

Deliverable D 6.5

Evaluation of performance in demonstration site No 5: University College Dublin, Ireland

WP6

Grant Agreement number	657982
Project acronym	Cheap-GSHPs
Project full title	Cheap and Efficient Application of reliable Ground Source Heat Exchangers and Pumps
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Lead beneficiary	SLR
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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 report on the evaluation of performance in demonstration site No 5 at University College Dublin, in Ireland is confidential document delivered in the context of WP6 and Task 6.5.

The main objective of this task was to install a helicoidal and coaxial heat exchanger using the Cheap-GSHPs drilling machine with conventional drilling technologies.

The case study site location provided an opportunity to retrofit and connect the new BHE technologies to an existing heat pump installed in 2010. The system used for space heating of an existing office building on the campus of University College Dublin.

The report presents the details of the planning, design and installation of the coaxial and helicoidal heat exchangers as well as the construction, testing and monitoring phase of the system.

The outcomes of the construction and operational phase of the completion of the new collector have been included as part of the work in WP6 of Task 6.7 and in WP7 as part of the LCA (Task 7.4) and the development of the recommendations in Task 7.8.