

GEO-EXCHANGE:

REDUCING ENERGY USE & CARBON IMPACT

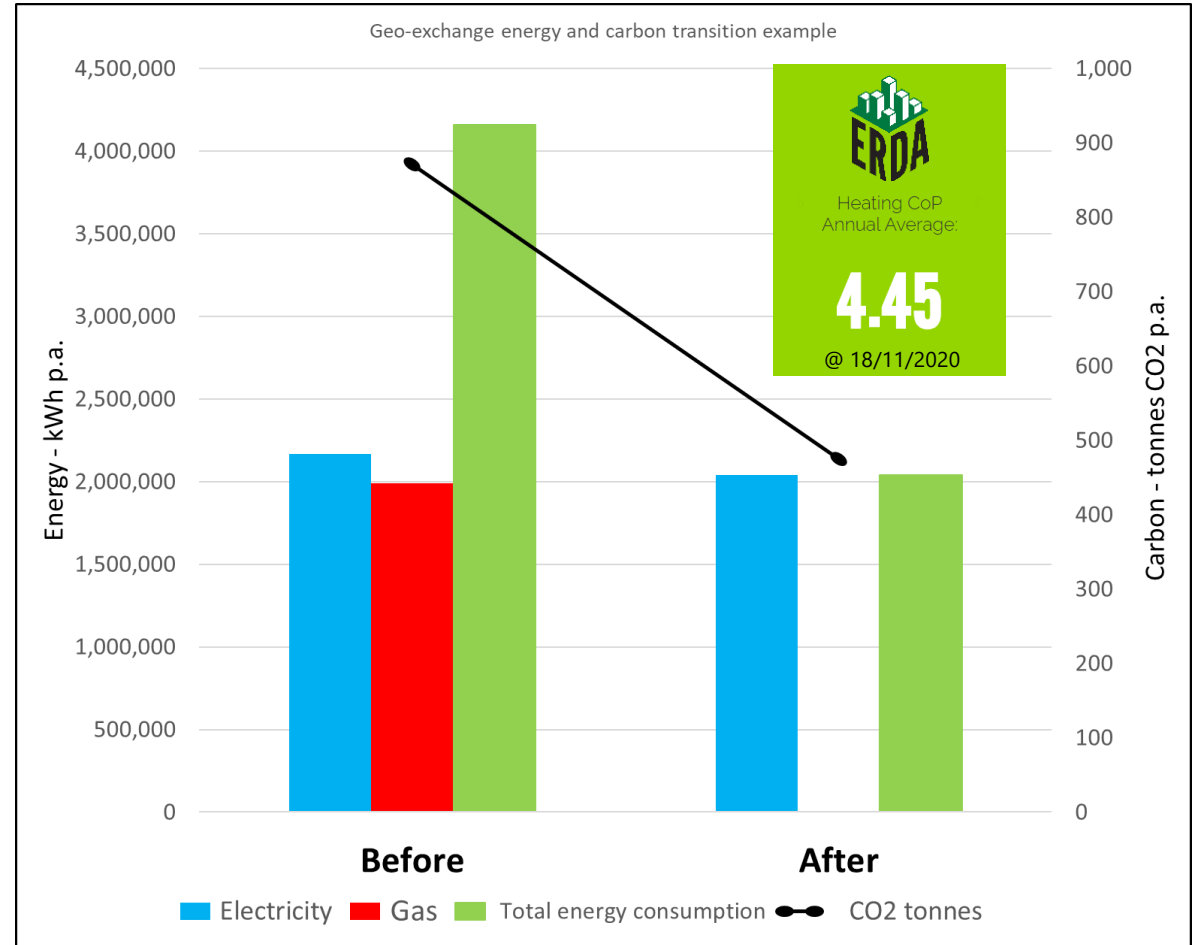
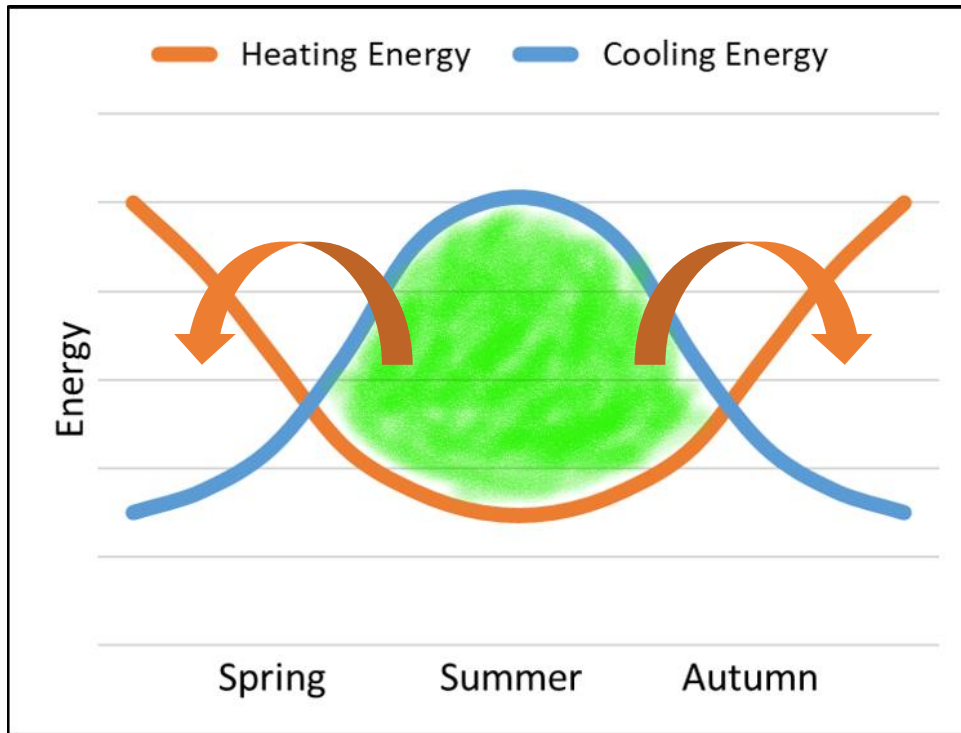
Black Mountain Developments is a company which creates dedicated solar generation and implements very low carbon heating and cooling systems using heat pumps and geo-exchange technology.

I will talk about the levels of energy saving and carbon reduction which can be achieved by using the earth as both a source of renewable energy and as battery for storing captured waste heat.

I will talk also about an innovative approach to building closed-loop, ground-coupled heat pump systems in areas, like many parts of London, where space is limited.

Working with energy balance

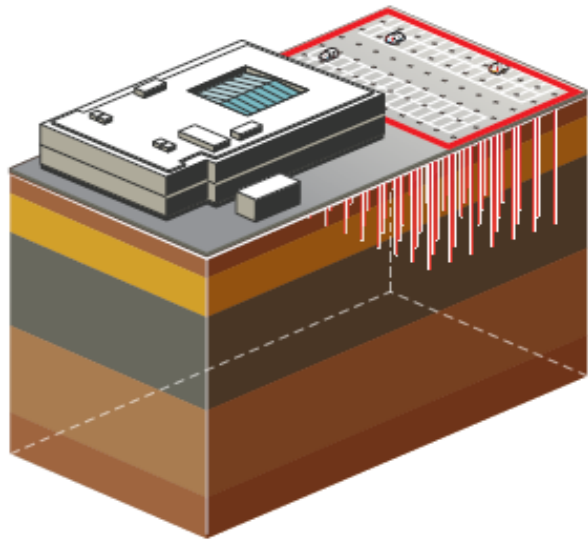
Spare energy can be stored in the ground for winter heating.



Erda | deep Co-axial inclined boreholes

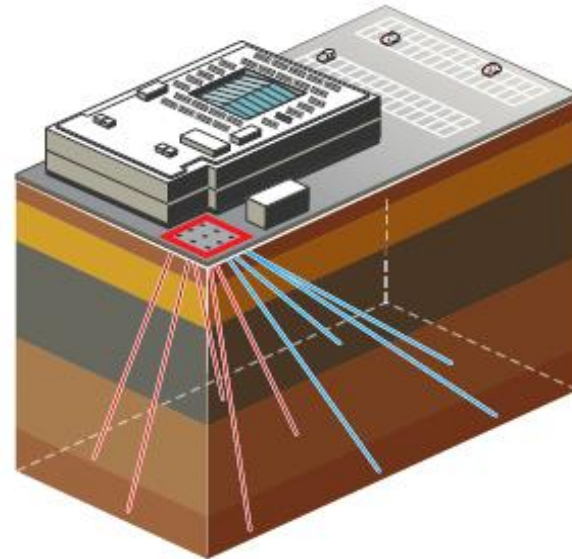
Traditional U-tube

vs. Erda | deep flexibility



Larger surface footprint

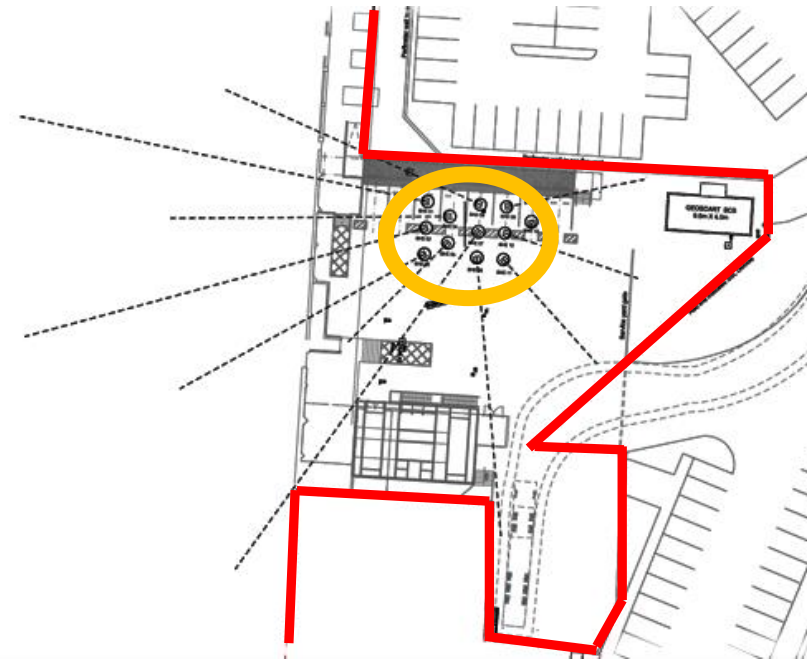
Not always possible,
not always flexible



**Small surface
footprint**

**More efficient,
higher capacity per
borehole**

Accurate drilling, extending under the building, remaining within property boundary



Thank you for your time

Magnus Henderson

Development Manager

magnus.henderson@blackmountaindevelopments.com

07764 359 866

www.blackmountaindevelopments.com

www.erdaenergy.com