From the Lab to the Construction Site

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Energy use & CO2 emissions rising

Source: Energy Outlook 2030
Energy Use

Industry 25%
Buildings 45%
Transport 30%

Source: Baker and Steemers
RESEARCH INTO VENTILATION STACKS
Simple Naturally Ventilated Space
Contact Theatre
Contact Theatre, Studio

Concept - displacement ventilation when warmer inside
Multiple Stacks

Area of lower aperture

Height of stacks
Temperatures in some of the stacks are close to outside temperatures

Evening/Morning Warmer inside than outside

Stack 3 inflow? Stack 2 also inflow later?

Varying Behaviour
Ventilation modes are not always as expected....
Natural Ventilation

e-stack, how natural ventilation should be.

Low Energy
Natural Ventilation
Parties Involved

UNIVERSITY OF CAMBRIDGE

bp

MIT

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From idea to product
Options

- Cash
- R&D facilities
- Sales channels
- Regulation knowledge
- Lobbying

- Maniacal focus
- Nimble
- No dead wood
- 24 hrs/day