It can be overwhelming when trying to decide which technology is suitable for a project. We provide impartial expert advice, with onsite technical surveys to ascertain the practical and economic viability of domestic & commercial energy projects.

Our goal is to ensure your system is specified and installed with the right technology for the right application. Our unique expertise and experience allows us to select equipment based on key factors; value for money, life cycle costs, performance, reliability and warranty.

We offer a range of bespoke services to meet your requirements from a simple heat loss calculation to a turnkey installation package.
Our standard MCS heat pump package provides you with a bespoke system design, supply & commissioning of the equipment and certification for the RHI. Your contractor is responsible for installing the supplied equipment and providing all additional materials to complete the installation to MIS3005 standards & BS EN 12831.

We endeavour to provide a comprehensive equipment and support package to ensure your installation runs smoothly and complies with manufacture & industry standards.

How does it work?

1. Contact our Technical team
   Discuss your project with free expert advice on suitable energy solutions

2. Site survey & design
   Technical site survey with an MIS 3005 compliant design & quotation for your heat pump package

3. Delivery of equipment
   Place your order and we deliver the heat pump equipment & accessories directly to site

4. Your contractor
   Your contractor installs the supplied heat pump equipment using our technical manuals and schematics

5. Commissioning
   We commission the system, with end user handover & certification for MCS and Building Control

6. RHI Application
   Apply for the Renewable Heat Incentive with quarterly payments over 7 years
What is included in the package?

- Site survey & feasibility study
- Supply of heat pump, accessories, DHW cylinder & buffer tank (if required)
- Heat loss calculations in accordance with MIS3005 (MCS standard for heat pumps)
- Performance estimate and cost analysis
- Indemnified design & specification
- Ground array design (GSHP only)
- Emitter design (radiators, under floor heating) - Upon request
- DNO notification (Retrofit ONLY)
- Electrical & mechanical schematics
- Manufacturer installation manuals
- EGP installation & best practice guides
- Site commissioning by an EGP engineer
- MCS Compliance certificate
- MCS Certificate
- HIES Workmanship warranty
- Building Control notification certificate
- MCS end-user handover pack
- Technical support (design & installation)

What is not included in the package?

- Installation of the quoted heat pump equipment
- Planning permission application
- DNO application (New build only)
- Water supply and discharge licenses
- Additional anti vibration mounts for plant equipment
- Additional circulation pumps (after buffer tank, secondary DHW, CWS booster)
- Pipe, fittings, clips or insulation
- Electrical switches, cables or containment
- Refrigeration pipe work (Vaillant SPLIT ONLY)
- Supply or setting up\commissioning of 3rd party heating & DHW controls
- A valid Energy Performance Certificate (EPC)
The performance of Microgeneration energy systems is impossible to predict with certainty due to the variability of the climate and its subsequent effect on both supply and demand. Estimates and sizing guidance provided within this proposal are based upon the best available information but are given and provided as guidance only and should not be considered as a guarantee of performance or suitability.

Specific site, location, heat loss calculations and surveys should be carried out to confirm the suitability and capacity of any equipment to be used. Taking into account the method of transfer and distribution in addition to the actual required energy demand.

Please note that planning and building permissions may be necessary and obtained prior to the commencement of any works.

The indicative figures used to illustrate any possible reduction in fuel and operating costs and/or reductions in CO2 emissions within this proposal may not be representative of any actual achievable reductions in emissions of CO2 and cost savings due to the variations in the efficiency and performance of equipment and components.

Any potential savings with respect to cost or carbon emissions must be calculated specifically for each project. Eco Green Partners Ltd, are not able to and will not take any responsibility for the accuracy of any information and guidance provided within this proposal.

The proposed system will be certified for the application of the Domestic RHI for ground & air source heat pumps.

Once the MCS certificate has been issued, you have 12 months to make your application to Ofgem. Applications after this period will not be accepted.

An EPC is required (max 24 months old) to validate your RHI application. The energy rating (A-F) will not affect your eligibility.

**Building illegibility criteria:**

- 300mm loft insulation, where possible. Flat and vaulted roofs are exempt.
- Cavity walls must be filled. Exemptions must be certified by a structural engineer.
- Planning permission granted (listed building, conservation area) or PDR.
Always the right choice

Reliability, world leading performance, all combined with the most comprehensive warranty on the market. Peace of mind guaranteed and its so quiet you won't even know its on.

High performance
The aroTHERM plus heat pump has been designed to deliver the very best performance with low running costs, making it suitable for radiators as well as underfloor heating. With a flow temperature of up to 75°C, the aroTHERM plus can deliver more usable hot water with high hot water comfort levels and removes the need for direct electric immersion to sterilise the water, protecting from legionella.

High energy efficiency
With a SCOP of up to 4.88, the aroTHERM plus is extremely energy efficient, enabling high energy savings against certain fossil fuels. The aroTHERM plus can also be combined with photovoltaic systems and integrated into smart power grids (SG-ready), so your customers can enjoy the benefits of variable electricity tariffs.

Super quiet
With sound power as low as 54 dB(A) for easier planning and siting, the aroTHERM plus is suitable for use in densely built-up terraced housing estates.

Natural refrigerant
Already fulfilling the next NZEB requirements, the aroTHERM plus uses monobloc technology with a hermetically sealed refrigerant circuit using the natural refrigerant, R290, to deliver the one of the lowest GWP of 3.

Why R290?
R290 is a natural refrigerant with a very low GWP* of three. This offers the following advantages:
• future-proof, as not affected by the F-Gas Regulation
• higher flow temperature of up to 75°C
• higher hot water comfort and protection against legionella without electric auxiliary heating
• wider performance envelope with operating temperature ranging between -25°C and +46°C
• Already fulfilling the next NZEB requirements, the aroTHERM plus uses monobloc technology with a hermetically sealed refrigerant circuit using natural refrigerant R290 to deliver the one of the lowest GWP of 3
• Reduced refrigerant charge compared to R410a and R32

Natural refrigerants are already used in many areas of our daily lives, e.g. in refrigerators and heat pump tumble-driers

Model calculation
R290 (aroTHERM plus)
0.6 kg R290 x 3 GWP = 1.8 kg CO₂

15 km journey by car

*Comparison of refrigerant GWP values:

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>GWP</th>
</tr>
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<tbody>
<tr>
<td>CO₂</td>
<td>1</td>
</tr>
<tr>
<td>R290</td>
<td>3</td>
</tr>
<tr>
<td>R32</td>
<td>675</td>
</tr>
<tr>
<td>R410a</td>
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</tr>
</tbody>
</table>
Important Information

- Information provided within this document is for guidance purposes only.

- Manufactures installation manuals & data sheets should be used in conjunction with this document.

- If the installation is to be registered with MCS for the application of the RHI or any other grant, the system must be compliant with MIS3005 standards.

- For technical advice please call; **01275 350085**

Warranty Conditions

If the heat pump system is to be registered under the MCS scheme for the purposes of claiming the Domestic RHI, a 2 year workmanship warranty must be provided by your contractor. The warranty is to cover against installation defects (leaks, air, control issues, electrical faults, noisy pipes, etc).

RECC Assurance Scheme – Consumer Code

As a member of the RECC assurance scheme you can have complete confidence that we adhere to strict guidelines and operate in an ethical manner. The full code is available on request or alternatively at [www.recc.org.uk](http://www.recc.org.uk).