



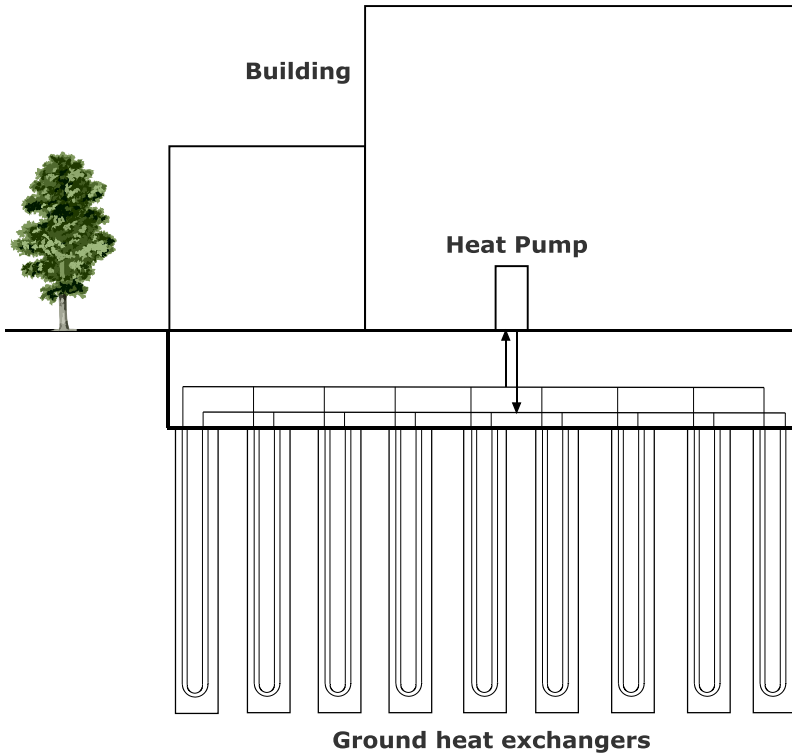
Work Package 2.5

Integrated cooling, heating and storage

Research student: A. Revesz

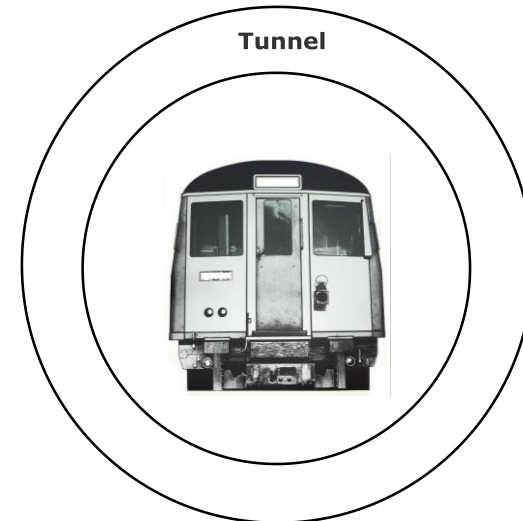
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Overall project aim



Investigate the thermal interaction of ground heat exchangers with the London Underground network.

Soil

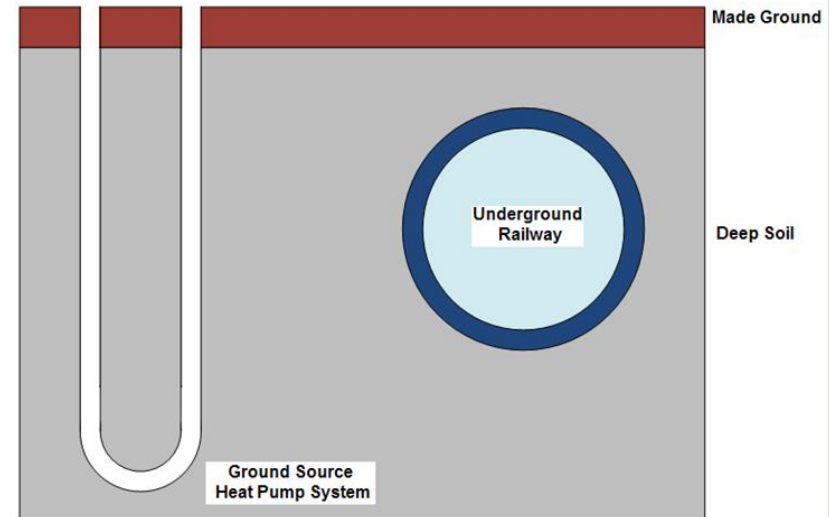


Deliverables

- List of parameters which influences the thermal interaction between the two schemes.
- Develop a model that will
 - Determine the regions of interactions.
 - Quantify the scale of the interactions.

Potential use of the outcomes

- The outcomes may enable...
 - To inform decision makers about the interaction of GSHPs with the LU network.
 - The formation of potential policy.
 - Various design options to be considered that may enhance efficiency of heat pumps.
 - To provide detailed data for stakeholders who have an interest in utilising the waste heat from the tunnel environment.



Key progress to date

Time plan development

- Overall schedule to carry out the project has been set by listing a number of different stages with a given time frame. The project currently under the background research stage.

Background research

- Subject areas required to investigate were listed and exploration of topics has started.

Induction with London Underground

- In order to familiarize with the underground railway environment and the engineering challenges involved, industrial induction with London Underground has been agreed, which is currently under progress.

