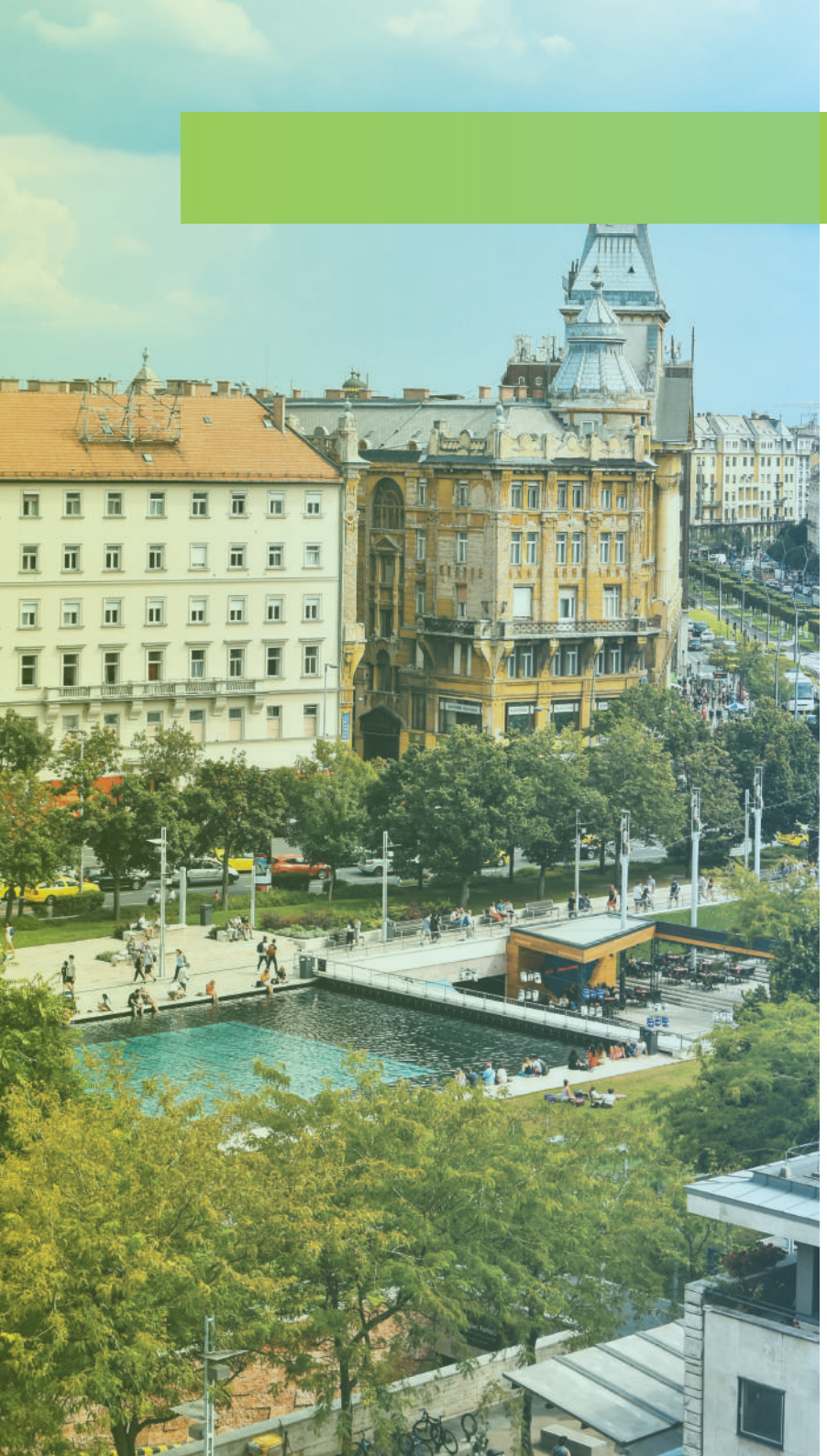
GEOENVI

# Tackling environmental concerns to deploy geothermal energy in Europe



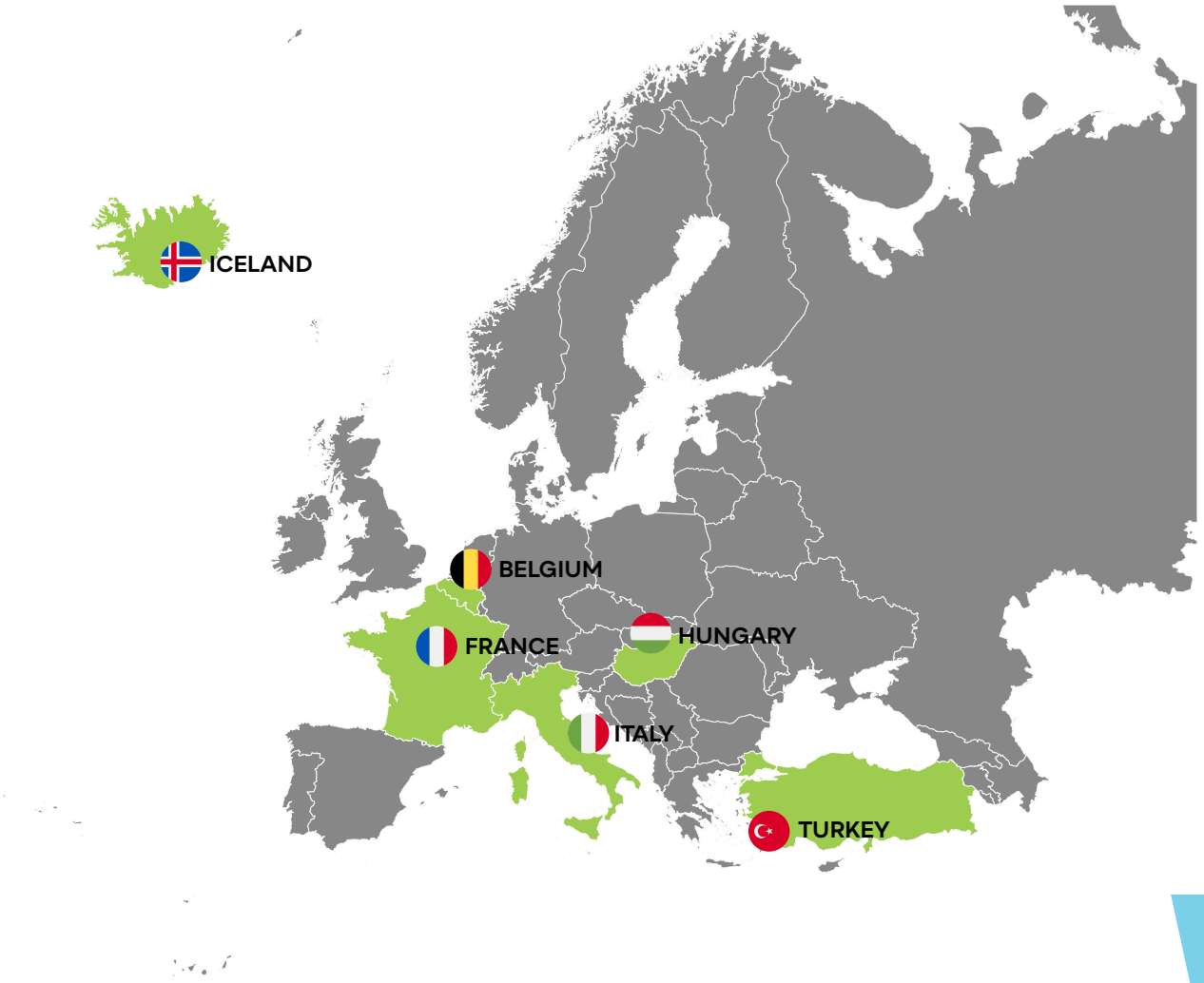
**Deep geothermal energy has a great potential** in many European countries. However, the advantages of using this technology for power production and heating & cooling are not widely known.

Recently, deep geothermal energy production in some regions has been confronted with a **negative perception**, particularly in terms of environmental performance. This could **hamper its market uptake**.

The GEOENVI project answers these concerns so that geothermal energy **can play a crucial role in the future energy transition**.

The project, coordinated by EGEC, started in November 2018 for a duration of 30 months (April 2021).

# why




The GEOENVI project focuses on six key countries with **varying deep geothermal potential, markets maturity, and geological settings**: France, Italy, Belgium, Iceland, Turkey and Hungary.

These countries have been selected because they have a potential for deep geothermal and there are plants already operating or under development.

The case studies in these countries have characteristics that allow them to be replicated all over Europe.

# where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The GEOENVI project demonstrates the sustainability of deep geothermal energy through:

- **Assessing the environmental impacts and risks** of geothermal projects operational or under development in Europe;
- Elaborating **novel simplified LCA models** for project developers to assess environmental impacts;
- Proposing **recommendations to the decision-makers** on harmonised European environmental regulations;
- **Communicating** on the environmental aspects of geothermal energy in a comprehensive and objective way, also thanks to the **#ThisWeeksGoodNews media campaign**.

# how

# This Week's Good News

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Follow our #GEOENVI #ThisWeeksGoodNews to hear about how geothermal energy and its technological breakthroughs are contributing to a cleaner environment and a better society.


Environmental concerns are a major barrier for the development of the deep geothermal market. Life Cycle Assessment (LCA) is the best answer to assess potential environmental impacts. But the methods to perform LCA can vary widely, take a long time and are not tailored to energy systems.

The GEOENVI research project proposes **guidelines to harmonize current LCA practices applied to geothermal plants** in different geological settings throughout their lifetime. GEOENVI has also developed **newly integrated simplified models** for non-LCA experts to assess the potential environmental impacts of geothermal energy systems.

Visit https://www.geoenvi.eu/lca-for-geothermal/

# LCA


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CSGI


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The GEOENVI project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 818242

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