LENDERS Project

26th April 2016

Cardiff



Milica Kitson

Chief Executive

Constructing Excellence in Wales







LENDERS Project Background

Levering Economics for New Drivers to Energy Reduction & Sustainability

Emma Thomas, CEW







About CEW







Need for action - Climate Change



Paris Agreement

... hold the increase in global average temperature to **well below 2° C** above preindustrial levels and pursue **efforts** to limit the temperature increase to **1.5° C**

...to undertake rapid reductions in accordance with **best science**

...on the **basis of equity**, and efforts to **eradicate poverty**





To achieve 2oC wealthy nations (inc. Wales) require:



At least **10% reduction** in emissions year on year from **now**... equivalent to: 50% reduction by ~2020 (c.f.1990) 75% ~2025 90% ~2030

Fully decarbonise ALL energy by 2035

c.f. EU's submission to Paris 40% by 2030





The opportunity....



- Could a new approach to lending help drive the retrofit market?
- +/- £1million homes change hands
 every year big driver for retrofit
- Home owners more likely to undertake improvement works in the first year following sale
- Capturing 10% not unrealistic target





The logic ...



- Tendency to under value energy efficiency
- Leads to low demand
- "Green mortgages" could change that
- Recognition that lower bills impact affordability - utilities second largest expense
- Possible impact on house prices

SUCCESS!!!





EPC & Mortgages Report ...



- As part of WLZCH, CEW funded "proof of concept" report
- Demonstrates link between energy efficiency (using data from EPC) and property types and actual fuel bill data
- Report highlights variance between fuel bills >£90/month between high and low energy homes
- Aligns with findings of UKGBC and UCL larger scale study
- Collaboration to form LENDERS





Thank you

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LENDERS Project Summary

Levering Economics for New Drivers to Energy Reduction & Sustainability

Andy Sutton, BRE







My talk will cover...



- Who's involved
- What we're trying to do
- What we're building upon
- How we're trying to do it
- When we're trying to do it by

The subsequent speakers will cover what we hope will happen as a result of our work; "**Why** we're trying to do it"





Who's involved...



Collaborative research project involving Nationwide, Principality, BRE, Constructing Excellence Wales, UKGBC, EST, UCL, Arup & ZCH

Part-Funded by Innovate UK

Support for concept from Welsh Government, DECC and more





What we're trying to do... Project Goal



In essence, we're trying to put energy into mortgages.





Project Goal (more precisely)



 To demonstrate a reliable link between energy information available on domestic properties at the point at which a mortgage would be offered, and those properties typical actual fuel costs.

and...





Project Goal (more precisely)



 To provide robust evidence of this link free to the financial industry, probably through an equation/mechanism that can be used to replace the current fuel estimations in mortgage affordability calculations.





What we're building upon...



- Idea first mooted in 2011 by BRE as part of CEW's WL/ZCH
- CEW commissioned BRE to report on "EPCs & Mortgages"
- UKGBC & UCL collaborated independently from 2014 on "The Role of Energy Bill Modelling in Mortgage Affordability Calculations"
- LENDERS project formed by BRE as a collaboration of all parties, and won part-funding from Innovate UK





What We're Trying to Do... Current Mortgage Method



£/month

x No. Months

& Interest

Maximum Mortgage

- Mortgages are given based on the ability to repay the loan; checked via an "Affordability Calculation"
- The Affordability Calculation varies slightly, but is basically monthly income minus outgoings & some general spending
- This determines how much you can afford to repay each month on your mortgage
- The amount you can repay each month can then be capitalised to a total amount you could borrow





Current Mortgage Method



- These Affordability Calculation costs are generally split into essential (i.e. unavoidable) and non-essential (i.e. avoidable if you have to pay the mortgage)
- Fuel costs are one of the largest 'essential' costs in this calculation
- This is the one we're interested in...





Current Mortgage Method



- The current approach typically takes fuel costs from the Office of National Statistics "Family Spending Report"
- Some lenders then vary this by number of occupants and/or region
- Fuel costs are predicted by your household income and, excluding extremes, are c.£50-£75/month
- This means typically a variance of \pm £12.50 on the Affordability Calc.





Current Mortgage Method



- Over 25 years at 5%, that means the impact of your fuel costs might be worth about ±£2,150 on what you might be able to borrow
- Whilst not "fixed", the fuel cost estimate based on your household income doesn't vary much
- And none of this makes <u>ANY</u> consideration whatsoever of the actual property's features or fabric, it's based on your income





What We're Trying to Do – LENDERS Mortgage Method



 LENDERS project seeks to change the current calculation for fuel costs by considering the actual property







Energy Performance Certificates (EPCs) are legally required on all properties at point of sale

- Fuel costs are known to vary approximately along EPC scores
- EPC "A" & "B" rated properties average fuel cost is c.£56/month ("A" alone is even lower)
- EPC "F" rated properties average fuel cost is £105/month
- This alone gives a range x2 greater than the current method







- LENDERS will also look at other factors that can be ascertained at the point of a mortgage
- This potentially includes occupancy, age of house, type of house, size of house...

...and yes, we'll look to see if household income is a factor too!







- Some evidence suggests that monthly costs for different homes with different occupancies can vary by £90/month or more
- Over 25 years at 5%, that means the impact of those fuel costs might be worth about £15,000 on what you might be able to borrow







- LENDERS therefore seeks to make the Fuel Cost estimate actually relate to the energy performance of the house being mortgaged
- LENDERS also seeks to increase the range of the Fuel Cost estimate, in order to greater impact on the maximum mortgage lending amount





Project Programme

- LENDERS is looking to complete in Spring 2017
- To proof the concept, LENDERS needs a large dataset of information on houses, energy costs and EPCs
- We're running a survey to gather this; please help us out by filling it in.

The survey can be found at: <u>http://tinyurl.com/jc7wjqa</u>





Thank you

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Llywodraeth Cymru Welsh Government

www.cymru.gov.uk

Lenders Project Welsh Government perspective

Cardiff 26 April 2106

Francois Samuel Building Regulations Welsh Government

Why we care about residential energy

Benefits

- •Warmer, more comfortable homes
- •Health benefits
- •Reductions in energy bills
- •Jobs and economic activity in insulation and construction industries
- •Reducing greenhouse gas emissions
- Improved energy security –less total demand, and reduced peak demand

The Policy drivers

EU level targets:

- 20% energy saving by 2020 and 27% by 2030 (the latter binding at EU level) EED 2102
- Nearly zero energy newbuild by 2018/20 EPBD 2012

UK legislation:

- 80% greenhouse gas emissions cut by 2050
- Carbon budgets –50% cut by 2023-2027 (fourth carbon budget)

Welsh Government:

- 2010 Strategy to tackle fuel poverty
- Environment Act (Wales) 2016 Carbon budgets
- Wellbeing of Future Generations Act 2015
- Building Regulations Part L

Why LENDERS matters

Consumers tend to undervalue energy efficiency, leading to low demand

"Green mortgage" type products could change that – recognising that lower bills impact affordability

But for that to happen, the evidence needs to be in place to support those products to give confidence

Research through LENDERS project offers a vital part of that evidence base

Welsh Government funded 2014 report



125 properties analysed EPCs against energy bill data

Conclusion EPC rating was a reasonable affordability indicator

A gap in the assessment of mortgage affordability?

Lender interest in pursuing further

Why we are here today to launch the Lenders project.

Thank You





Principality Building Society Mike Pollitt







Principality Involvement

- 1. As Wales' largest Building Society we are proud to be at the heart of our communities throughout Wales and its borders
- 2. A key objective for the society is involve colleagues, members and local communities in activities that support and benefit people and the areas around them.
- 3. Leaving a legacy for future generations is something we are passionate about.
- 4. Discussions Re. project late 2014/2015.
- 5. Agreed to join Nationwide and contribute to project.





The LENDERS project linking home energy performance to mortgages







Three Key Tests

Is the correlation robust?

Can we effectively anticipate actual fuel cost from combined EPC & property information?

Is the cost variation significant?

Is their enough difference for a large enough number of properties?

Can the mortgage process be reengineered? Can we effectively and efficiently incorporate any change into the mortgage process?



HOME BUILDERS FEDERATION

LENDERS Project 26th April 2016

Why do HBF support the project?

In 2015 HBF published a series of fact sheets about the advantages of buying a new home. 'New homes currently built in the UK are roughly 50% cheaper to run per year than the equivalent Victorian house. That could mean an annual saving of £440 for a 1bed ground floor flat, and £1,410 for a 4-bed detached house.' *

*Zero Carbon Housing - Annual Running Costs 2014 Zero Carbon Hub.

NEW IS GREENER AND CHEAPER! THE ENVIRONMENT

When you're thinking about buying a home, it's never just the initial price of the property that you've got to take into consideration. Removal costs, legal fees and stamp duty are

just some of the other costs that you'll likely have to bear in mind. You'll also have to consider running costs in the future.

Buying a new build home means you'll be getting an exceptionally high quality home built to the latest exacting building standards. This means your home will not only stand the test of time, but will actually end up saving you a lot of money every year. water drainage systems. AN EFFICIENT NEW HOME

MEANS SAVINGS FOR YOU The benefits are not only keeping We're working hard to reduce the you warmer in winter, but also size of the carbon footprint we leave saving you money on your utility on the planet when we develop bills every year. sites for new homes. As a result,

energy efficiency standards and CO2 emissions in new homes built in England and Wales are some of the best in the world.

On average, new homes built in England and Wales today are 65% more energy efficient than a Victorian house of the same style. This is achieved through a

combination of innovative design and using the most modern materials available, for example installing boilers that only give you hot water when you need it, fitting modern double glazing, using quality insulation in the roof and walls, and by creating sophisticated detached house.

of innovative designs that mean on average they use 30%* less water than older properties. This saves the average home owner £54** on their water bill every year. New homes also fit water efficient sinks, toilets, baths and showers as standard; so, you not only save water, you also save money.

In addition, new homes use a series

New homes currently built in the UK are roughly 50% cheaper to run per year than the equivalent Victorian house. That could mean an annual saving of £440 for a 1-bed ground

SO, WHAT'S IT WORTH TO ME?

floor flat, and £1,410 for a 4-bed

WHY BUYING NEW IS CHEAPER AND GREENER



new build homes must reduce average daily water use to 105 litres per person, per day. "The average UK water-only bill is £180 per year







Future Need and Demand for Housing in Wales September 2015 Alan E. Holmans Cambridge Centre for Housing and Planning Research

It is estimated that over the period 2011 to 2031 an additional 174,000 - 240,000 'units' (houses or flats), or 8,700 - 12,000 a year, will be needed; of which 64% would be in the market sector.





First Phase (still running) could allow 5,000 properties to be purchased, latest statistics (March 2016) show 2,788 helped since January 2014.

Second phase up to £290 million invested Between 2016 – 2021 allowing over 6, 000 properties to be purchased.

A total of 11,000 properties potentially supported between 2014- 2012.

Andy Sutton, BRE

Q&A/Summing Up



Close

Lunch/Networking

