



# Trends in energy efficiency in social housing

**John Skivington,  
LHC Group Director**

Homes UK, 28<sup>th</sup> November 2019

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# UK Parliament declares climate change emergency

🕒 1 May 2019

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Climate change

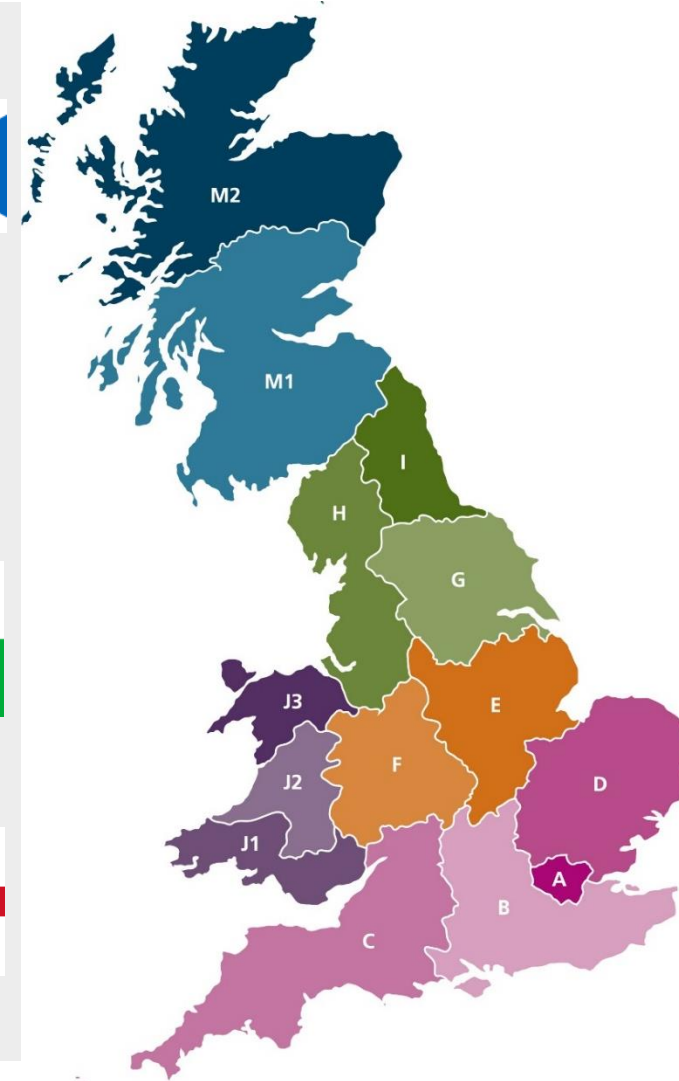


MPs have approved a motion to declare an environment and climate emergency.

## Regional differences



Source: <https://www.energysavingtrust.org.uk/blog/fuel-poverty-policy-wales-taking-inspiration-scotland>



# LHC N7 Energy Efficiency Framework

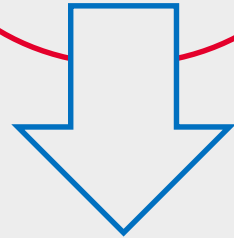


	No. Clients	No. Projects	£ Project Value
Scotland	36	101	£78,393,592
Wales	2	2	£81,691
England	28	34	£30,503,855

## Commitment from UK Government

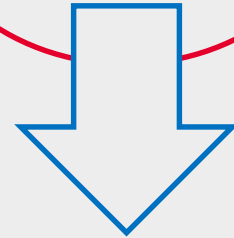


33%



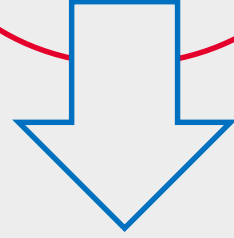
Reduction in the  
whole life costs of  
assets

50%



Reduction in the  
time taken from  
inception to  
completion of new  
build and  
refurbished assets

50%



Reduction in  
greenhouse gas  
emissions in the  
built environment



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*Efficiency & Environment, Policy*

## **New energy efficiency standard for social housing in Scotland**

It aims to maximise the number of homes in the social rented sector attaining an Energy Performance Certificate rating B by 2032

- EPC rating B by 2032
- To be reviewed in 2025
- aiming for a minimum standard for no social housing to fall below EPC rating D from 2025.



## **Better Homes, Better Wales, Better World**

Decarbonising existing homes in Wales

Report to Welsh Ministers from the Decarbonisation  
of Homes in Wales Advisory Group

18 July 2019

- Welsh Government were one of the first to declare a climate emergency in April 2019.
- The Environment (Wales) Act 2016 set a target of reducing carbon emissions by at least 80% by 2050;
- in June 2019, the Welsh Government adopted the upgraded reduction target of 95% recommended by the UK Committee on Climate Change (UKCCC) and set out an ambition to achieve net zero carbon by 2050.



- The Committee on Climate Change recommends net-zero greenhouse gases by 2050.
- In Scotland, recommends a net-zero date of 2045, reflecting Scotland's greater relative capacity to remove emissions than the UK as a whole.
- In Wales, recommends a 95% reduction in greenhouse gases by 2050.
- A net-zero GHG target for 2050 will deliver on the commitment that the UK made by signing the Paris Agreement.
- It is achievable with known technologies, alongside improvements in people's lives, and within the expected economic cost that Parliament accepted when it legislated the existing 2050 target for an 80% reduction from 1990.



Ministry of Housing,  
Communities &  
Local Government

## The Future Homes Standard

2019 Consultation on changes to Part L (conservation of fuel and power) and Part F (ventilation) of the Building Regulations for new dwellings

- Ban fossil fuel heating systems from new homes by 2025 and
- Change building regulations to reduce the carbon footprint of homes built after 2025
- Consideration of whether to commence the amendment to the Planning and Energy Act 2008, which would restrict local planning authorities from setting higher energy efficiency standards for new homes.

INSIDE  
HOUSING

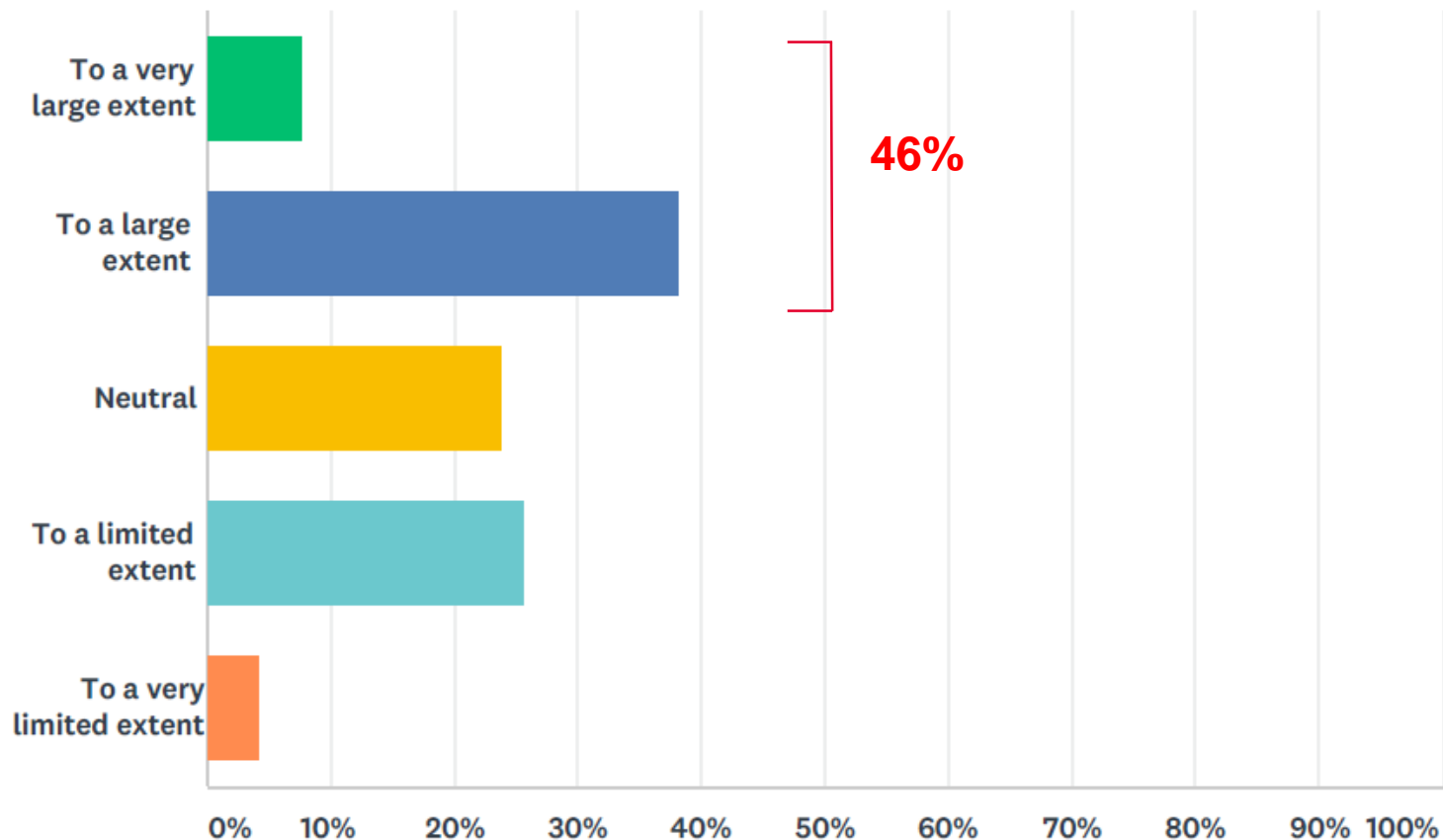


**409 respondents:**

- Asset managers
- Procurement managers

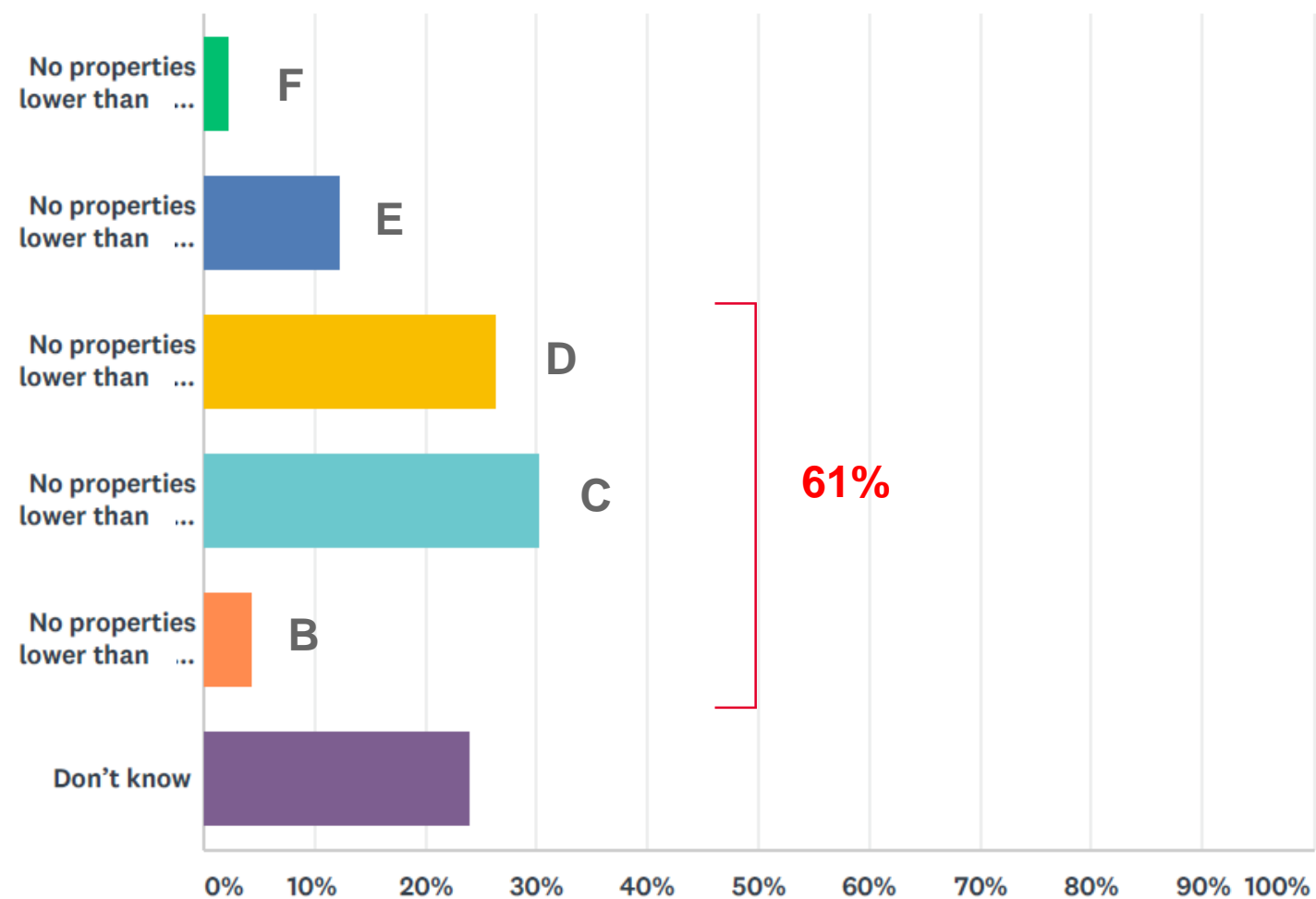
## Q2 To what extent do you believe energy efficiency figures in organisational decision making when procuring products and services?

Answered: 357 Skipped: 53



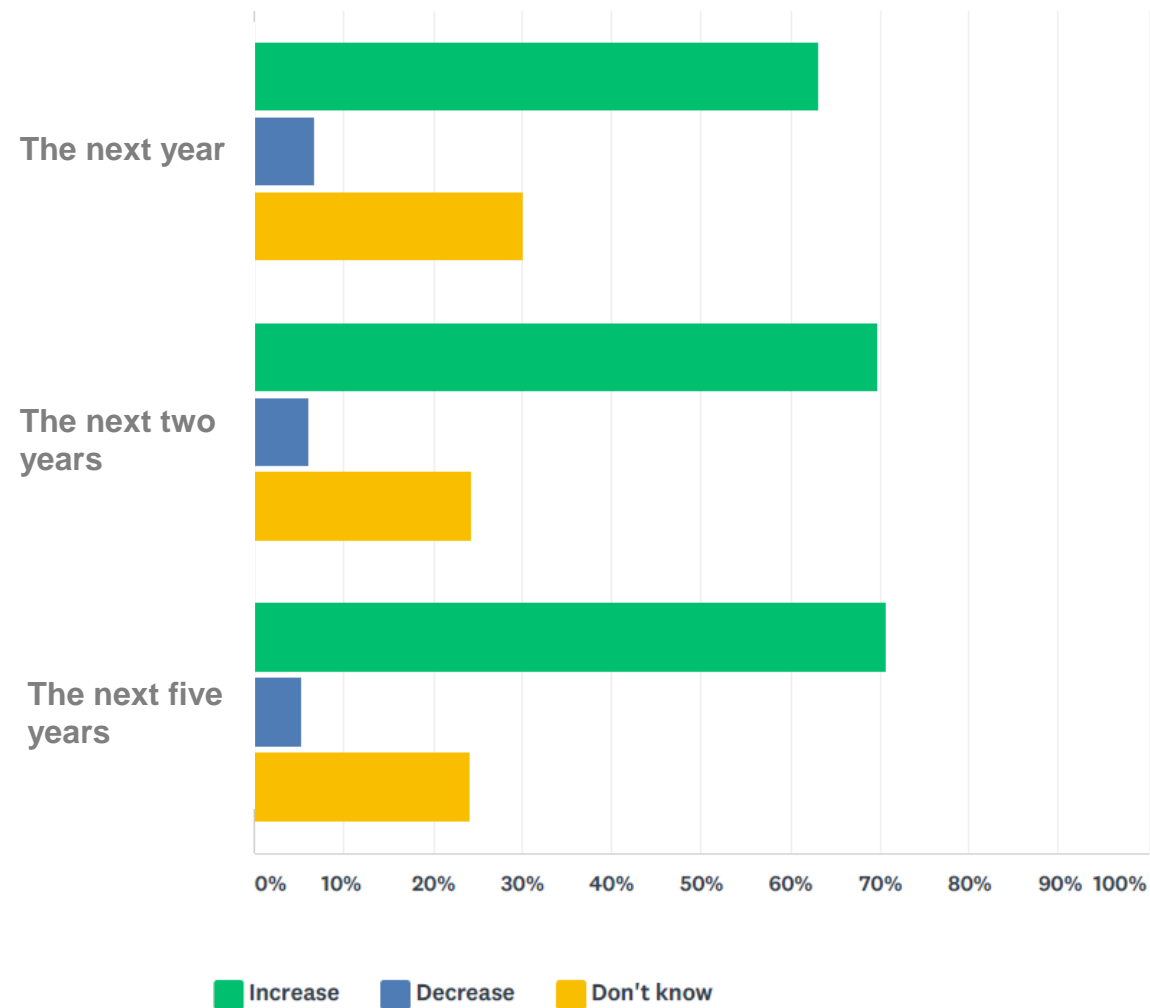
# Q4 Is there a minimum EPC (Energy Performance Certificate) for which your organisation aims?

Answered: 178    Skipped: 232



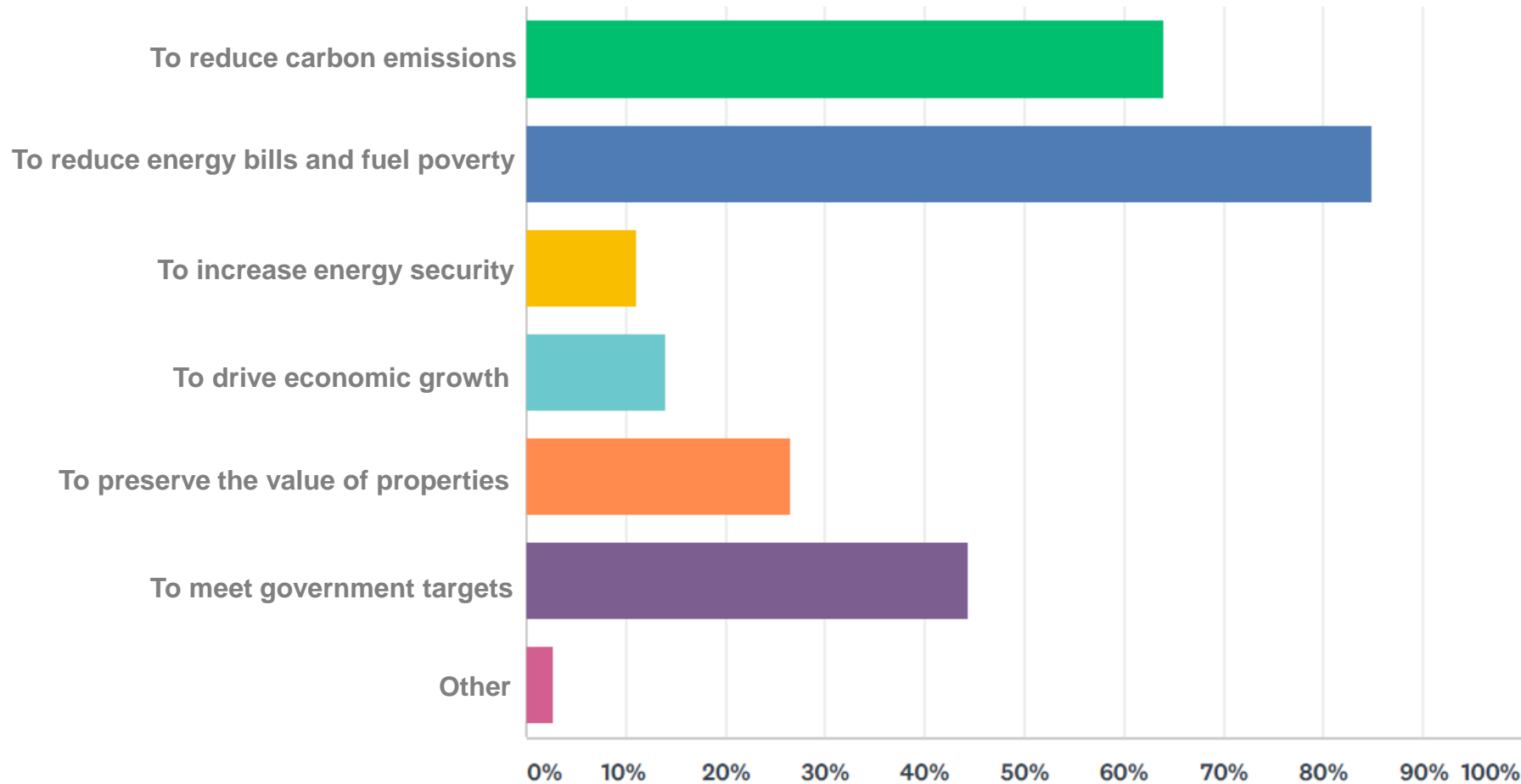
## Q5 Do you expect your organisation's spend on energy efficiency to increase or decrease over:

Answered: 299 Skipped: 111



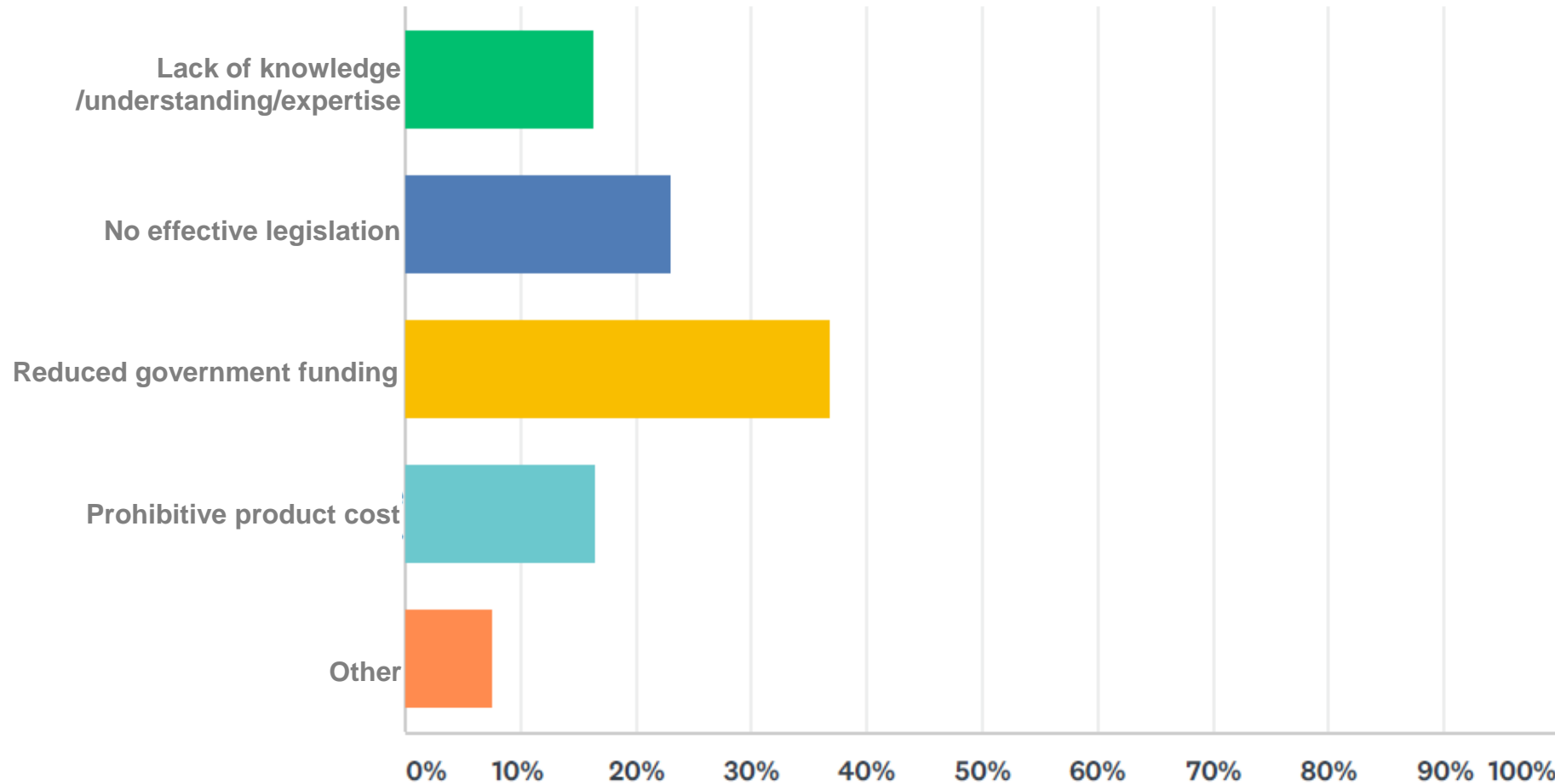
## Q6 Which do you believe are the most important drivers for your organisation investing in energy efficiency?

Answered: 300 Skipped: 110



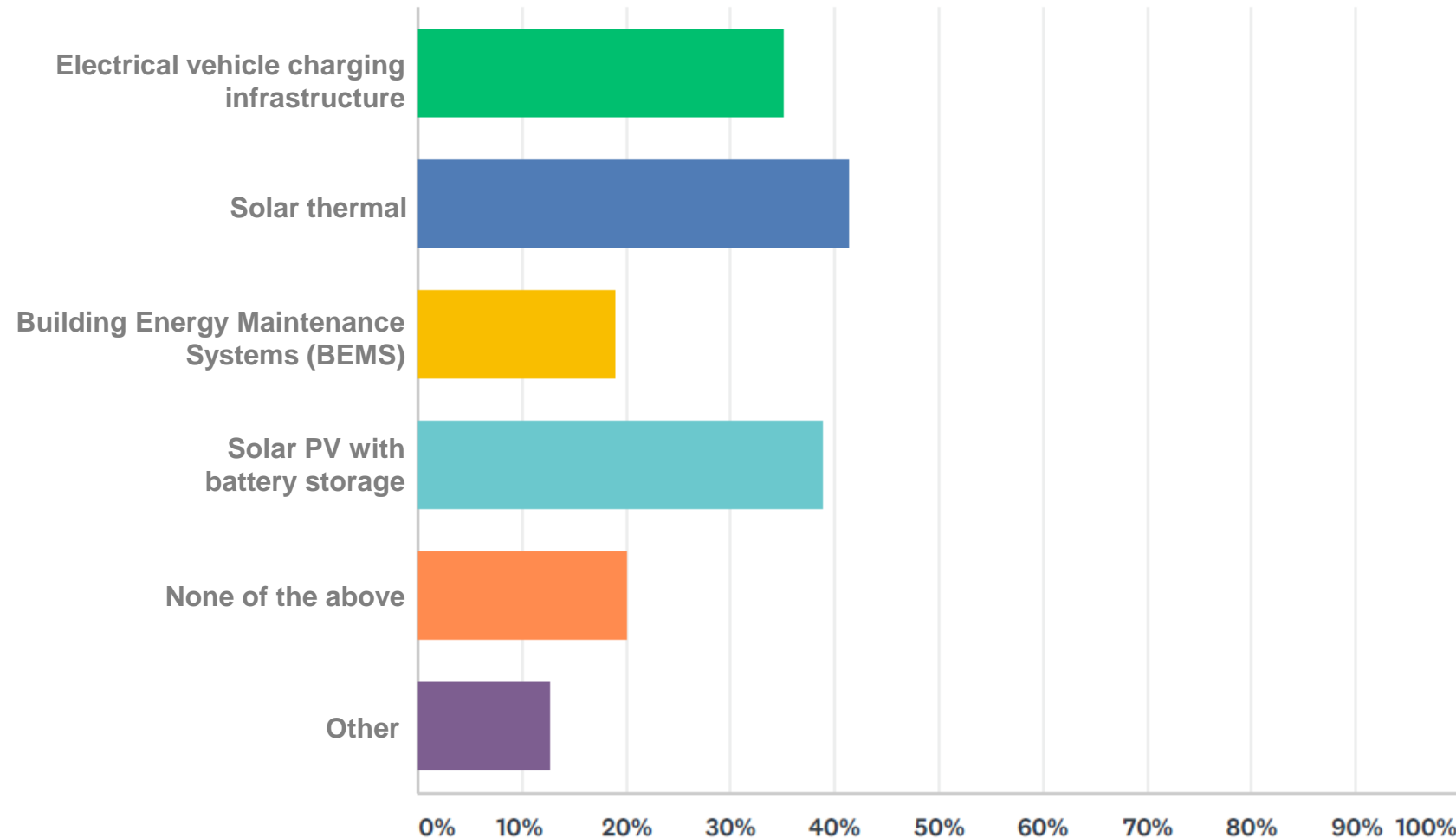
# Q7 Which of these do you believe to be the most significant barrier to the wider installation of energy efficient measures in UK homes?



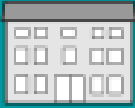
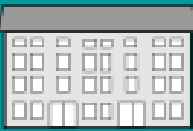



































Answered: 296 Skipped: 114



## Q10 In which of the following new technologies has your organisation already invested? (Tick as many as apply.)

Answered: 288 Skipped: 122



	Domestic/small unit	Leisure facilities	Office non 24/7	Multi-functional 24/7
				
<b>CHP</b>	<p>£ £ £</p> <p>-</p> <p>  </p>	<p>£ £ £</p> <p></p> <p>  </p>	<p>£ £ £</p> <p>-</p> <p>  </p>	<p>£ £ £</p> <p></p> <p>  </p>
<b>BEMS/Smart home technology</b>	<p>£</p> <p>  </p> <p></p>	<p>£ £</p> <p>  </p> <p> </p>	<p>£ £</p> <p>  </p> <p> </p>	<p>£ £</p> <p>  </p> <p> </p>
<b>KEY</b>	<p>£ 3 = high cost 2 = medium cost 1 = low cost</p>			<p> 3 = high savings 2 = medium savings 1 = low savings</p> <p> 3 = long payback 2 = medium payback 1 = short payback</p>

Solar PV with battery storage



Electrical vehicle charging infrastructure



Solar thermal



Building Energy Maintenance Systems (BEMS)



**CHP**

- Relative Cost
- Carbon savings
- Payback period

**Solar PV with Battery Storage**

- Relative Cost
- Carbon savings
- Payback period

**Cladding / rainscreen**

- Relative Cost
- Carbon savings
- Payback period

**Gas absorption units**

- Relative Cost
- Carbon savings
- Payback period

**Plant room technologies**

- Relative Cost
- Carbon savings
- Payback period

**LED lighting controls**

- Relative Cost
- Carbon savings
- Payback period

**EV Charging Infrastructure**

- Relative Cost
- Carbon savings
- Payback period

**Solar thermal**

- Relative Cost
- Carbon savings
- Payback period

**BEMS/Smart home technology**

- Relative Cost
- Carbon savings
- Payback period



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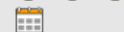
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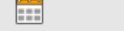
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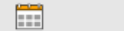
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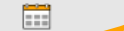
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**KEY**

£ 3 = high cost  
2 = medium cost  
1 = low cost

3 = high savings  
2 = medium savings  
1 = low savings

3 = long payback  
2 = medium payback  
1 = short payback

# LHC N8 Energy Efficiency Framework – May 2020

## Insulation

External Wall –  
EWI

Cavity Wall – CWI

Internal Wall – IWI

Loft Insulation

Floor Insulation

Cladding and  
rainscreen

## Heating systems

Biomass

Traditional Boilers

District Heating

CHP and micro  
CHP

Electric heaters

Commercial  
boilers

## Control technologies

Plant Rooms

BEMs

LED lighting  
controls

## Solar and EV

Solar PV and  
Battery Storage

Solar Thermal

EV Charging

## Heat pumps

Air to water

Ground source

Gas absorption



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## ENERGY EFFICIENCY & REFURBISHMENT

This framework is relevant for the supply and installation of energy efficiency and refurbishment measures delivered through three individual Workstreams.

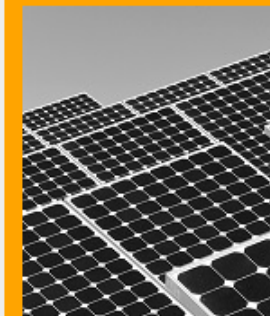
### **This OJEU compliant framework offers:**

- Supply and installation companies that are specialist, competent contractors (PAS 2030 and MCS or equivalent certified installers)
- Companies that supply and install energy saving measures that are compliant with all relevant funding streams (e.g. ECO Funding, Renewable Heat Incentive, Feed in Tariff and Devolved Administration funding)
- Workstream 1: Energy Consultants and Project Management services including, but not limited to: Building energy policy and strategy development, energy audits and surveys, chartered surveyors reports and Green Deal Advice Reports (GDAR), project management services, building energy certificates, as well as principle design

### PROCUREMENT GUIDE



### Energy Efficiency & Refurbishment



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## Q&A Session

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