

# Advancing Net Zero with Passivhaus



**NEWS: 19 cities pledge to make new buildings net zero carbon by 2030**



UKGBC Advancing Net Zero

Watch later Share

## Advancing Net Zero

A major new programme to drive the transition to a net zero carbon built environment

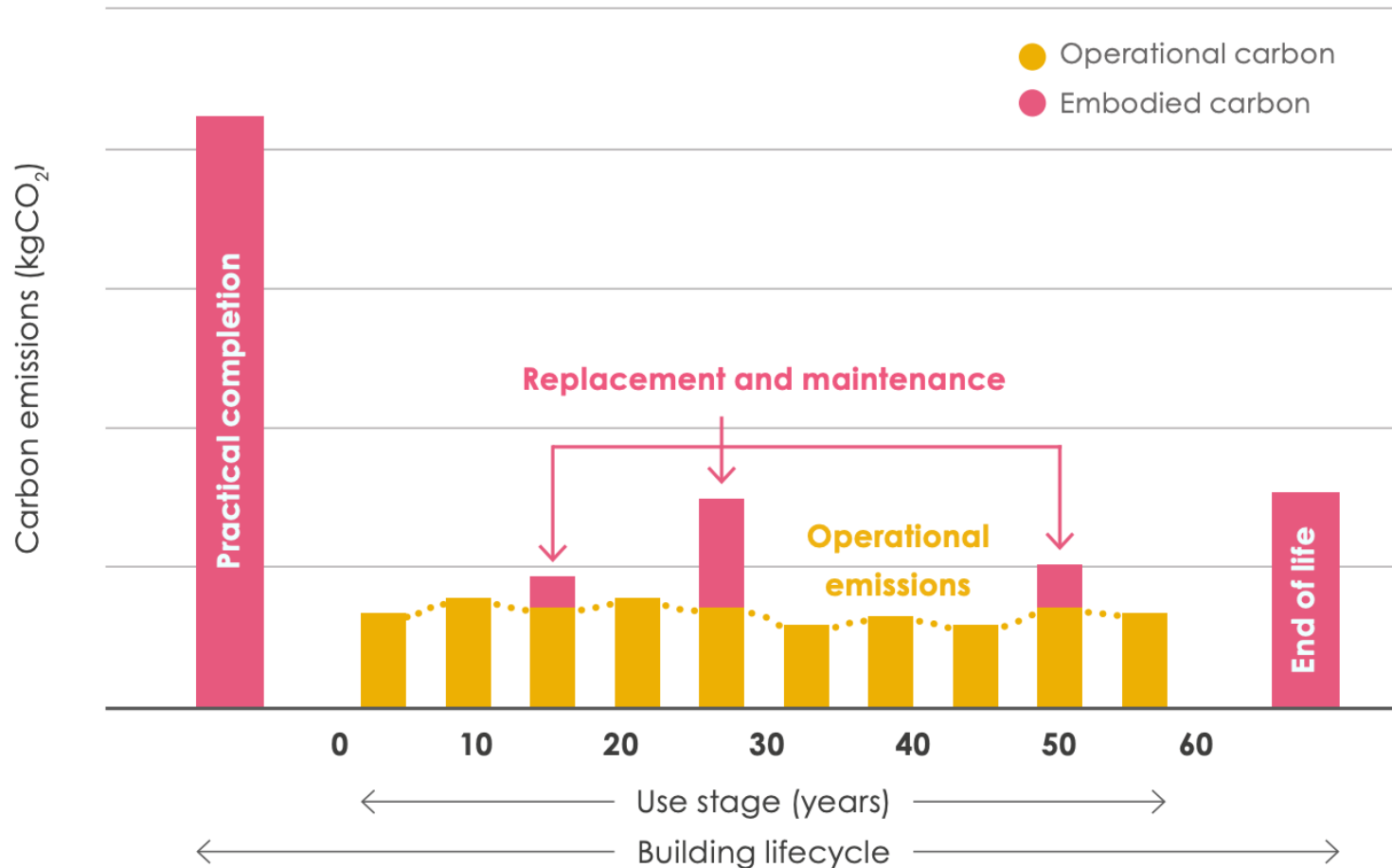
The video thumbnail features a large, stylized blue graphic of a hand or a cluster of squares on the left. The background is a dark, high-angle view of a city building. The UKGBC logo is in the top left corner, and 'Watch later' and 'Share' icons are in the top right corner.

# Advancing Net Zero



- What is net zero?
- Where are we now?
- So how could we do this?

# Operational vs Embodied

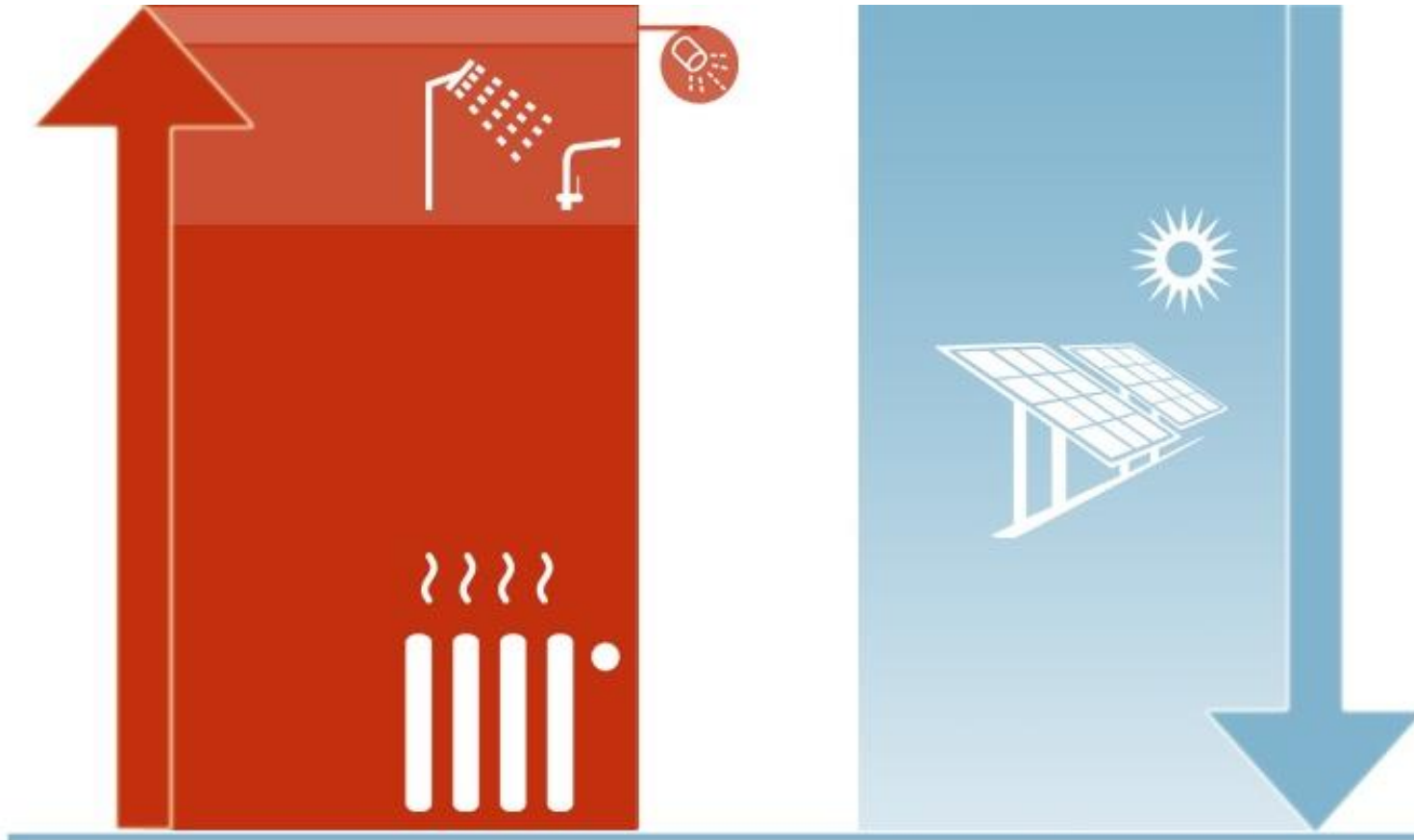


Source: LETI Climate Emergency Design Guide, Jan 2020

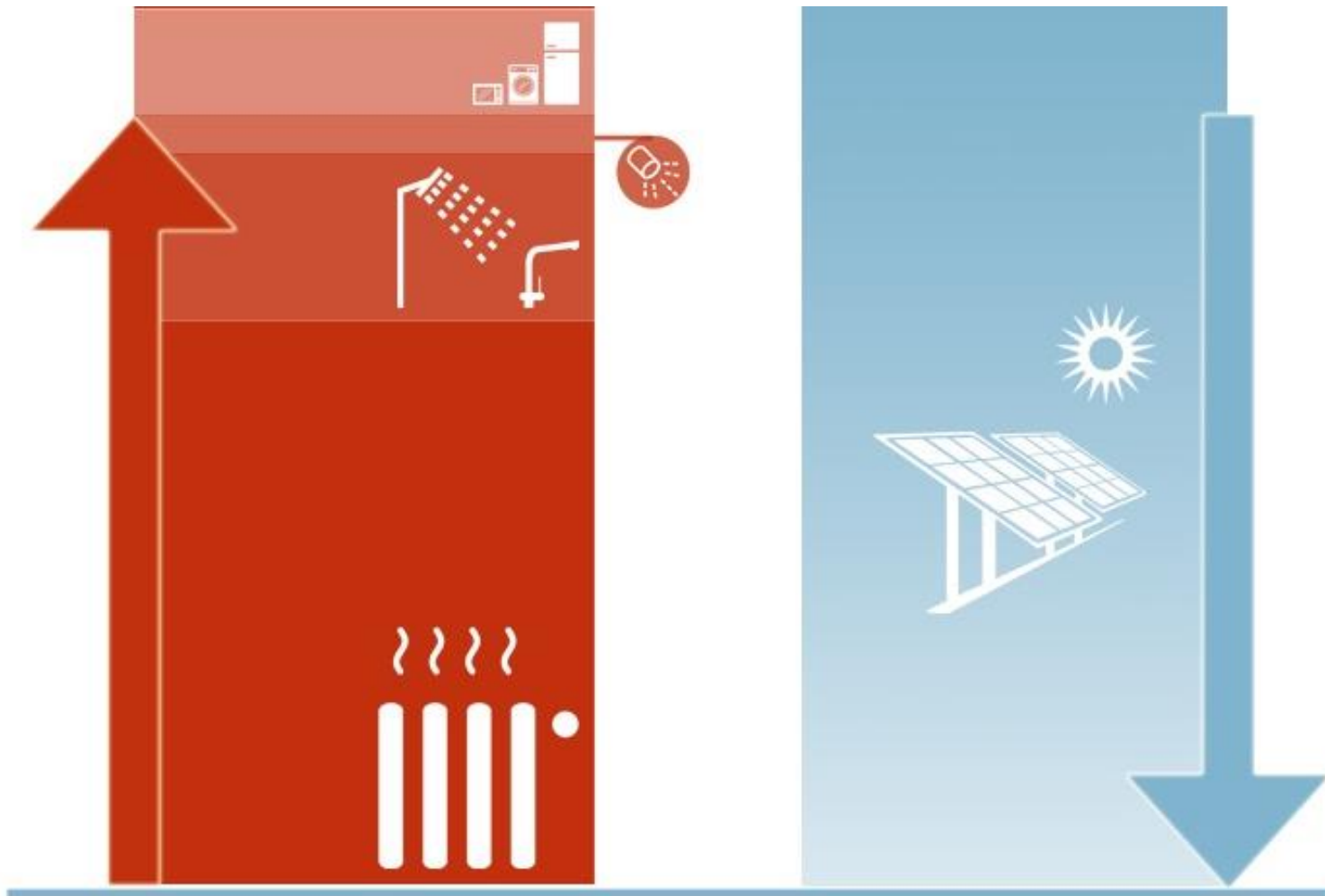
# Carbon or Energy?



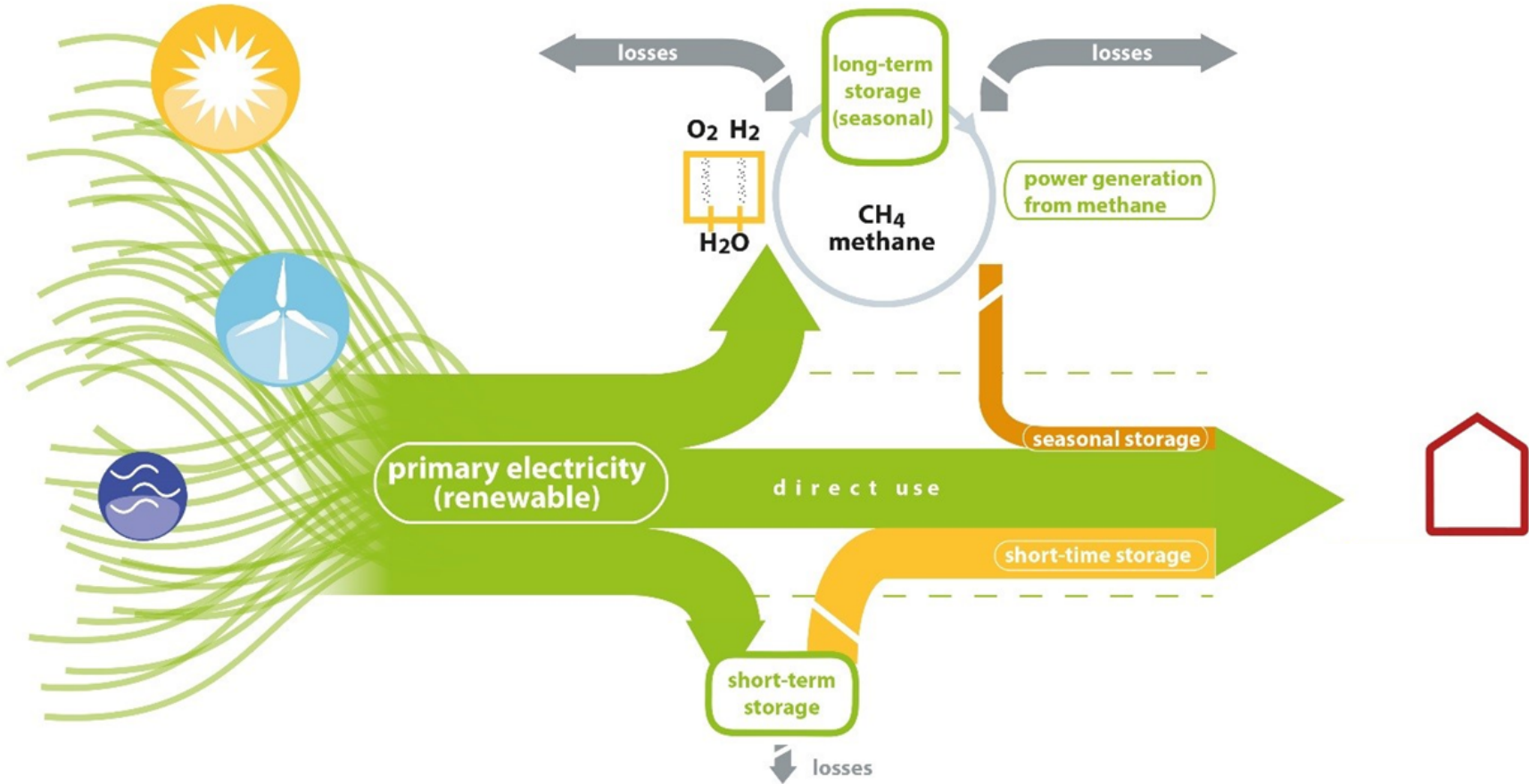
# What is net zero?



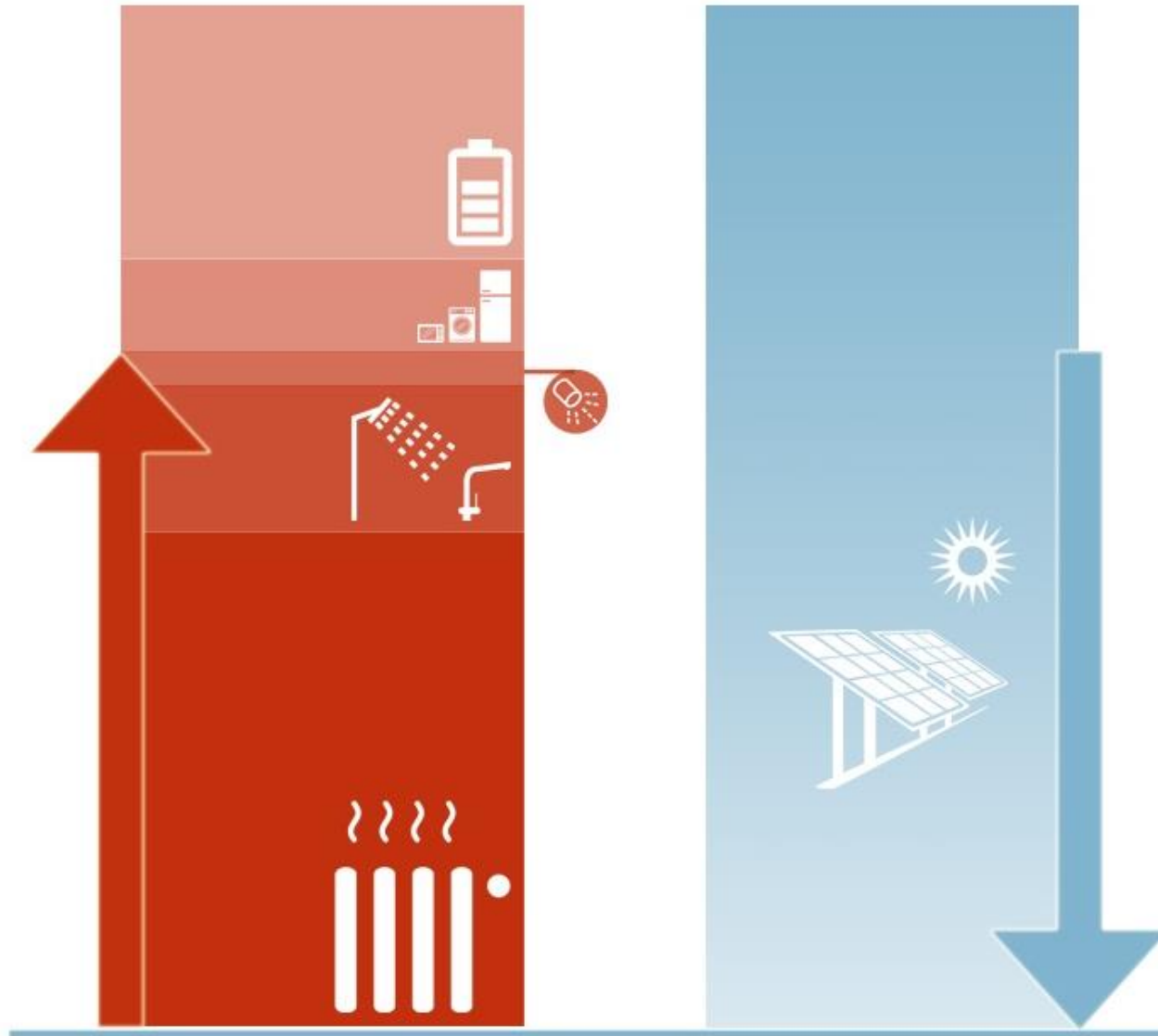
# What is net zero?



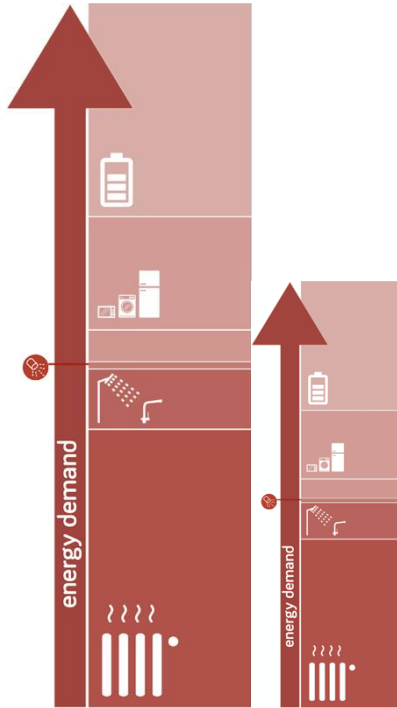
# The future nirvana ...



# Actual Net Zero ...



# The impact of higher demand ...



High Demand equals:

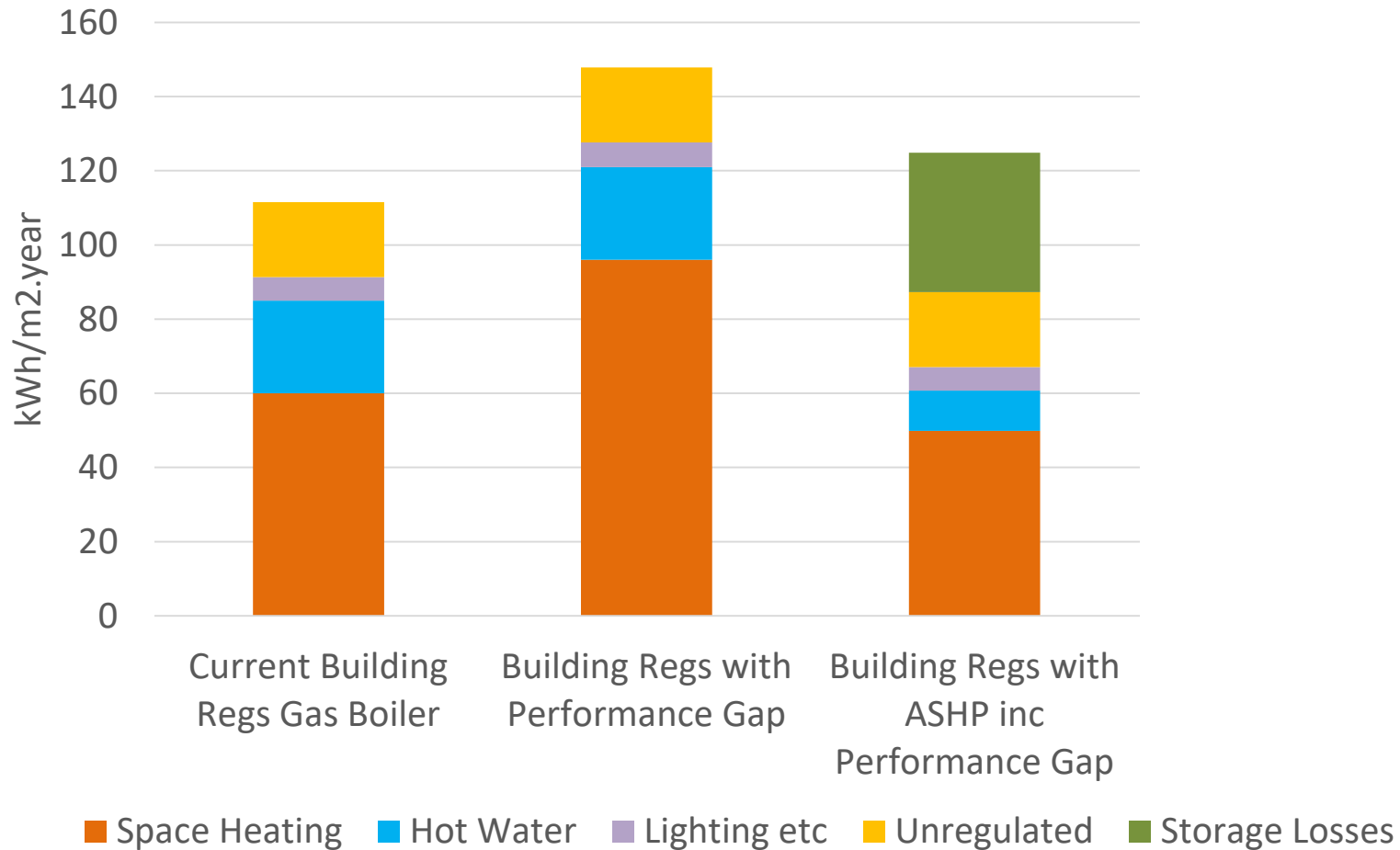
- More Storage required (£££)
- More storage losses (%%)
- Increased grid capacity (££)
- Higher Peak Load (££)
- More renewables (£££)
  
- Achievable???

# Advancing Net Zero

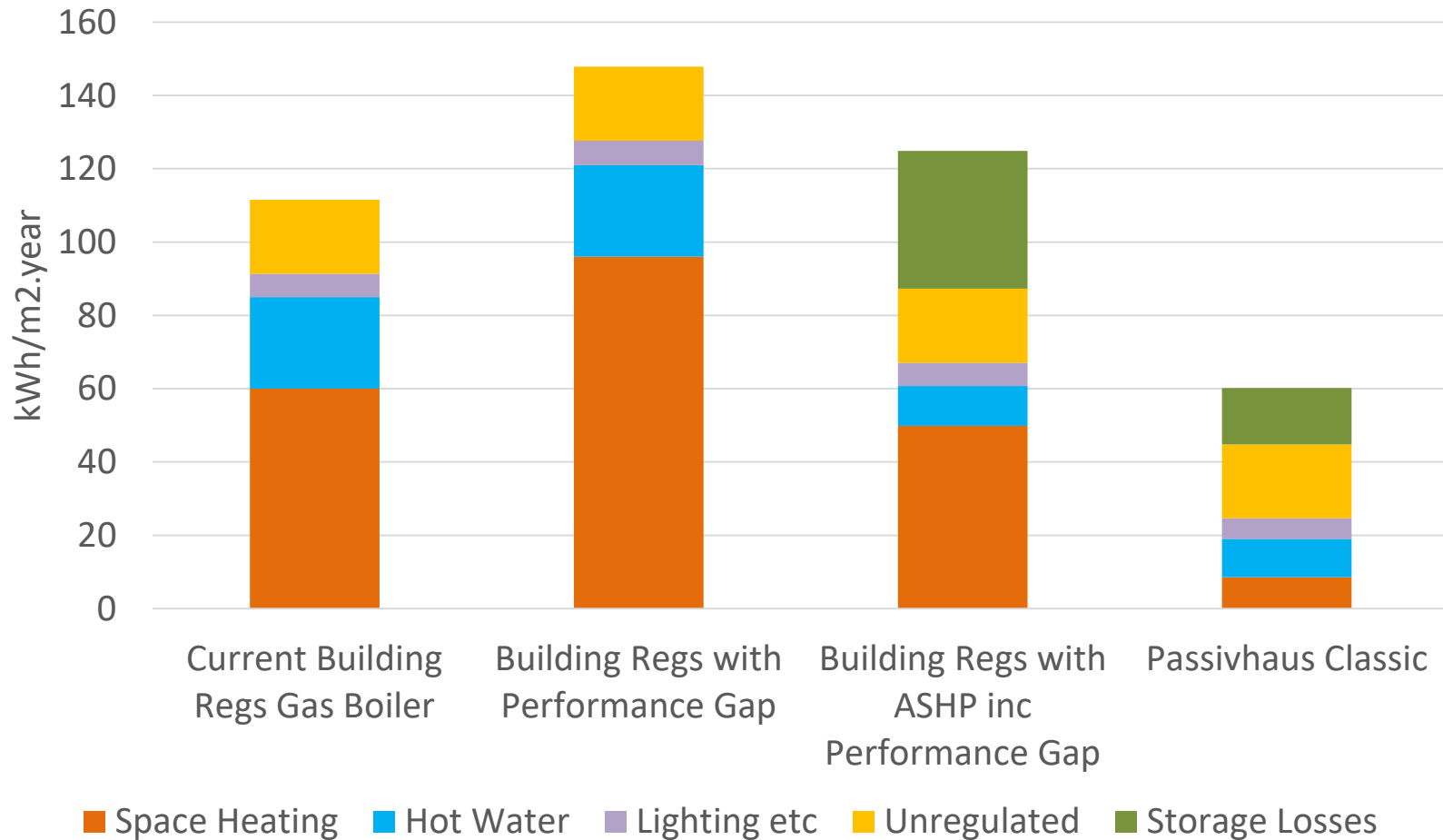


- What is net zero?
- Where are we now?
- So how could we do this?

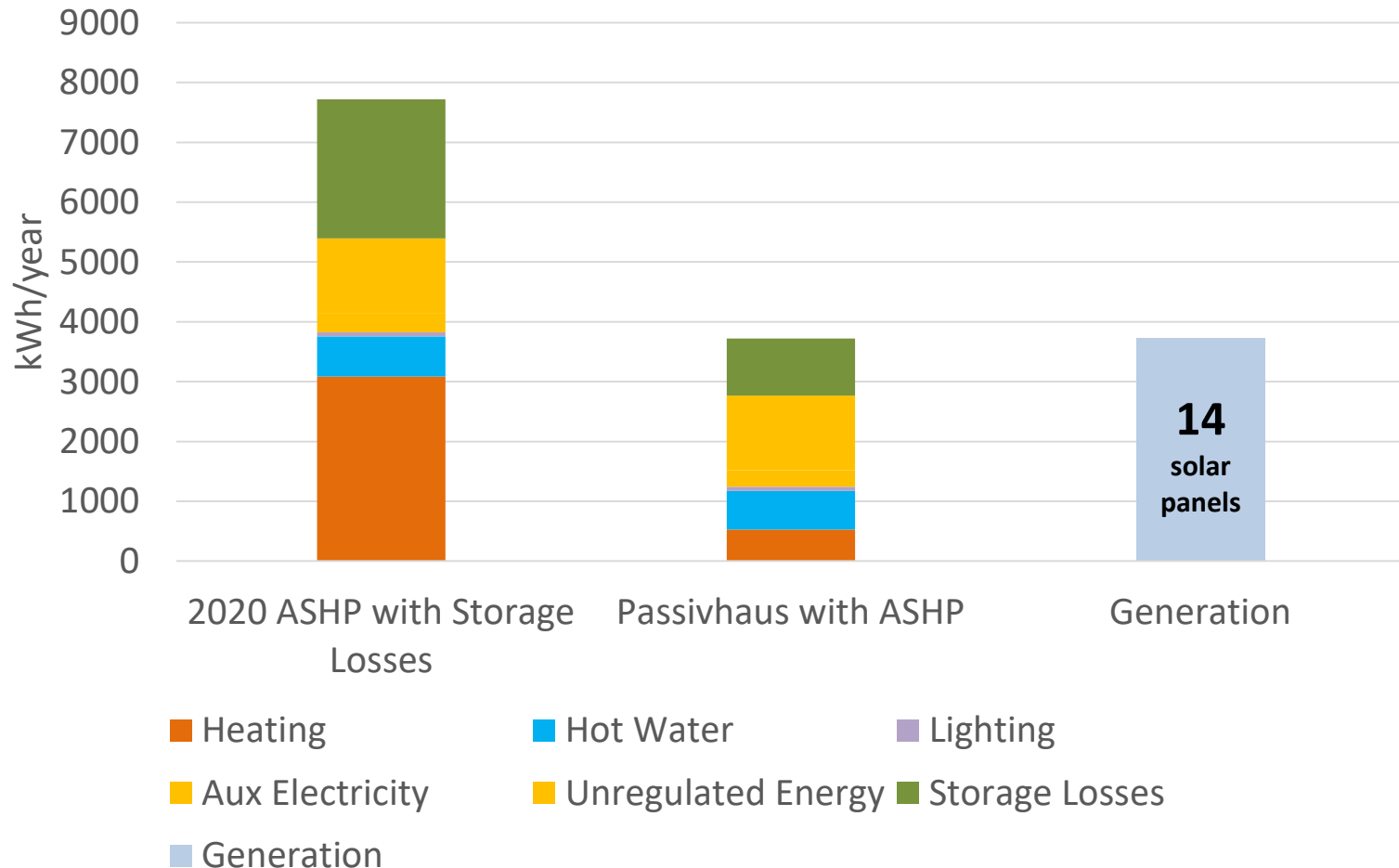
# Where are we now?



# Where are we now?



# What does that look like?

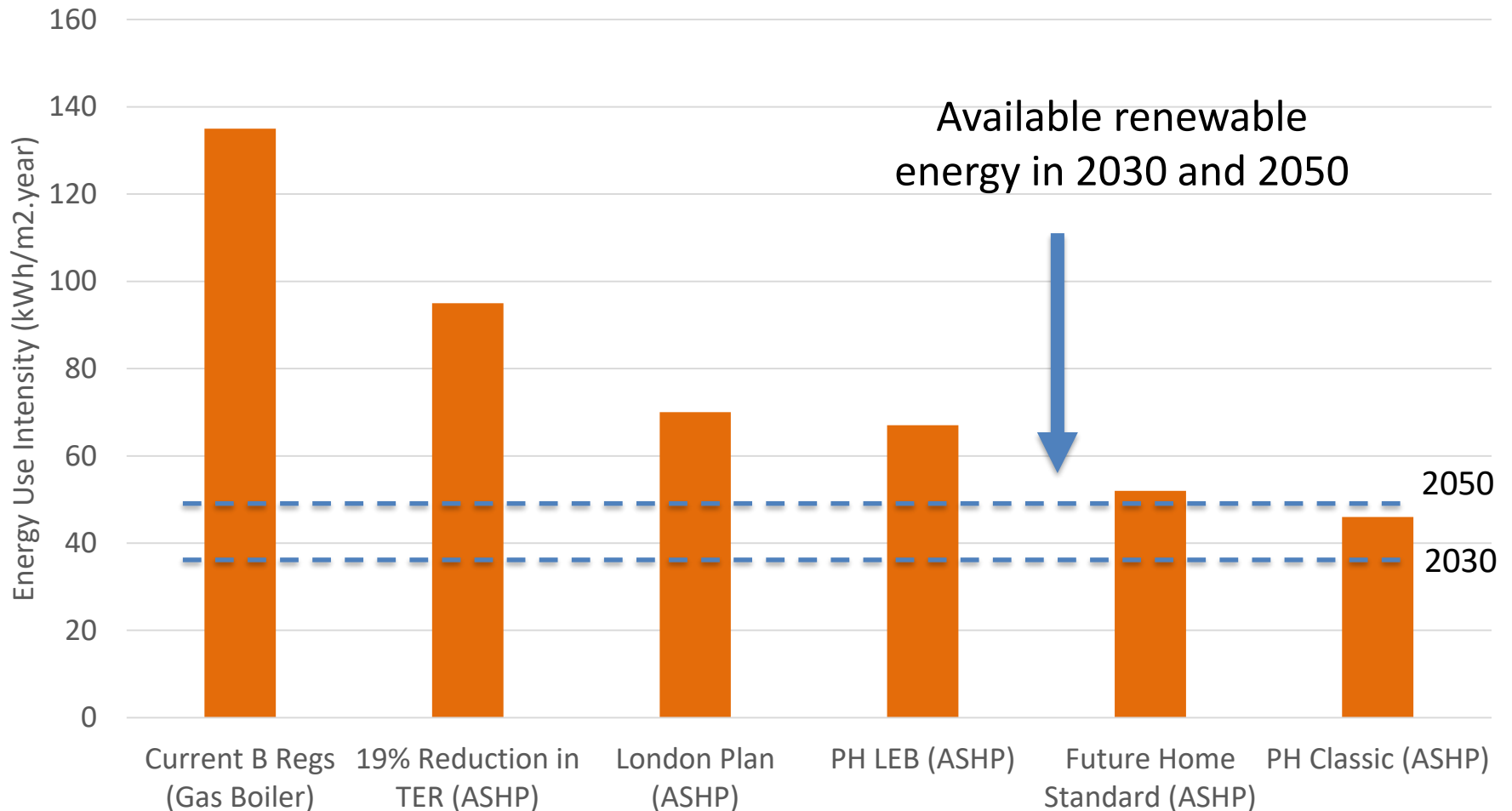


68m<sup>2</sup> dwelling with an Air Source Heat Pump (ASHP)

# What about some other standards?



## Energy Use Intensity (EUI)



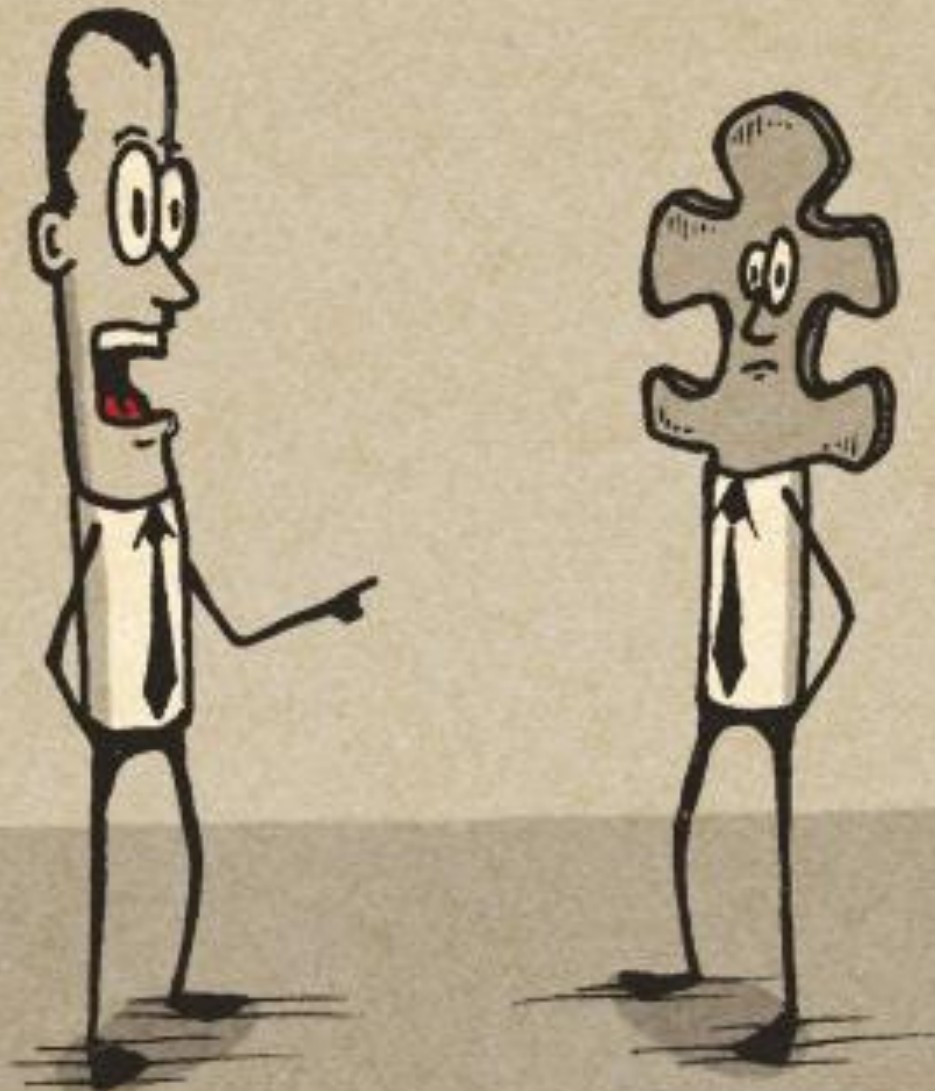
Note: Storage Losses not included

# Advancing Net Zero



- What is net zero?
- Where are we now?
- So how could we do this?

You look puzzled.



# So how could we do this?



- We have to be realistic
- We need to understand the problem
- We need to lobby for more renewables
- We need to plan for new technologies
- We need to spread the word
  
- We need to build homes which are as fabric efficient as possible ... as everything else then gets easier!

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