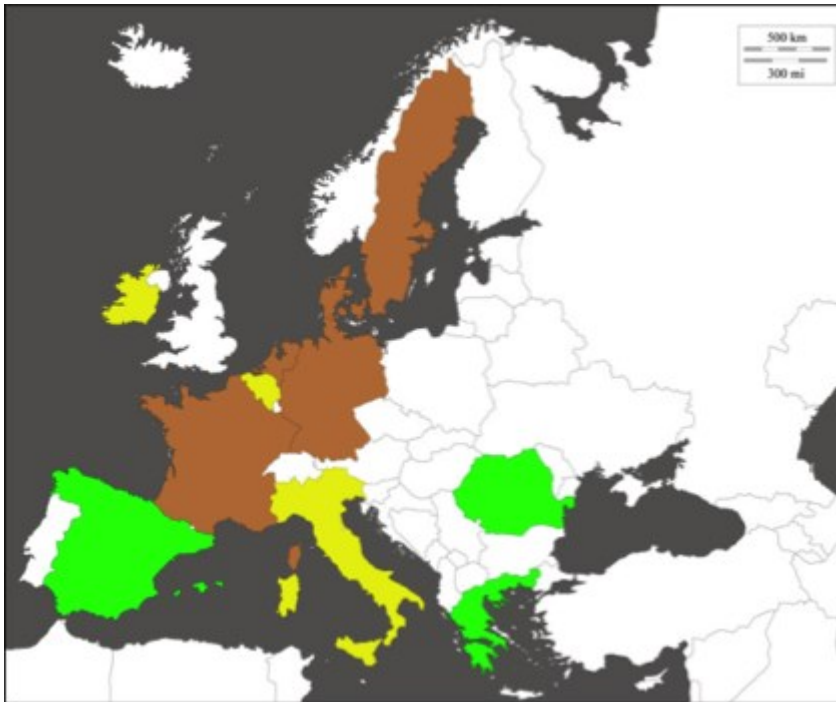
More specific...

- Regeocities project: transfer best practices
 - Recommendations
 - Tools
 - Training
- Local authorities:
 - Implementation legal framework
 - Facilitate and promote SGE



Who will do that?

- 13 partners in 11 countries



Consortium



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What did we do?

- Analyses of current legal framework
 - Report per country
 - Barriers and best practices
- Recommendations for legal framework
 - Tool: database and handbook

Why a database?

- Registration of SGE systems
 - total number of systems & total installed capacity
 - the location and dimensions of each system
 - the technical details of each system

Why this information?

- urban and spatial planning
- energy savings and CO₂ emission reductions
(local, regional, national, European)

Who will provide information?

- Owner of the SGE system, as a part of the permit procedure
- Role local authorities:
 - Collect necessary information
 - Add/modify database if necessary
 - Introduction database & permit procedure = promotion of SGE

How does it look?

INSTALLATIONS REGISTER

A. DATA OWNER / APPLICANT

A.1. Owner's Name

A.2. Address (street/nr./postal code)

A.3. City

A.4. Telephone

A.5. E-mail

B. SYSTEM LOCATION

B.1. Address (street/nr./postal code)

B.2. City / Municipality

B.3. Municipal unit

B.4. Region / Province

B.5. Coordinates⁽¹⁾ (x, y, or country units) *

B.6. Cadastral unit

B.7. Map location to be included *

C. BUILDING INFORMATION

C.1. Building Type / Year of construction

C.2. Floor area building

C.3. Heat demand per year % SGE

C.4. Cooling demand per year % SGE

C.5. Hot water demand per year % SGE

D. SHALLOW GEOTHERMAL ENERGY SYSTEM INFORMATION

D.1. Date of 1st operation

D.2. System type

D.3. System layout

NOTES

* Fields Required

⁽¹⁾ Referred to the central point of the installation

E. CLOSED LOOP SYSTEM

E.1. Loop type

E.2. Installed capacity of closed loop system kW

E.3. Number of loops

E.4. Borehole loops: total length m

E.5. Borehole loops: max depth m

E.6. Average spacing between boreholes m

E.7. Type antifreeze & conc. in boreholes g/m³

E.8. TRT value (lambda and resistivity) W/m/K and (m²K)/W

F. OPEN LOOP SYSTEM

F.1. Number of wells

F.2. Depth of wells (max) m

F.3. Flow rate m³/h

F.4. Thermal impact m

F.5. Abstracted water will be:

G. HEAT PUMPS

G.1. Number of heat pumps

G.2. Installed capacity (heating/cooling) kW

G.3. COP/SCOP/SPF_H2

G.4. Design system heat temp. °C

G.5. Design system cooling temp. °C

H. REQUIRED PERMITS

Type	Reference
H.1.	
H.2.	
H.3.	
H.4.	
H.5.	

Thank you for your attention

For more info visit
www.regeocities.eu



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