

re.c.be

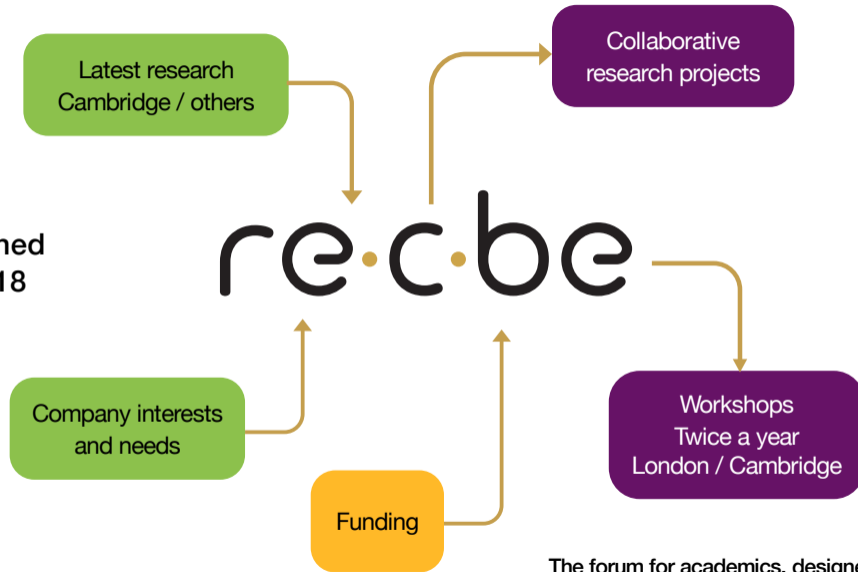
RESOURCE EFFICIENCY
in Construction and the Built Environment



Resource Efficiency Collective is a research initiative at Cambridge University. Together, we seek answers to a challenging question: how can we deliver future energy and material services, while at the same time reducing resource use and environmental impact?



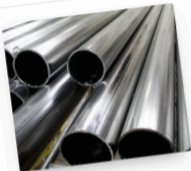
Launched
in 2018



The forum for academics, designers, engineers,
contractors, clients and policy makers ...



Projects



Exergy calculator



Jonathan Cullen
September 15, 2020

The use of energy and materials in modern society is associated with greenhouse gas (GHG) emissions that exacerbate climate change. To reduce emissions, a combined energy and material...



Resource Efficiency in Construction and the Built Environment (RECBE)



Michal Dzwonlok
August 24, 2020

Nearly half of the UK's carbon emission are linked to the construction and operation of the built environment, and this figure excludes the embodied carbon in the materials...

PROJECTS

Resource Efficiency in Construction and the Built Environment (RECBE)



Michal Dzwonlok
August 24, 2020



Nearly half of the UK's carbon emission are linked to the construction and operation of the built environment, and this figure excludes the embodied carbon in the materials used in construction. The challenge to reduce emissions from the built environment is immense: buildings have long lives locking in use-phase performance over generations; new build rates are at only 1% per year compared to the existing building stock requiring difficult retrofit options; design and construction processes are complex involving numerous materials, products, trades and decisions. And all the while, consumers continue to

Targeting Zero

14.00 Welcome - Jonathan Cullen (University of Cambridge)

14.05 – 14.20 – John Orr: “IStructE’s embodied carbon calculation principles for structural engineers”
(University of Cambridge)

14.20 – 14.35 – Danielle Densley Tingley, Maud Lanau, Charles Gillott: “Circular Economy Research at the University of Sheffield” (University of Sheffield)

14.35 – 14.50 – Andrew Mullholland: “The Low Carbon Concrete Technologies Route map” (AMCRETE)

14.50 – 15.05 – Q&A (the best option via zoom chat or by raising your hand)

15.05 – 15.20 – Jonathan Cullen / Michal Drewniok: “Plastic (in construction) matters!”
(University of Cambridge)

15.20 – 15.30 – Next steps

(Zoom allows up to 100 participants)

talks

Q&A

talk

next steps

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