Webinar
8 June 2022
10:00 – 11:30 (CEST)

EGEC Geothermal Market Report 2021
2021 Geothermal Market Report

2021 EGEC GEOTHERMAL MARKET REPORT
Full Report

2021 EGEC GEOTHERMAL MARKET REPORT
Annexes

2021 EGEC GEOTHERMAL MARKET REPORT
Key Findings

Philippe Dumas, Secretary General
13.06.2022
Agenda of today

- Introduction, Philippe Dumas, EGEC Secretary-General
- The electricity market development, Philippe Dumas, EGEC Secretary-General
- Case study: Plants in Belgium – Ben Laenen, VITO
- The heating and cooling market development, Sanjeev Kumar, EGEC head of Policy
- Outlook on the global market and digitalization – Thomas Garabetian, EGEC Senior policy officer
- Q&A

- Check out the Key Findings of the Market Report.
Some key figures

- 142 Geothermal electricity plants, with 6 new in 2021: 3,4 Gwe installed and more than 19 TWh produced

- 364 geothermal DH systems in operation, with 14 new in 2021: 5,6 GWth capacity

- More than 2 million geothermal heat pumps in Europe at the end of 2021
Covering all Geothermal Energy technologies

Depth: **5-500 m**
Average temperature between 10-150 m:
2 °C - 21 °C

Depth: **500m - 6 km**
Average temperature:
40 °C - 200 °C

Depth: **2 km - 6 km**
Temperature more than:
80 °C - 400 °C
Geothermal electricity production
The demand in Europe is stagnating. An issue for the power decarbonization and the demand for new geothermal powerplants!
Decarbonisation of the power sector

Gross electricity production by fuel, EU, 2000-2019

- coal
- other fossil fuels
- nuclear
- renewables

Sources: Eurostat (online data code: eneg_b100_v01m).
Electricity prices

Fig. 8 | Electricity prices in selected European countries, 2011 - 2021

Source: Bruegel based on Bloomberg OTC one-year forward power baseload indices
Natural Gas price

Source: Bruegel based on Bloomberg day-ahead TIF
Existing plants (size = MWe installed)  Planned or in development (size = number of projects)
2021

4 new plants in Turkey
2 new plants in Germany

Number of Geothermal power plants per country
and production in selected countries
Geothermal power plant resource temperature in selected countries

Average size of plant per country
Turbines

![Bar chart showing the MWe of various turbine manufacturers including Ormat, Ansaldo Tosi, Exergy, Atlas Copco, and others. The chart indicates the number of turbines installed before 2010, installed since 2010, and installed in 2021.]
Next events in June

- **9 - 10 June**, Les Journées de la géothermie 2022 in Aix les bains - France
- **13 June**, Defining the Vision for Geothermal Energy in Northern Ireland, Belfast
- **14 - 15 June**, European Shallow Geothermal Days 2022 in Barcelona, Spain
- **14 - 15 June**, Les GEODAYS 2022 in France, Pau
- **16 June**, International Conference on Geothermal Energy, Arbavere- Estonia
- **21 - 22 June**, SPARK event in UK, London
- **23 June**, EGEC AGM 2022 – online with discussion on skills for shallow and deep geothermal: gaps, needs, and solutions
- **27, 28, 30 June** - 3 online workshops on the Innovation Fund: preparation for the 3rd call (RES, HP and storage)
- **28 June**, 10-12, RHC-Platform geothermal panel: launch of the new working groups and B2B webmeeting
2022 - #GeothermalDecade

This decade will be #Geothermal!

- Exponential growth by 2030
- New and diverse applications for geothermal energy

- Geothermal energy is bound to become the **bedrock of energy transition.** This will be the #GeothermalDecade.