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

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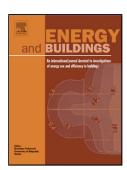
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# ACCEPTED MANUSCRIPT

### 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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