VOR
Value Optimised Retrofit

# Retrofit Assessment

## Getting to know you and your home

The first stage of any Energy Retrofit process is to get a real understanding about your home, how it is used and what might be the best "Energy Efficient Measures" to better performance in both the short and medium term.

**We broadly categorise these Energy Efficiency Measures into five key areas:**

| Basic | Fabric | Ventilation | Heating | Renewables |
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| Installing new thermostats, radiators, etc. | External wall insulation, loft insulation, under floor insulation etc | Upgraded or replacement ventilation. | Replacement boilers, Air Source Heat pumps, etc. | Photovoltaic Cells, Solar Water Heating, etc. |

## The Assessment

To undertake this review, we need to undertake a thorough assessment of your existing home. This focuses on your home's energy and carbon efficiency; it benchmarks your existing energy consumption and carbon emissions and considers your health and well-being through indoor air quality and humidity which is dictated by your homes ventilation and building fabric condition.

| 1 The Energy Assessment | 2 Condition & Ventilation Survey | 3 The Occupancy Assessment |
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| Benchmarking your homes performance in regard to both carbon and energy use. | A detailed assessment of your homes existing design, condition, and operation to help identify the most appropriate Energy Efficient Measures. | Speaking to you to understand how you use your home. This will also include what your goals are regarding your home's energy performance. |

## What we'll be doing

- An appraisal of your home's heritage, architectural features, structure, condition and construction in sufficient detail to establish the main materials, thermal transmittances and moisture properties
- Identifying any constraints imposed by the local planning authority and by the property itself
- Looking for any potential condensation in your home
- Identifying any energy efficiency measures already installed or proposed
- Measurements of your home (including any basements and attics) and of openings (such as windows and doors)
- Identification of the installed building services, their locations, areas they serve and their working order
- An appraisal of your home's occupancy and any special considerations
- Assessing the existing ventilation to ensure there's suitable indoor air quality
- Providing you with an updated energy performance rating (EPC) identifying the current performance of your home. This will be publicly available and is valid for 10 years under current legislation
- An air test of your home identifying how much air enters and exits the property
- An internal thermal imaging survey of your property to check on the continuity of your homes insulation

## What we need from you

- 2 hours out of your day to conduct the assessment
- Access to all rooms, loft, rear gardens, garage, outbuildings, etc. This is to assess the condition of external elevations to your home
- Information about how you use your home and longer term intentions
- Energy bills (or meter readings) from the last 12 months showing heating and electricity consumption to benchmark energy consumption against empirical data