

Energy Efficiency Superheroes (and where to find them)

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Elmhurst Energy

Who we are?

Elmhurst Energy is the industry's leading provider of energy assessment and property professional training, software and accreditation

We bring solutions to our industry

We are future facing

We lead the way



Elmhurst's Core Functions



Training

Qualification and Continuing Professional Development (CPD) courses delivered online, in the classroom or even in your offices.



Accreditation

Accreditation and Competency schemes which are built on quality and deliver unrivalled technical support directly from our experts.



Software

Online and mobile software developed with the end user in mind.

Bespoke solutions and integrations with our services



Why everyone needs
an Energy Efficiency
Superhero



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energy

EXCELLENCE
IN ENERGY
ASSESSMENT



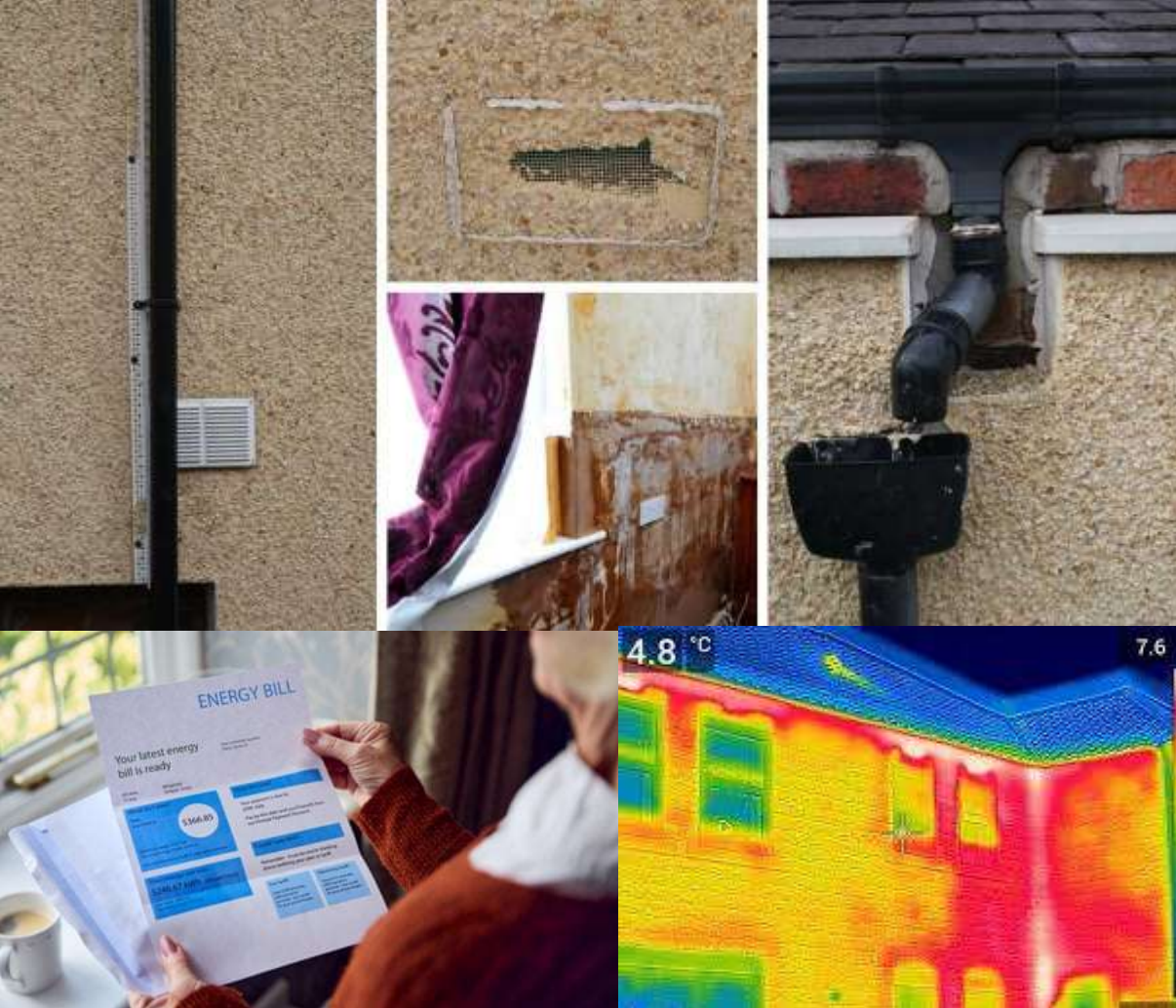
Retrofitted Homes

The Ideal World

Retrofitted Homes – The Ideal World

Imagine a world where;

- Every retrofit project is **high quality, safe and healthy** to the **right standards**, does what the model predicts, and we can **prove** it
- You can trust in the information and reports you are lending against
- The **risk** of underheating, overheating, higher costs to heat and the consequences of underventilation are **removed**
- We get it right, **first time**
- Occupants and homeowners are **sure** that they are getting a quality product
- You get **maximum bang** for your buck – you spend the right amount



Retrofitting Homes

The Reality

Retrofitted Homes – The Reality

The performance gap is real

- PAS 2035 is a good standard, and it is flexible –from single interventions to multi-measure projects on all property types
- It also allows for the use of competent experts to assess to understand the building

However...



Retrofitted Homes – The Reality

We don't fully understand our starting point:

- Methodologies use defaults – fine for modelling, but every home is different
- Cannot understand the reason for current issues and problems
- Over or under specification of measures – under delivery or additional and unnecessary costs

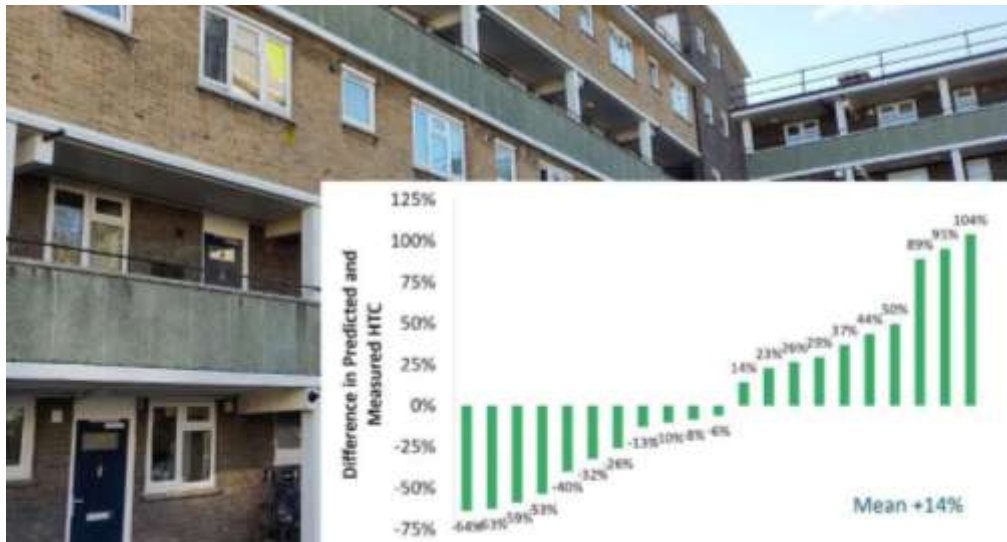


Retrofitted Homes – The Reality

Modelled vs measured

We do need models to quickly create asset ratings which allow for comparison and as a starting point

- Similar to New Build properties, Retrofit projects don't perform as expected
- Cannot measure the real improvement
- Projects are not completed to their initial plan or design
- Materials are substituted, poorly installed or missing



A guessing game?

Andy's Analogy

It is like buying a car based only on
the brochure

BUT

It is like buying a car without asking for
a test drive

EVEN WORSE

It is like buying a car and finding the
wheels have been swapped with
those from a 1964 Mini

Modelled



Measured





Go find that Energy
Efficiency Superhero



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Changes in PAS 2035:2023

PAS 2035:2023 transition

- Now completed the transitional arrangements
- Full implementation for all projects from 31st March 2025

Key Changes

- All professionals in a project where the dwelling is considered **Traditional Construction** will need to hold Level 3 Award in Energy Efficiency for Older and Traditional Buildings qualification
 - Not just for protected buildings
- Retrofit Coordinators will need to **visit properties** to ensure certain measures are installed correctly
 - Based upon the risk and whether measures interact or penetrate other measures
 - Can use Chartered Surveyors or Designers on site

Elmhurst Retrofit and Competency Schemes

Members that do more

Elmhurst is the only scheme with members that can meet PAS 2035 (2023) Requirements

AND

A range of Building Performance Evaluation Competency Schemes



PAS 2035 Roles

These are the roles or and qualifications required. Elmhurst Energy offer training and certification in all cases

- Domestic Energy Assessor
- Retrofit Assessor
- Retrofit Coordinator
- Older and Traditional Building
- Heat Loss Assessor – for heating system sizing*



Competencies offered

Building Performance Competency

Using a range of approved measurement techniques that prove the actual performance of a house

- Airtightness Testing (L1 and L2)
- Background Ventilation Testing
- Ventilation
- Thermography
- Measured Energy Performance Scheme - Smart HTC
- U-Value – to include in-situ u-value (Q4 2025)

Tools that do more

Software Tools

- RdSAP Go
- Occupancy Assessment
- Condition Report Go
- CoAssess – our brand new remote site inspection tool
- Improvement Evaluation Tool
- Floorplan tool integrations
- Integrations to the vast majority of Social Housing Asset Management Software (EPC data)
- Integrations to industry leading Retrofit Packages such as Ecosurv and HomeLife

Benefits to our members and the industry

- Industry leading and recognised tool used by 75% of the industry
- All independent tools for maximum flexibility
- Clients are given flexibility to pick and choose how to best fit these tools around their internal processes
- Data portability in line with data protection regulations
- Cost effective – only pay for what you need

Moto of our Superheroes

1. Model homes as a starting point (RdSAP)
2. Sample using Building Performance Evaluation (Smart HTC – Air Pressure Tests)
3. Prove the model or disprove the model
4. Evolve your plan (Our Bespoke SAP and other tools)
5. Make good decisions
6. Get the best bang for your buck

Save the world 😊



Go find that Superhero

They are waiting for your call!

- By combining these competencies, we ensure the **right experts** are involved at every step of the process
- These are **your** Energy Assessor Superheroes!
- Not available from any other scheme!



Elmhurst Find an Assessor

<https://www.elmhurstenergy.co.uk/find-an-assessor/>

Thank you for Listening