

Deliverable D2.1

Actual GSHE installation with reference costs and performances

WP2

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Project full title Cheap and Efficient Application of reliable Ground Source Heat Exchangers and Pumps

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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 D.2.1 "Actual GSHE installation with reference costs and performances" is a confidential document delivered in the context of WP2 "Helicoidal GSHE and drilling machine developments. The topic of task 2.1 is the "Evaluation of the most practicable installation options and costs taking into account the different local conditions". First a comparison of the actual geothermal systems used for near-surface geothermal applications up to 50 meter depth is made. Advantages and disadvantages are compared regarding the space and efficiency of the heating and cooling demands of the building. The different geothermal systems can be installed by using various technologies with their respective installation costs. For this reason this deliverable contains two questionnaire templates. The first one compares a representative geothermal installation under local conditions for a residential house. Due to the major outcomes (→ high drilling costs) a second template was circulated among the participating partners for a better understanding of the cost structure of the drilling cost. This report will be the basis for the intended cost reductions which should be accomplished within the on-going tasks T.2.2.; T.2.3; T.2.4. Task 2.5 will compare the different combinations and selection of combinations for the demo sites and it will demonstrate the progress within this work package.