Decarbonisation - Our experience

Alternative Heat

- ≻ 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!



ENERGY STRATEGY FOR NORTHERN IRELAND

THE PATH TO NET ZERO ENERGY

ACTION

PLAN 2022





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







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Route to Net Zero

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Heat Pumps Our experience

Harvey Group **Client:**

- Girdwood Community Hub Site:
- 180kW Total Installed GSHP capacity **Project:**
 - 2,000m vertical collector backfilled with bentonite grout
 - 1,200M2 horizontal ground collector combined with bore hole array





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ea Education Authority

- 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





- 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









- Scottish Council of Independent Schools **Client:**
- Fettes College Site:
- 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

- 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.









- 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











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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.









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









- 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.





- 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.







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Thank you for listening

