



Deliverable D7.6

Standards overview for each of the case study areas

WP7

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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	

Document History

The Deliverable D7.6 “Standards overview for each of the case study areas” is a confidential document delivered in the context of WP7 Task 7.5 “Standards, Overview and Recommendations” aimed at categorizing available standards in Europe related to ground source heat pump systems and suggesting ways to introduce the Cheap-GSHPs technology into them.

This report is divided in two parts including two main sections related to civil buildings and to historical buildings or buildings listed as cultural heritage.

In section A of this report, existing standards in force in European Union member states concerning water source heat pumps, water source heat pump systems and their components, ground heat exchangers, drilling equipment and associated materials are identified and summarized. They include international standards adopted by EU member states, as well as national standards and guidelines issued in Germany, France, Italy, Austria, United Kingdom and Spain. After reviewing these standards, modifications are suggested, in order to support successful commercialisation and deployment of the innovations delivered by the Cheap-GSHPs project, which are the helix and the coaxial borehole heat exchangers, the new drilling tools, the coaxial collector nozzles and the high temperature heat pump.

Section B is dedicated to the application of the geothermal technologies in historical buildings and buildings with cultural functions. In this field there are no specific EU standards to be adopted. The applicability of technological solutions depending on the different national normative frameworks related to the conservation of such buildings, they have to study case by case. These national normative are mandatory for the building listed as cultural heritage, in historical building the normative considered as tips. The only EU standard, under approval, CEN/TC 346/WG 8 - Energy efficiency of historic buildings - prEN 16883: “Conservation of cultural heritage - Guidelines for improving the energy performance of historic buildings”, define a procedure to facilitate the best decision in each individual case, without define general measures. In this standard the procedure to identify the need for energy improvements and appropriate solutions that match the requirements for the historical building conservation is provided. The final decision of the energy improvement in the historical building is made by the qualified authorities.