



BEAMA - From Policy to Practice: Unlocking Retrofit Opportunities in Smart Energy and HeatingSeptember 2025



"From Policy to Practice: Unlocking Retrofit Opportunities in Smart Energy and Heating"

Retrofit is central to delivering net zero, and with 29 million homes requiring upgrades, UK policy is creating a clear pathway where commitments on heating, EVs, batteries and metering align to make retrofit the defining market for smart energy technologies – presenting both a challenge and a major opportunity for manufacturers. This session explores the key policy drivers and shows how they translate into real commercial opportunities across smart energy, heat, batteries and controls.

Slides

- Retrofit opportunity general stats
- Investment
- Smart building (what does that mean

 what the specific tech
 opportunities). Reference matrix
- - what the commercial opportunities
- Key policy drivers
- Flexibility
- How are beama supporting policy

BEAMA

The trade association for energy infrastructure & systems

Leadership, expertise and independent influence in the areas of product safety, performance, energy efficiency, digital and sustainability.





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Retrofit in homes

Housing is one of the key areas that needs addressing to meet Net Zero target for 2050



READY FOR ELECTRIFICATION

READY TO CONTRIBUTE TO GRID FLEXIBILITY

READY FOR HEALTHIER LIVING





UK TURNOVER

£14 BILLION 90,000

PEOPLE EMPLOYED IN THE UK EXPORTING

£5
BILLION
WORLDWIDE

Electricity demand could grow by

70% by 2035...

...Resulting in a tenfold increase in product demand for some sectors

Net Zero could require private investment of up to

£50 billion

per year by

2030

£1tn

GLOBAL MARKET

400,000

NEW UK JOBS NEEDED BY 2050 Delaying action by ten years could incur UK debt

23% of GDP higher in

2050

such as electric heating systems, battery or EV could save

The average household with flexible technologies

£115 a year on their energy bills.²



Yet, just 5% of homes currently use low carbon heating. That's a clear gap – and a big opportunity.³

The National Infrastructure Commission adds weight to this. It says the UK will need

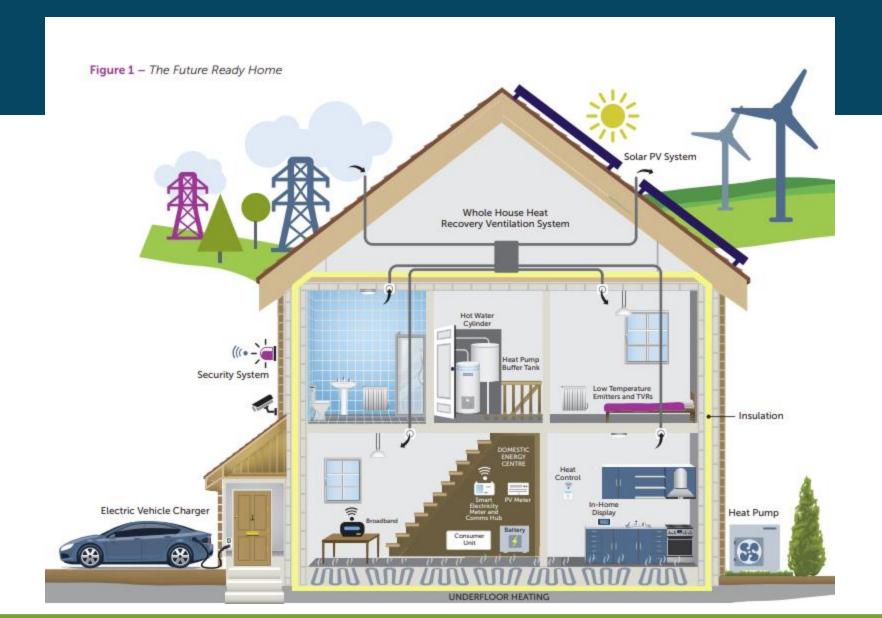
£37-50 billion of investment in electricity distribution by 2050

in electricity distribution by 2050 to deliver flexibility.

What is the investment worth for Net zero, Flexibility, and Retrofit?



So what products are in scope when we talk about energy efficiency?





Policy Landscape

The interlinking policies across the board is tricky. So how do we manage this?







Policy Landscape – a Manufacturer's perspective

Challenges Facing Manufacturers in Achieving Net Zero Initiatives

- Manufacturers and industry stakeholders are currently navigating a complex landscape of evolving policies and legislation related to net zero initiatives.
- ➤ This environment requires them to piece together various requirements and frameworks to develop effective strategies for decarbonisation.

Policy Complexity:

➤ Multiple, overlapping policy and legislative efforts are underway, making it challenging for manufacturers to understand how they interconnect and what is required for compliance.

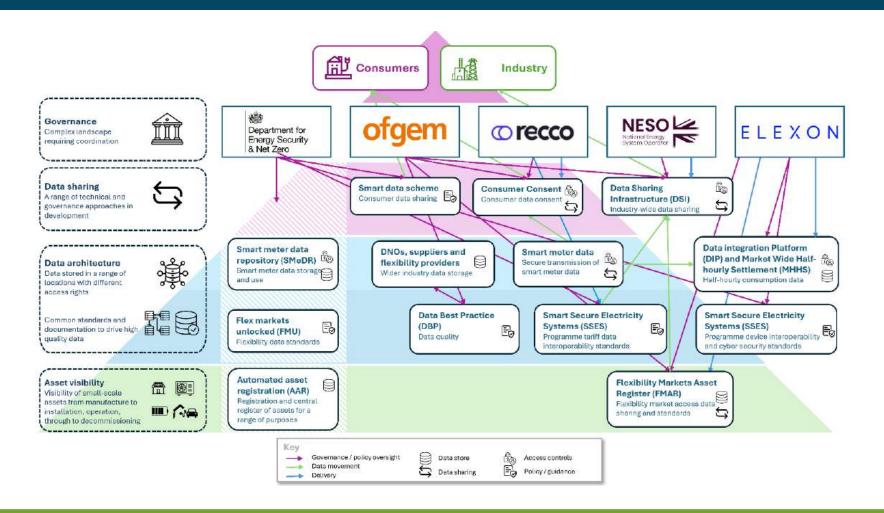
<u>Uncertainty in the Commercial Landscape:</u>

➤ Manufacturers are eager to establish a clear commercial pathway, but progress is hindered by a lack of clarity in current regulations and guidance...



The Flexibility landscape – why is flexibility important?

Hitting the UK's Clean Power 2030 target depends on a huge scale-up of flexibility, especially from homes and small businesses.





What are the Consumer challenges?

HEAT OPTIONS MATRIX How do we reach out to consumers to guide them through *ACCELERATING retrofit options?

BEAMA's guiding principles – customer first

- Normalise electrification through the provision of clear guidance and customer choice.
- Incentivise flexibility across all aspects of energy policy.
- Boost customer confidence through high standards for safety and consumer protection.

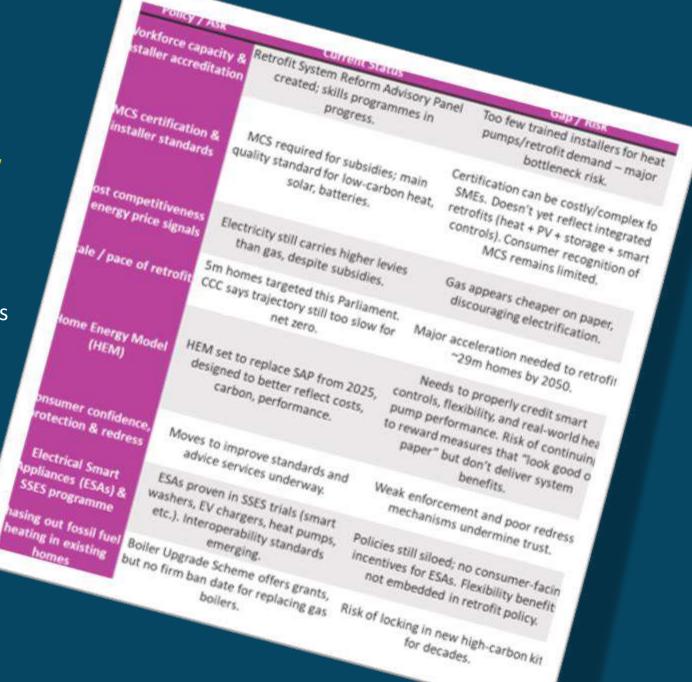




What are the policy gaps?

Not an exhaustive list

BEAMA lobbying for a number of policy areas





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Inform and Influence

Lobbying for policy, standards, technical change

Extensive Political Engagement with Ministers and Departments





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#ACCELERATING ELECTRIFICATION