

*Best practices to accelerate investment  
in geothermal projects in Europe*

**State of the art for the Walloon Region**

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BUILDING ENGINEERING & ENERGY

# 3 areas of intervention

1

**Estimation of the geothermal energy potential in the Walloon Region**

2

**Ongoing legislative work to promote geothermal energy**

3

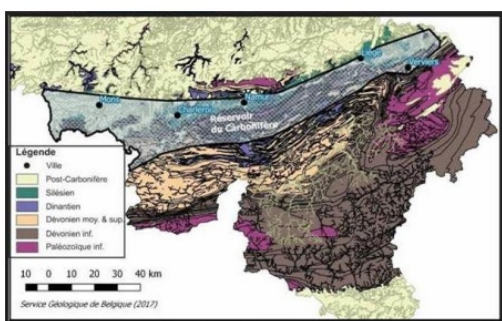
**Call of projects & identification of pilot projects**



# Launch of several studies to estimate the geothermal energy potential in the Walloon Region

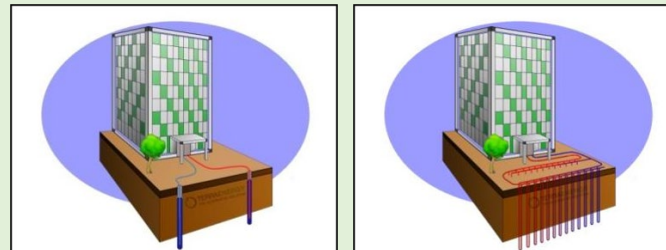
## Deep geothermal energy

- **Identification of relevant areas** considering criteria like energy consumption, population density and localization
- **Economical assessment** : CAPEX, OPEX, Net present value



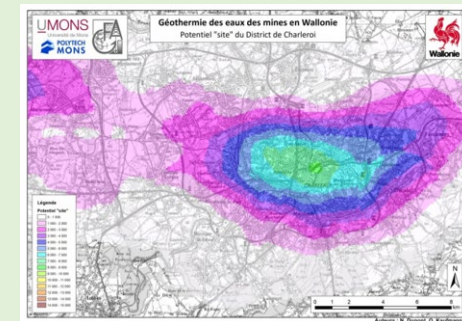
## Shallow geothermal energy (closed & open systems)

- **Data collection** : subsoil and energy consumption data
- **Estimation of the technical & economic potential**
- **Mapping exercise**
- **Proposition of an Action Plan**



## Geothermal potential from mines

- **Identification of favorable sites for geothermal mining**
- **Estimation of technical potential**
- **Cost-benefit analysis**



# Ongoing legislative work to promote geothermal energy

## Heat Strategy

### Measures to :

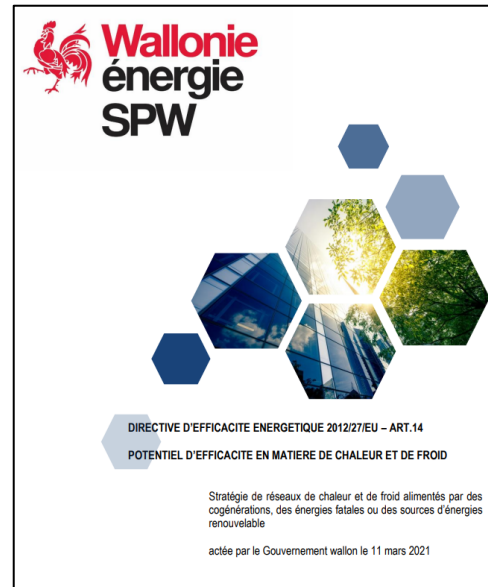
- Promote (notably) the development of geothermal energy
- Identify of suitable areas for the development of geothermal energy projects
- Reduce the risk of deep geothermal energy
- Modify the permitting system for the open system
- ...

## Review of the financial support

- Review of the investment aid rate to promote renewable energy (ongoing)
- Taking into account CAPEX & OPEX
- Definition of a level of profitability / sector

## Decree on the Underground

- Actions plan for the management of the underground resource
- Data collection
- Obligations to report the exploitation of the resource
- ...



# Call projects

## Call for projects for Shallow geothermal energy

- In the framework of the recovery plan & Kyoto fund
- Walloon budget of € 7,5 million
- Application for closed systems, open systems, mining geothermal energy

## Geothermal mining

- Identification of pilot projects regarding the development of geothermal mining
- 3 main cities are concerned : Charleroi, Mons and Liège.



**Thank you for your attention !**

