

#### **Alternative Heat**

- alternativeHEAT
  - Commercial Energy Solutions

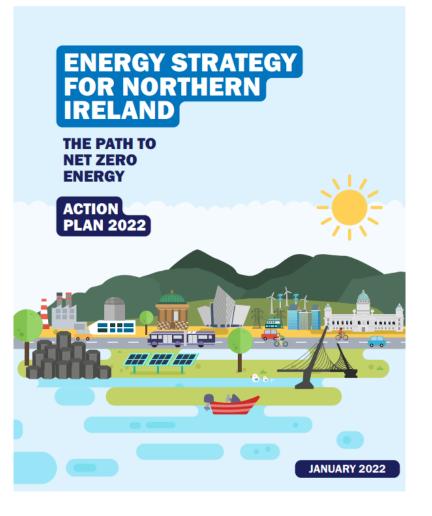
- > Est 2005
- > Family Run Business
- Currently employ circa 270Nr heads
- ➤ 19 Years experience in Renewables & Decarbonisation
- ➤ Inhouse Design & Build teams
- ➤ Over 500Nr heat pump solutions in operation





## Policy for change!







#### Public support -

#### N.Ireland -

Energy Efficiency Capital grant launched NI May 24 (5 yr scheme)

#### **Republic of Ireland -**

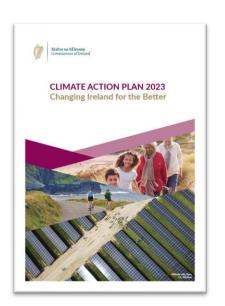
Pathfinder scheme launched in ROI (2 yr scheme)

#### Scotland -

Salix PSDS Introduced to Scotland Feb 24 (5 yr scheme)

#### **England & Wales -**

Salix PSDS fund in England & Wales extended 2028







#### Route to Net Zero

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Heat Pumps
Our experience

**Client:** Harvey Group

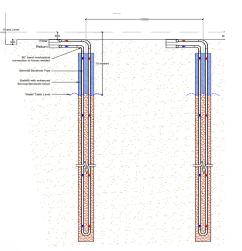
Site: Girdwood Community Hub

**Project:** - 180kW Total Installed GSHP capacity

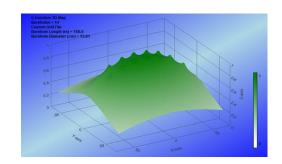
- 2,000m vertical collector backfilled with bentonite grout

- 1,200M2 horizontal ground collector combined with bore hole array





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**Client:** Education Authority

Site: Eglinton School Derry / London Derry

**Project:** - 220kW Total Installed GSHP capacity

- 1800m horizontal ground collector pipework

- Design included a reverse return configuration to balance temperatures and enhance the seasonal CoPs of the system





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**Client:** Farrans Construction

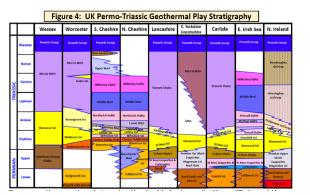
Site: North West Transport Hub

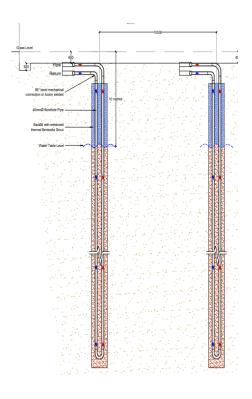
**Project:** - 140kW Total Installed GSHP capacity

- 3,300m vertical collector backfilled with bentonite grout

- Full GLD model generated and ground temperatures modelled











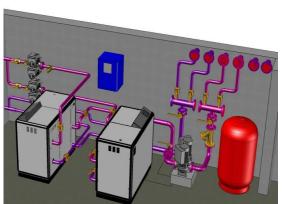
**Client:** Scottish Council of Independent Schools

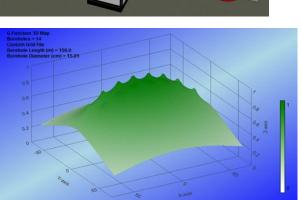
Site: Fettes College

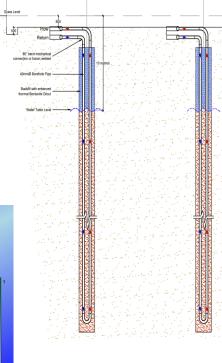
**Project:** - 180kW Total Installed GSHP capacity

- Bore hole array with 4200m total collector pipework

- System design optimised via GLD software modelling









## 18MW District Heating Network



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**Client:** Grangegorman Development Agency

Site: Technical University Dublin

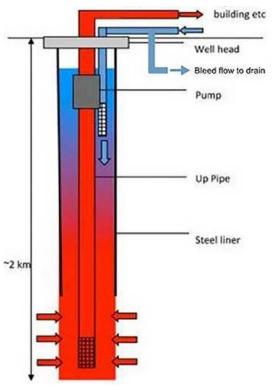
**Project:** - 15MW Prefabricated Energy Centre

- Site wide MTHW district heating system

- 3MW Deep Geothermal boreholes to provide

80 Degree flow temp at 2.4km depth











## Zero Carbon ASHP Projects

**Client:** Yorkshire Council schemes

Systems: 69Nr. Heat pump systems installed

**Project:** - 7.8 MW Total Installed capacity

- Upgrade works to existing building fabric and BMS systems

- Design and deployment of bespoke remote monitoring systems

- End uses include, Primary & Secondary Schools, Town Halls, Leisure Centres,

Museums, Sports Centres, Care Homes, Council Offices.





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Client: London Council scheme

Systems: 38Nr ASHPs & 10Nr WSHPs installed into

existing buildings

Scope: Multiple building heating upgrades inc

replacement of gas boilers for stand

alone heat pump systems









Client: Fife Council

Systems: 18Nr ASHPs Installed into existing buildings

Scope: Design & Install hybrid heat pump solutions

into a range of existing Primary, Secondary

schools and Leisure Centres.



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Client: Glasgow City Council

Site: Hillpark Drive

**Project:** - 4MW Hybrid ASHP & Gas Prefabricated Energy Centre

- Site wide BMS controls strategy optimisation

- End use 350Nr social & private residential propertys





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Client: North Warwickshire and South Leicestershire

College

Systems: 1Mw ASHP system c/w building fabric upgrades

Scope: The decarbonisation project comprised the

replacement of gas fire boilers with a 1Mw ASHP,

upgrade of the district heat network, building

fabric upgrades, upgrades to the heat emitters and

installation of solar PV.





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Client: Royal Botanic Gardens

Systems: Kew Gardens London

Scope: We are appointed as Principal Contractor

delivering site wide decarbonisation measures to include WSHP EC, ASHP,

Solar PV and Fabric Upgrades.









# Thank you for listening

