Full-scale instrumented residential ground source heat pump systems in Melbourne, Australia

Research Objectives

To evaluate ground source heat pump (GSHP) systems performance under actual operating conditions and geologies typically encountered in Melbourne, Australia. See Fig. 1 & Fig. 2

Selected results

• GSHP systems operating under Melbourne’s climatic conditions have comparable efficiency to other GSHP systems around the world

• However, we observe that the usage of these systems is much lower than the expected usage suggested by design manuals (bin method). Fig 3 shows that the usage in one of the properties is minimal for a 9 kW system

• One reason is that Melbourne’s temperate climate allow these systems to be switched off for a significant part of the year

Publication


Acknowledgement

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More Information

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