

Deliverable D4.7

GEO4CIVHIC DSS for geothermal retrofit engine

WP4

Grant Agreement number	792355
Project acronym	GEO4CIVHIC
Project full title	Most Easy, Efficient and Low Cost Geothermal Systems for Retrofitting Civil and Historical Buildings
Due date of deliverable	30/09/2021 (M42)
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Dissemination Level

PU	Public	
CO	Confidential, only for members of the consortium (including the Commission Services)	X
CI	Classified, as referred to in Commission Decision 2001/844/EC	

Publishable summary

The D4.7 "GEO4CIVHIC DSS for geothermal retrofit engine" is a confidential document delivered in the context of WP4, Task 4.3: "DSS implementation for civil and historical buildings geothermal retrofit" with regard to the implementation of the calculation engine of the Decision Support System (DSS) that will assist the users in the quick selection and pre-engineering of the most suitable geothermal technologies for their installations.

The objective of the document is to summarise the implemented final architecture of the DSS for geothermal retrofit and to describe the calculation that are performed by its engine.

The document presents the final overall system architecture and its main components which are articulated around three entities: a web interface to interact with the user, a set of databases to store information related to the calculations and the DSS engine where the calculations are performed. The document then focused on detailing the different calculation steps that are performed by the back-end engine. Those are organised around an input and output modules and in between calculations are performed with respect with climate, energy demand, geothermal system selection, and geothermal calculations.