## Residential Retrofit

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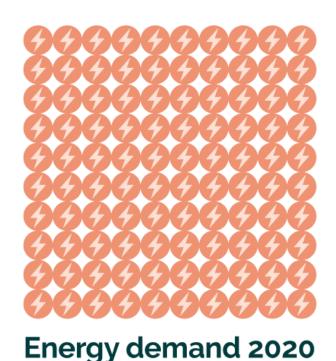


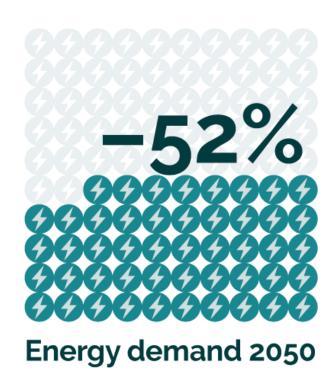






#### Demand reduction is key to meeting climate goals







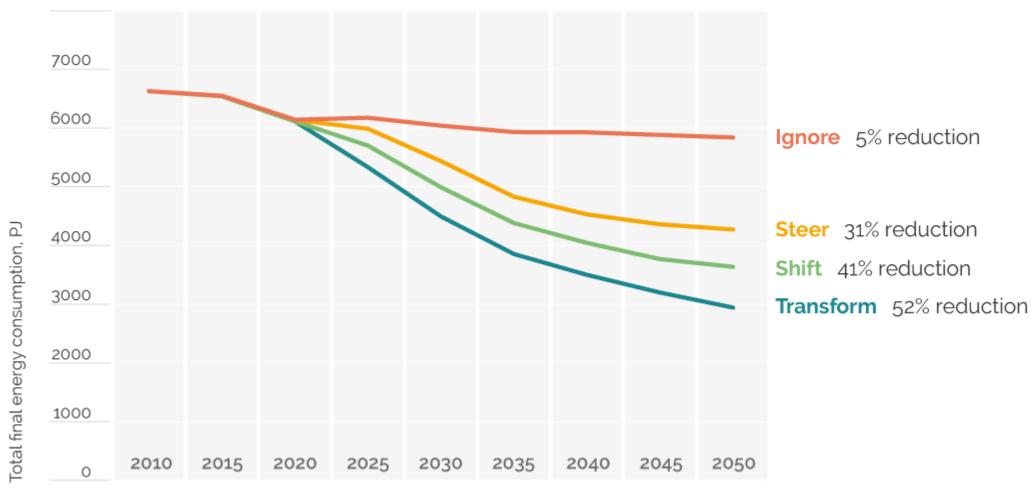
Our positive low energy futures show how the transition to net-zero could look if there was significantly reduced demand for energy throughout the UK economy.

https://low-energy.creds.ac.uk/





### **Energy demand could be halved by 2050**







#### **Energy source changes for residential buildings**









#### Heat delivery technologies in the residential sector







#### Delivering demand reduction: residential retrofit



https://www.fmb.org.uk/resource/building-on-our-strengths.html

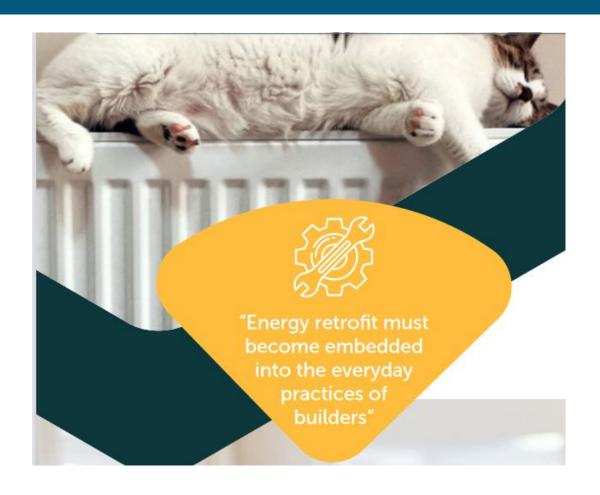
Killip, G., Fawcett, T., Jofeh, C., Owen, A.M., Topouzi, M. and Wade, F. 2021. Building on our strengths: a market transformation approach to energy retrofit in UK homes. Federation of Master Builders and Centre for Research into Energy Demand Solutions.





### The building workforce we already have is key









### We need to get policy right



"We have been put off by stop/start policy schemes - they are too risky for a smaller firm. However, we do want to get more involved in this market"\* - Master Builder







#### Elements of a successful retrofit strategy

- Finance private and public
- Minimum standards for buildings to be more regularly revised
- A licence to trade for building firms
- Education and training reforms
- EPCs reformed to improve accuracy and link to trigger points
- Detailed policy design







#### **Conclusions**

- Making change on the scale necessary in the residential sector is of course complex and challenging
- However, there is a great deal of high quality research and practice indicating positive ways ahead
- A focus on energy demand reduction is vital
- Policy support is needed at all levels of government
- We know what this policy change should look like, progressive parts of the industry are on board let's keep pushing for the positive, low carbon future we need and deserve!





# Thank you!



