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# New build and the Clean Growth Strategy

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Department for  
Business, Energy  
& Industrial Strategy

# The Industrial Strategy “grand challenges”



## **AI & Data Economy**

We will put the UK at the forefront of the artificial intelligence and data revolution



## **Future of Mobility**

We will become a world leader in the way people, goods and services move



## **Clean Growth**

We will maximise the advantages for UK industry from the global shift to clean growth



## **Ageing Society**

We will harness the power of innovation to help meet the needs of an ageing society

# The Strategy sets out ambitious proposals to achieve our carbon reduction goals



*Business:* Aspiration to **improve business energy efficiency by 20% by 2030**



*Transport:* Ambitious road strategy



*Homes:* Comprehensive package to cut costs and emissions – working towards **2035 ambition**



*Natural resources:* Ambitious **25 Year Environment Plan**; action on **reducing waste / increasing recycling**



*Power:* International leadership on **CCUS**; delivery of **renewables auction** and **smart systems plan**

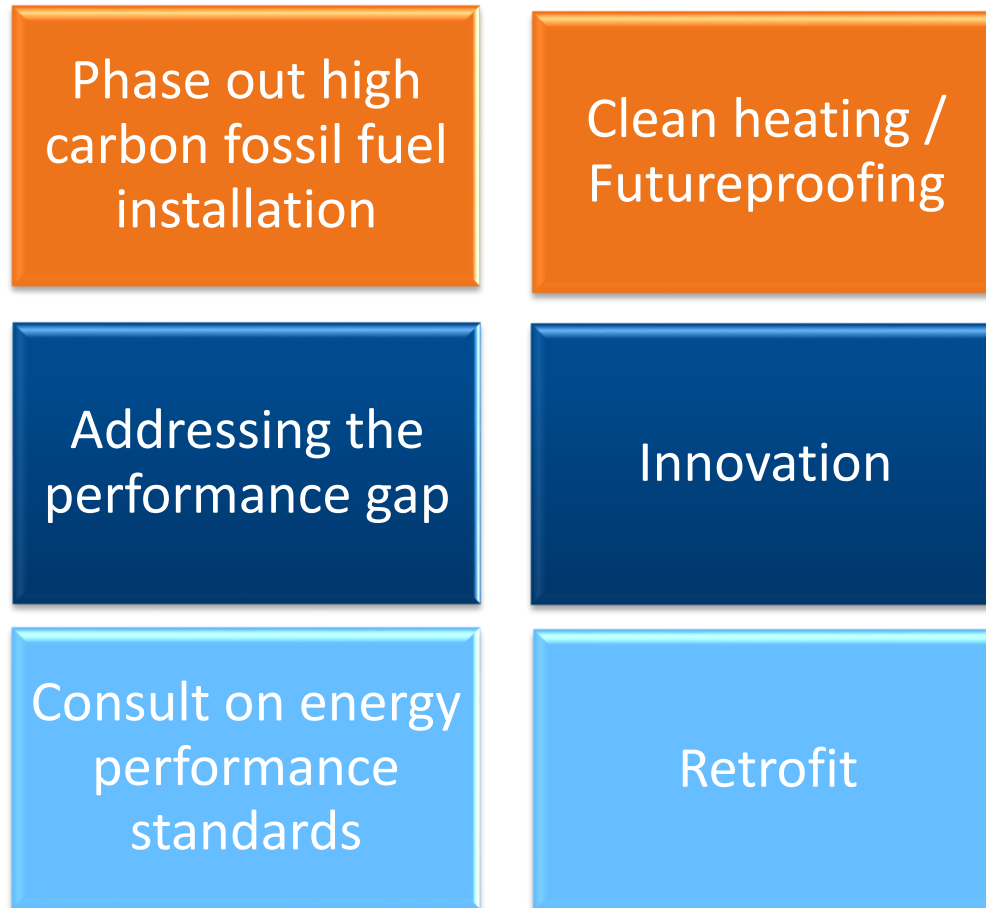


*Public sector:* Tighter targets for **central government**, voluntary targets for wider public sector

# The Buildings Mission

At least halve the energy use of new buildings by 2030

# Clean Growth Strategy: key new-build commitments



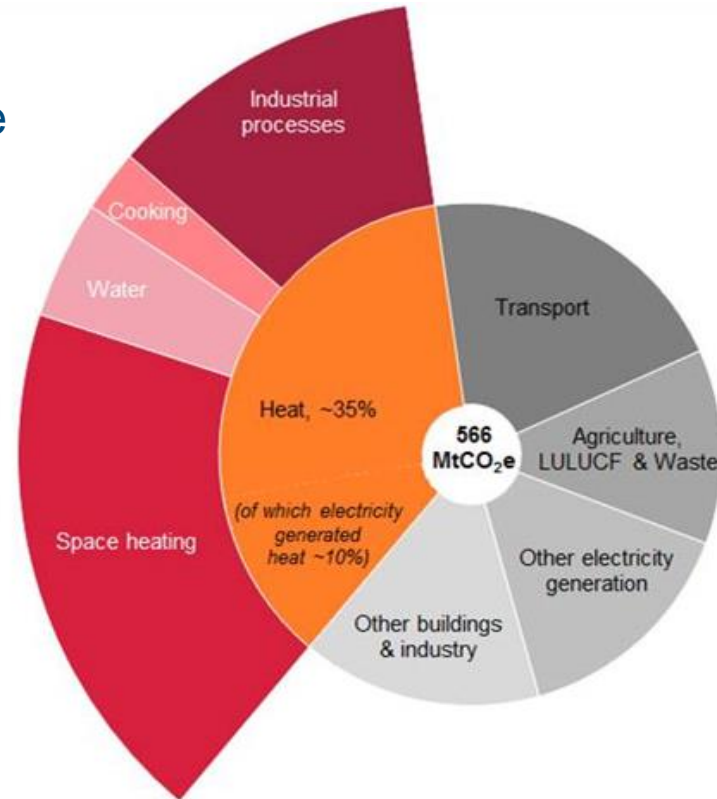
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# Decarbonisation of heat

Heat is the single biggest reason we use energy in our society and the biggest source of greenhouse gas emissions in the UK.

“Decarbonising heat is our most difficult policy and technology challenge to meet our carbon targets” (*Clean Growth Strategy*)

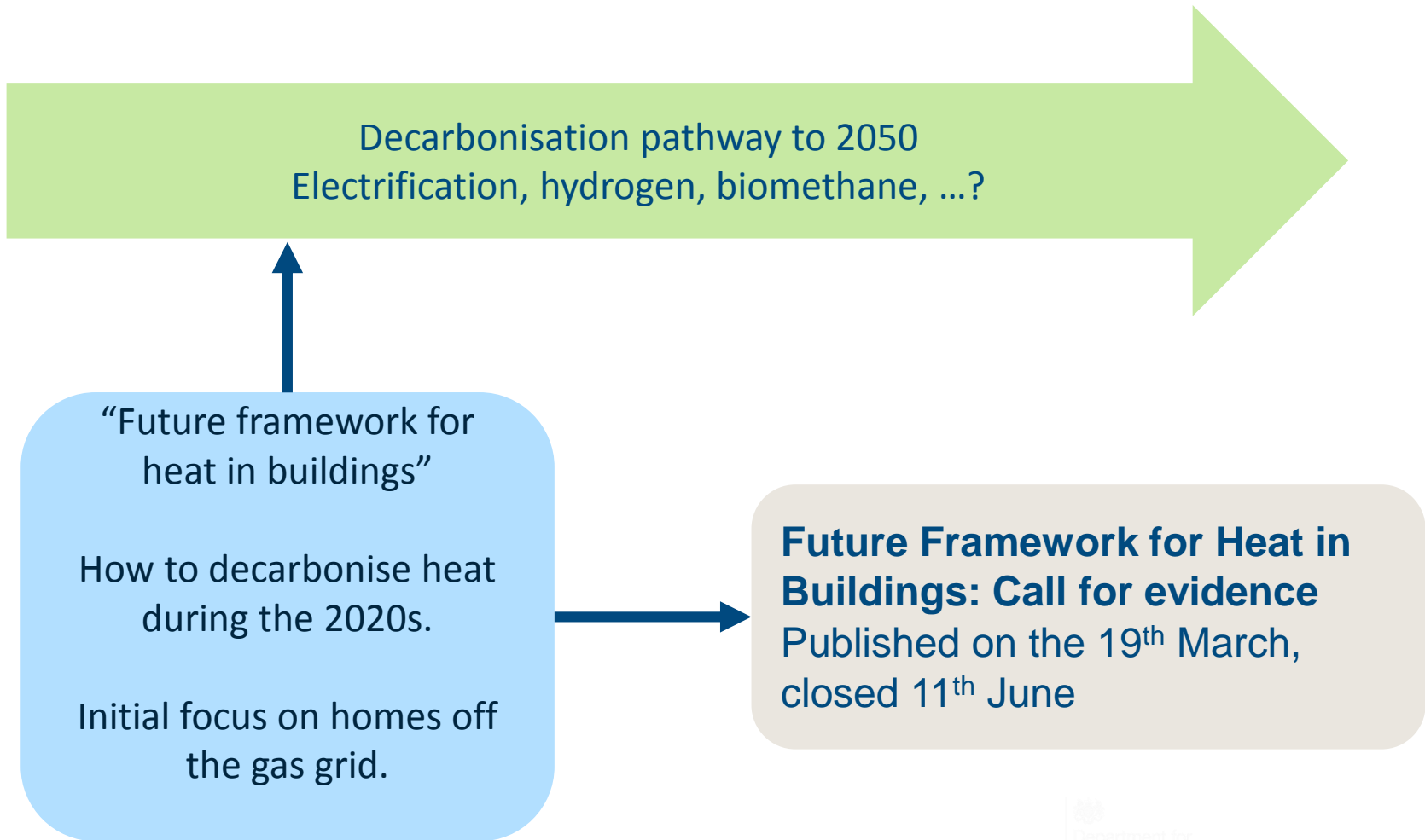


**Estimated UK emissions attributable to heating, 2013**

Source: Unpublished estimate, Energy consumption in the UK, Government Emission Conversion Factors (BEIS)

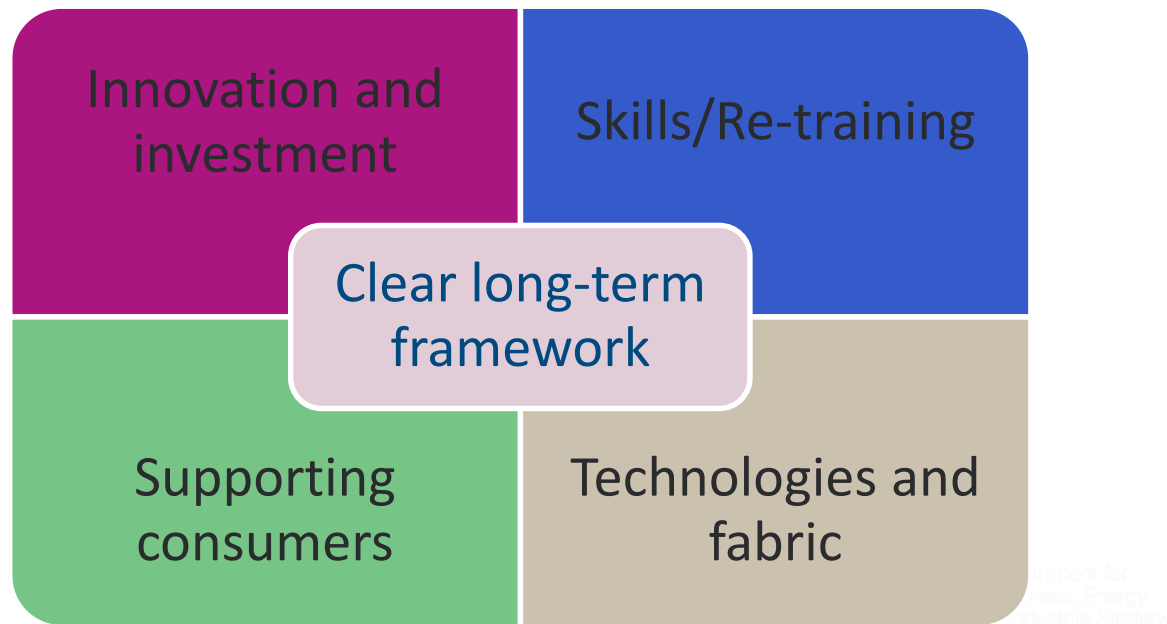


# Decarbonisation of heat



# Phasing out high carbon fossil fuel

- Phase out the installation of high carbon forms of fossil fuel heating in new and existing buildings off the gas grid during the 2020s, **starting with new build**
- Key messages from the Call for Evidence:





# Clean heating / Futureproofing

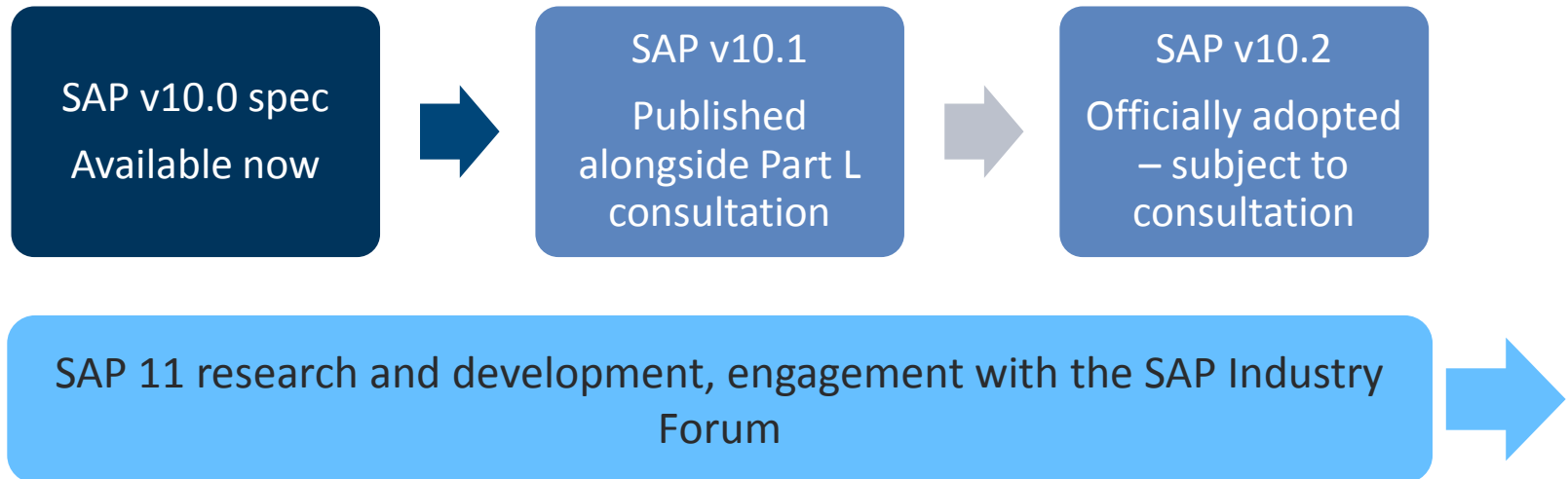
CGS commitment:  
Consult on futureproofing

Buildings Mission  
By 2030, every new  
building uses clean heating

- The call for evidence suggested futureproofing measures could be larger heat emitters, including space for hot water storage, tightening fabric efficiency....
- Next stage: Part L consultation

# Addressing the performance gap

- Compliance and enforcement
- Smart Meter Enabled Thermal Efficiency Ratings (SMETERS)
- Standard Assessment Procedure (SAP)



# Innovation



**Building for 2050** - <https://www.buildingfor2050.co.uk>

- £1.4 million invested
- Low cost, low carbon housing – how to increase demand and improve supply

## **Other projects related to homes include:**

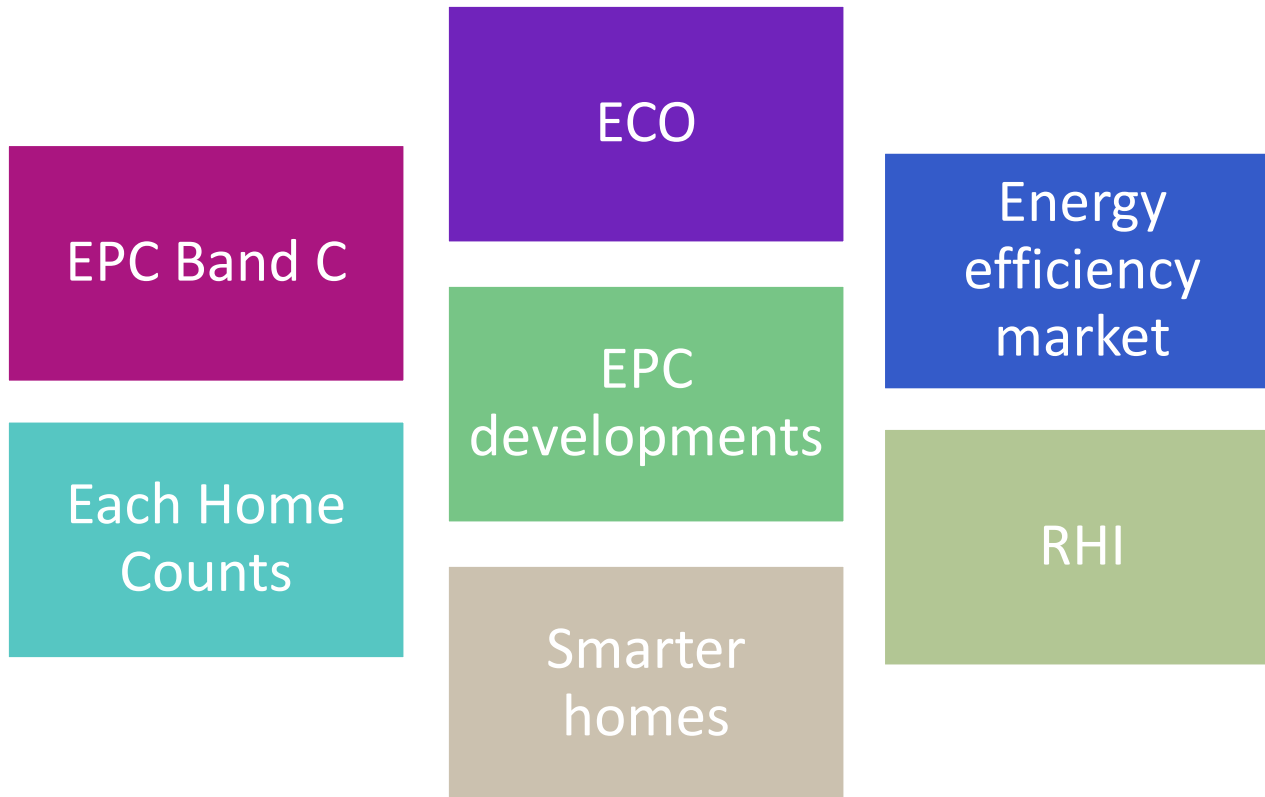
- Low carbon heating technology innovation
- Thermal efficiency innovation
- Smart heating systems

<https://www.gov.uk/guidance/innovations-in-the-built-environment>

## **Buildings Mission**

- Watch this space...

# Existing homes





# Green Great Britain Week

15-19th October 2018

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# Questions?

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