

Accepted Manuscript

Title: Long-term analysis of two GSHP systems using validated numerical models and proposals to optimize the operating parameters

Author: Antonio Capozza Angelo Zarrella Michele De Carli



PII: S0378-7788(15)00099-7
DOI: <http://dx.doi.org/doi:10.1016/j.enbuild.2015.02.005>
Reference: ENB 5678

To appear in: *ENB*

Received date: 29-10-2014
Revised date: 19-1-2015
Accepted date: 2-2-2015

Please cite this article as: A. Capozza, A. Zarrella, M. De Carli, Long-term analysis of two GSHP systems using validated numerical models and proposals to optimize the operating parameters, *Energy and Buildings* (2015), <http://dx.doi.org/10.1016/j.enbuild.2015.02.005>

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Highlights

- The study focuses on the long-term ground temperature drift of borefields.
- Multi-year simulations of two Italian GSHP systems are carried out.
- The effect of the imbalance of the ground heat load profile is investigated.
- An improvement in performance follows when the ground load is rebalanced.
- An accurate evaluation of the heat loads is important with GSHP systems.

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