



WIRKSWORTH TRANSITION COMMUNITY LAND TRUST



Presentation and discussion

RETROFITTING HOUSES FOR CLIMATE CHANGE

By Mary Ann Hooper, Nick Bristow and Brian Hebron

UK CONTEXT

- **In 2050, 80% of the housing stock will be houses already built today. To meet our 2050 UK climate targets, over 28 million houses must be decarbonised, nearly 1 million a year.**
- **It is such a mind-boggling challenge - lets just start with thinking about the houses we live in now!**

RETROFITTING – adding something that wasn't done during construction, primarily to improve energy efficiency

- **What is good retrofitting practice?**
- **Use Whole House, Fabric First approach**
- **Make a plan for what needs to be done and in what order.**
- **Consider a phased approach for spreading cost and availability of funds.**

STANDARDS

FOR ENERGY EFFICIENCY OF HOUSES

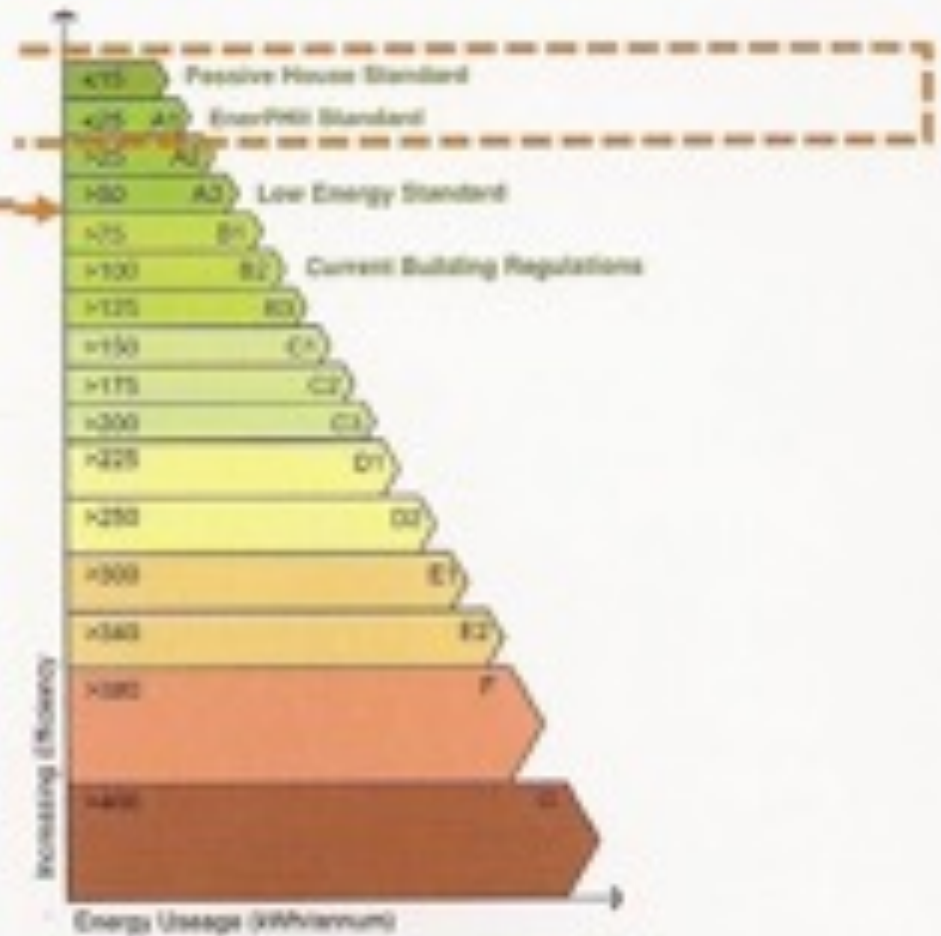
- **Currently: Building Regs 2013, Part L**
- **Other possibilities:**
- **Passivhaus = gold standard for new build**
- **EnerPHit is the Passivhaus standard for retrofitting**
- **Green Building Standard = developed by AECB (Assn for Environmentally Conscious Building)**
- **PAS 2035 = a new British Standard for carrying out retrofits**

Comparison of Energy Performance (from EnerPHit: A Step by Step Guide to Low Energy Retrofit by James Traynor)

Typical

Energy Efficiency Rating	Current	Potential
Very energy efficient - lower running costs		
92-100 A		
81-91 B		85
69-80 C	75	
55-68 D		
39-54 E		
21-38 F		
1-20 G		
Not energy efficient - higher running costs		

Passivhaus/EnerPHit



EPC (Energy Performance Certificate)

Heating demand

GREEN HOMES GRANTS

- **£2 billion available from 30 Sept 2020 to 31 March 2021 – for home owners and landlords in England for a range of energy and low carbon heating improvements**
- **Low income households can get 100% of costs up to £10,000. Others can get up to £5,000 to pay part of the cost.**
- **Find out more and apply on the Simple Energy Advice website.**
- **But! Martin Lewis of the Money Saving Expert site says: it's already a flop!**

BEWARE!

- **Planned regulations for good practice in retrofitting are partly in place, but not wholly until June 2021 at the earliest. (PAS 2035)**
- **The construction industry is only just beginning to hear about this and very few workers have been trained.**
- **How about helping the process along locally?**
- **More money for grants will have to be made available, so lets help local builders and professionals get ready for our requests for quotes when that happens. How?**

ACTION BY WTCLT?

- Our Board of Trustees would need help.
- We could set up a working group with members to decide what to do.
- Possibly organise some online meetings to provide information to local builders, architects and tradesmen?
- Raise money as a charity to fund some training for out of work local residents?
- What else?

Meanwhile, before we break for questions and discussion...

- Brian and Nick will tell you a bit about their experience of retrofitting their houses, and what they might have done differently if they'd known what we know now.
- This presentation will be on our website (Wirksworthtclt.org) for reference and sharing.