

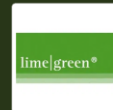
Natural Fibre Insulation – a sustainable choice

Umendra Singh (Umi),

Pavatex by Soprema Group



**NATURAL FIBRE
INSULATION GROUP**

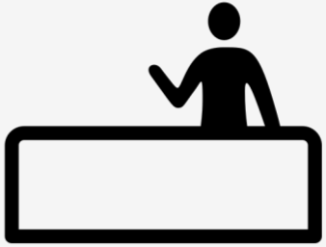


Why?

We have an important role to play in achieving UK's net zero target 2050



Take away



UK stand on Net Zero

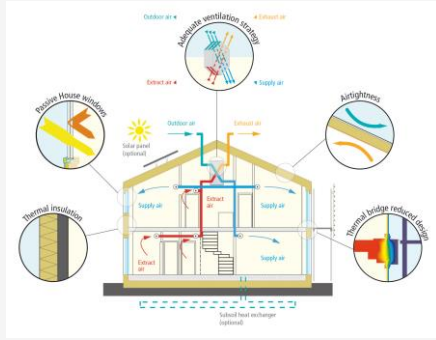


The influencers on Net Zero



How **natural fibre insulations** can help achieving a Net Zero built environment

What is Net Zero building



Highly energy efficient



Renewable
Energy

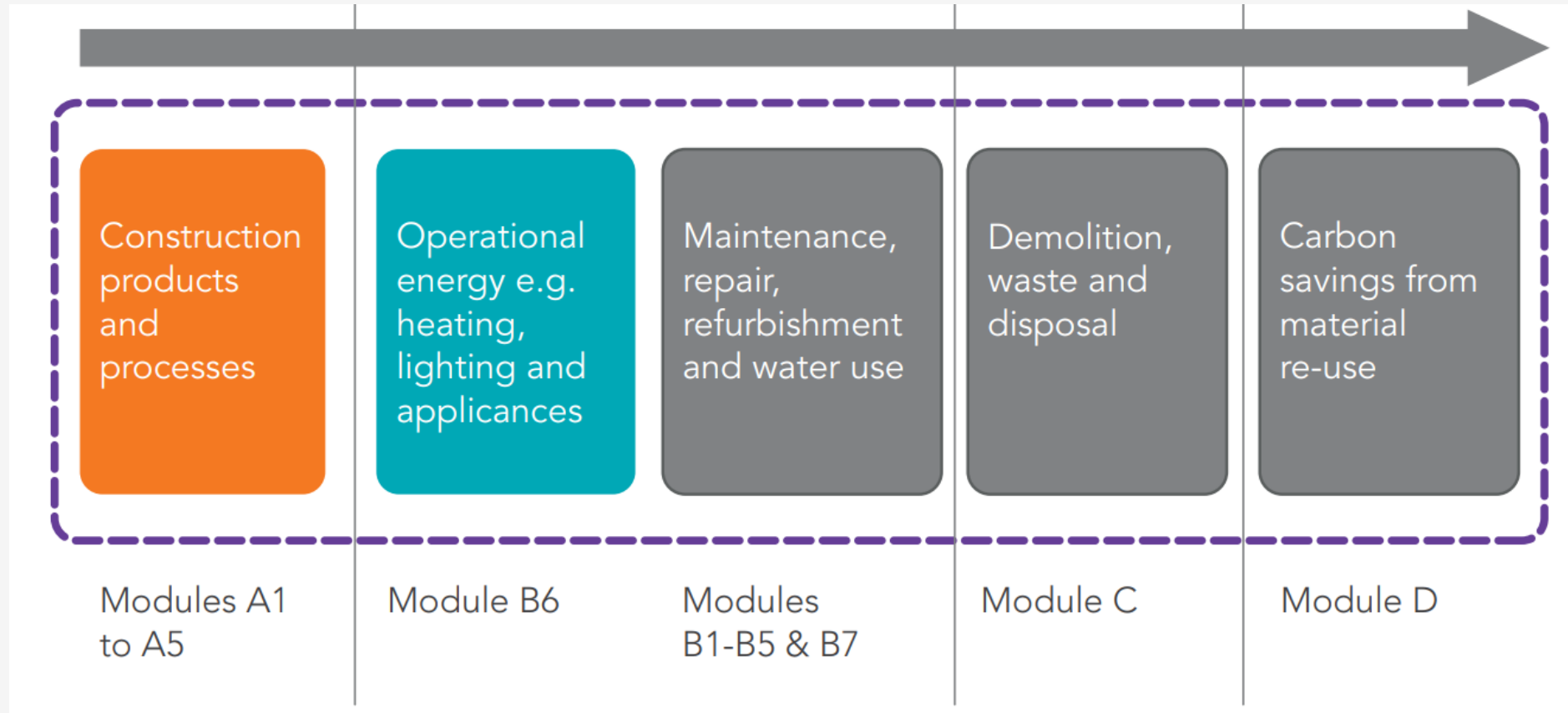


Whole life carbon



Net Zero

Whole life carbon



Total whole life carbon emissions breakdown

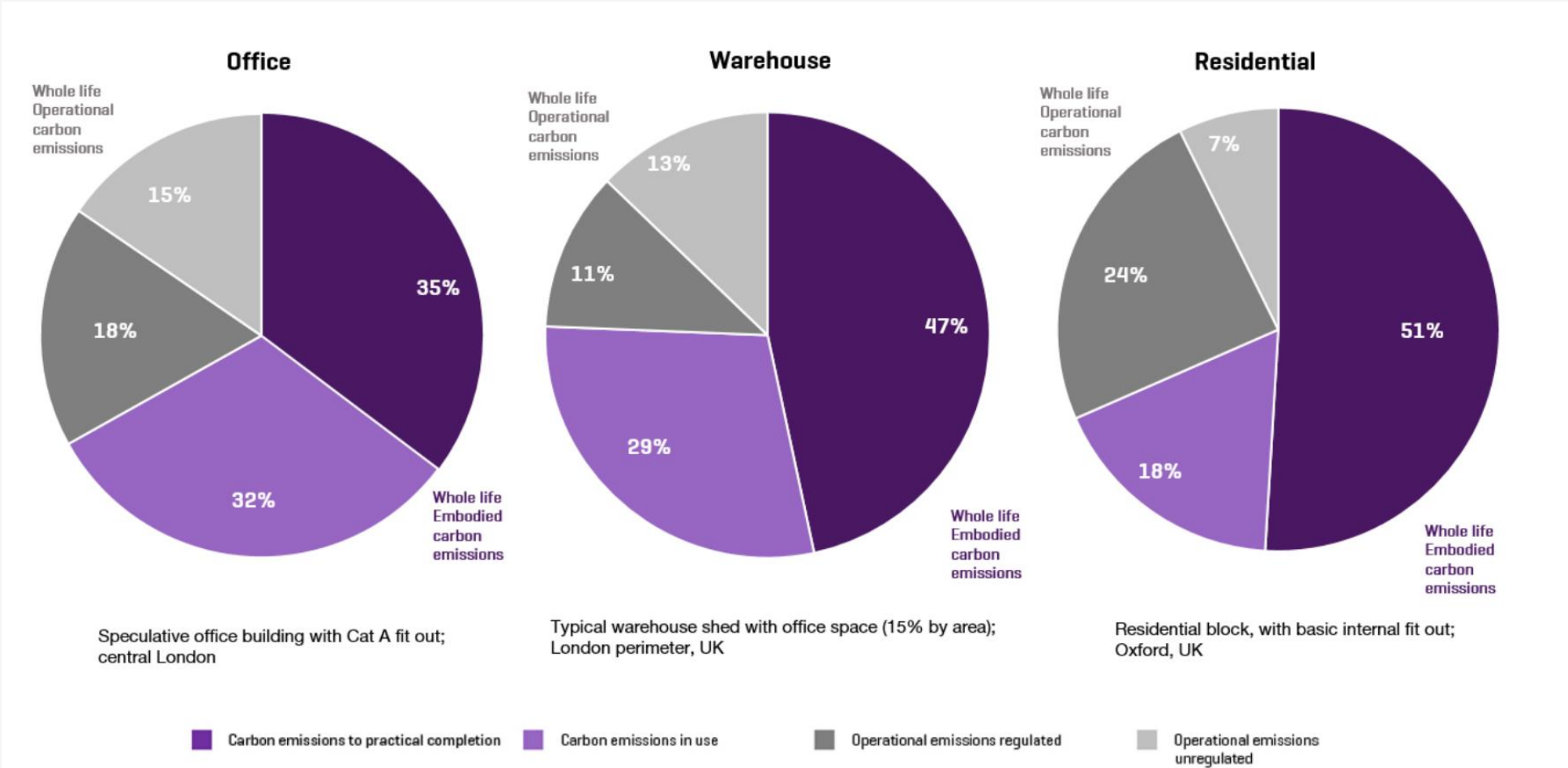
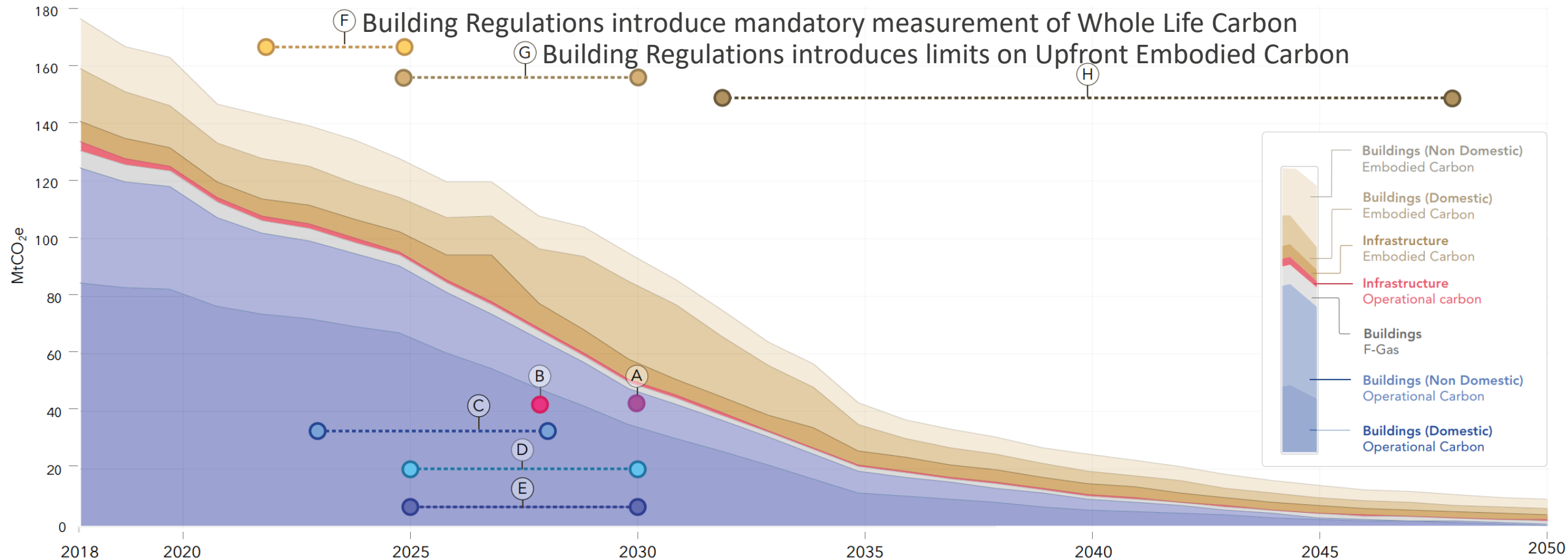


Figure 1: Total whole life carbon emissions breakdown for different building types © Sturgis Carbon Profiling

Net Zero Trajectory, 2018 - 2050



The influencers..

MAYOR OF LONDON

THE LONDON PLAN



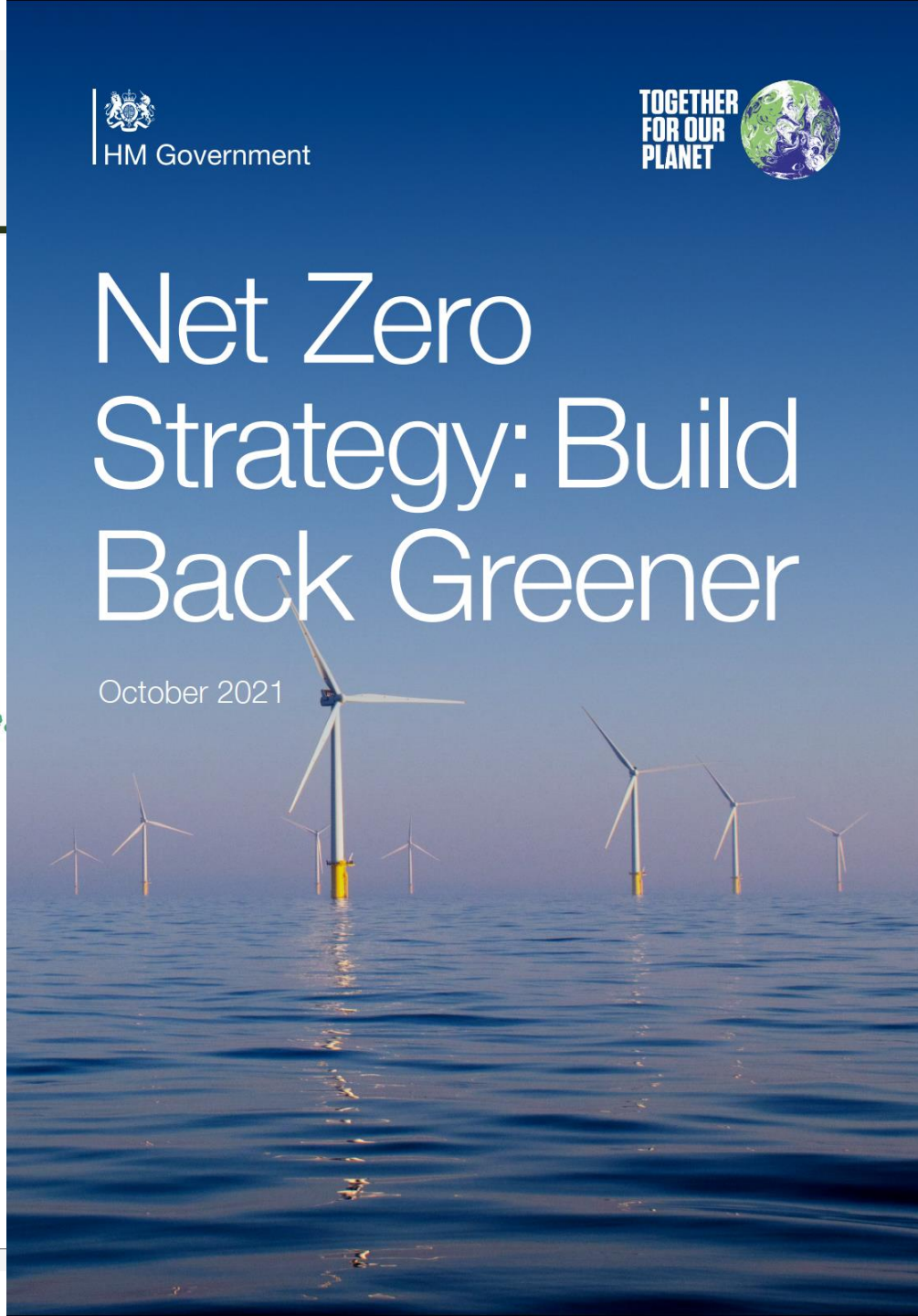
THE SPATIAL DEVELOPMENT
STRATEGY FOR GREATER LONDON

MARCH 2021



Net Zero Strategy: Build Back Greener

October 2021



Net Zero Carbon Buildings Standard

Production and how to get involved

22



Where are we ..

Building
operation



Operational
energy e.g.
heating,
lighting and
appliances

Building Regulation

- APPROVED DOCUMENTS (England, Wales and Northern Ireland)
- TECHNICAL DOCUMENT (Scotland)

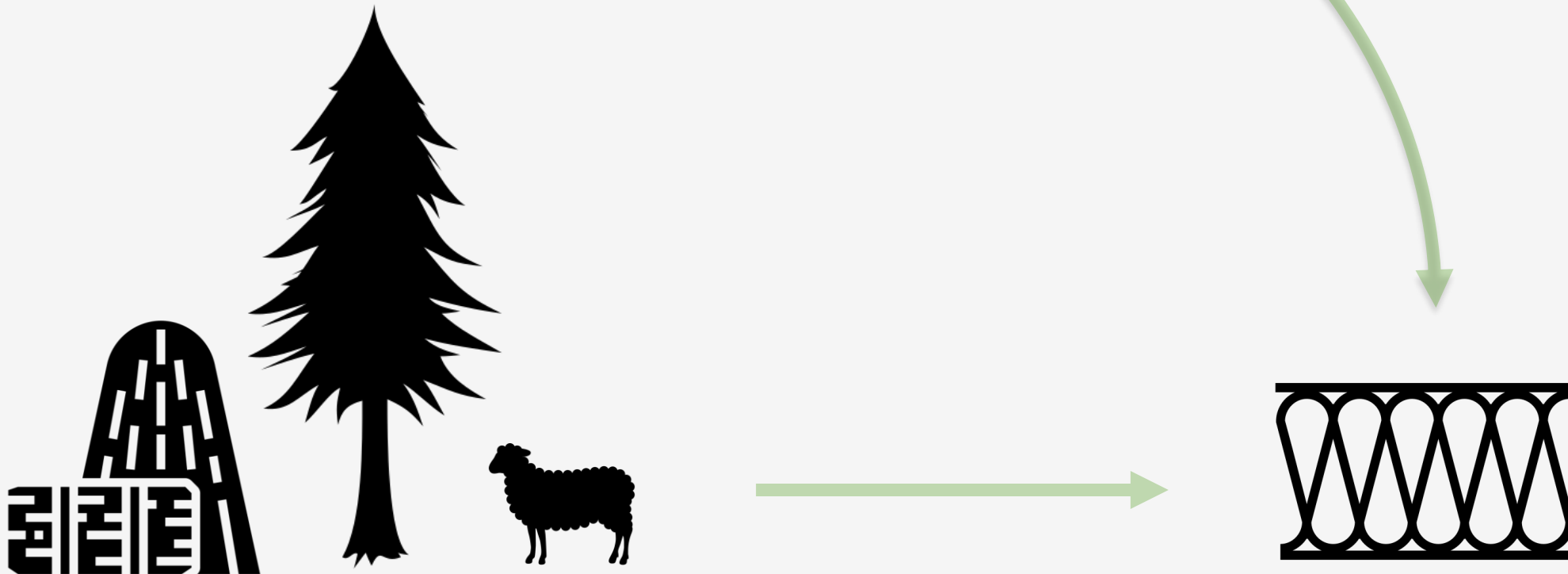


Module B6

What we need?

“Meeting the needs of the present without compromising the ability of the future generations to meet their own needs”

Brundtland Report, 187



Natural fibre insulation



Cotton/Denim



Woodfibre



Cork



Cellulose



Straw

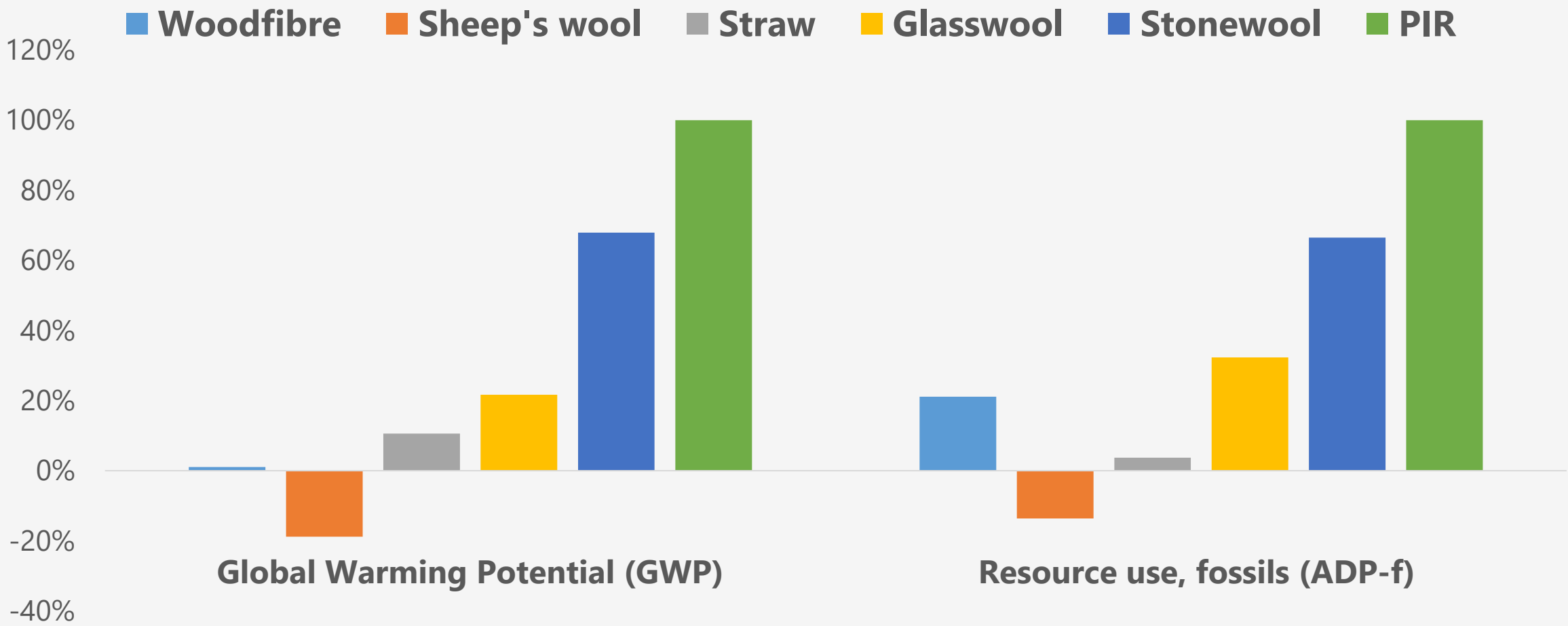


Sheep Wool



Hemp

The comparison, at 0.15 U-value



Thank you

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