





MASON BROS

The role of LCA in driving down emissions in the built environment

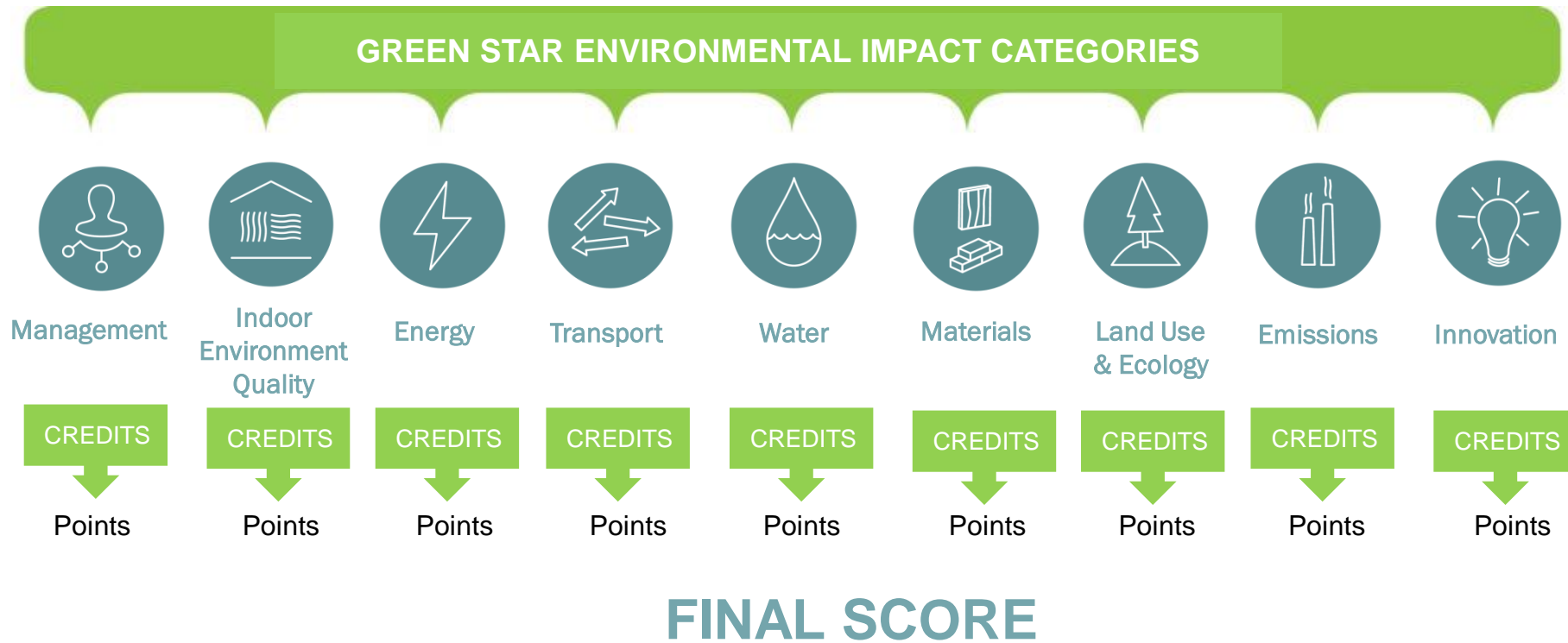


NZGBC – What we do

- Advocate
- Train
- Benchmark

	BUILDINGS	HOMES
NEW / FIT OUTS		
EXISTING		

Green Star



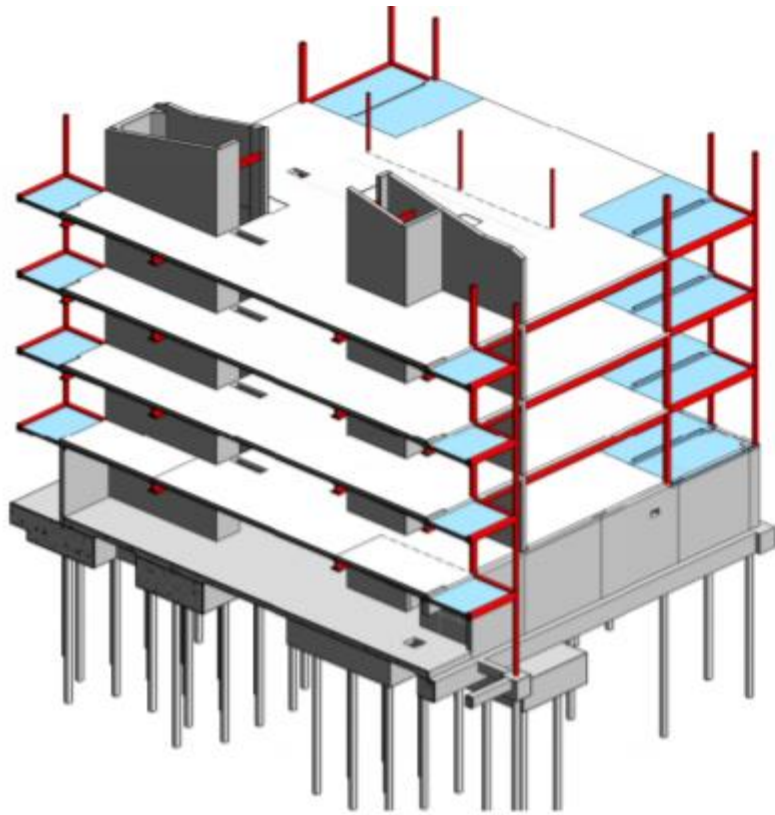
Green Star – Materials points

Air New Zealand to build world's largest single arch timber aircraft hangar

John Anthony • 15:04, Apr 11 2019

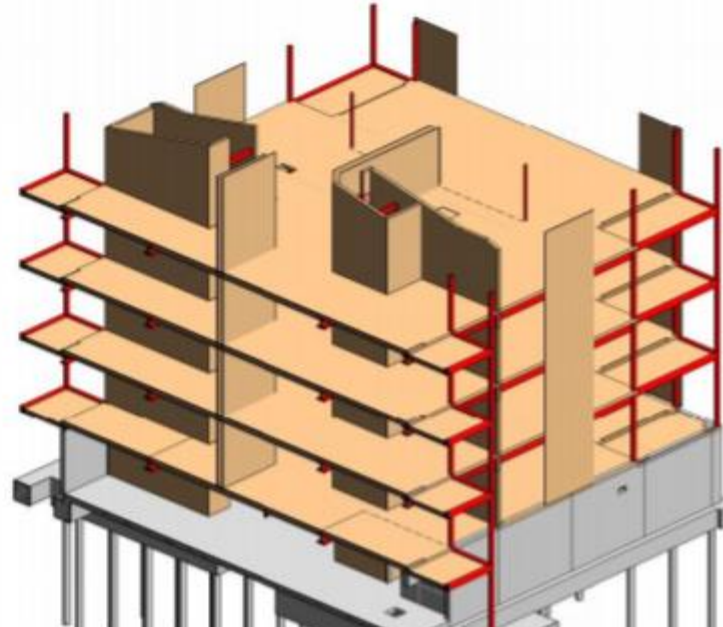


Green Star – Lifecycle analysis

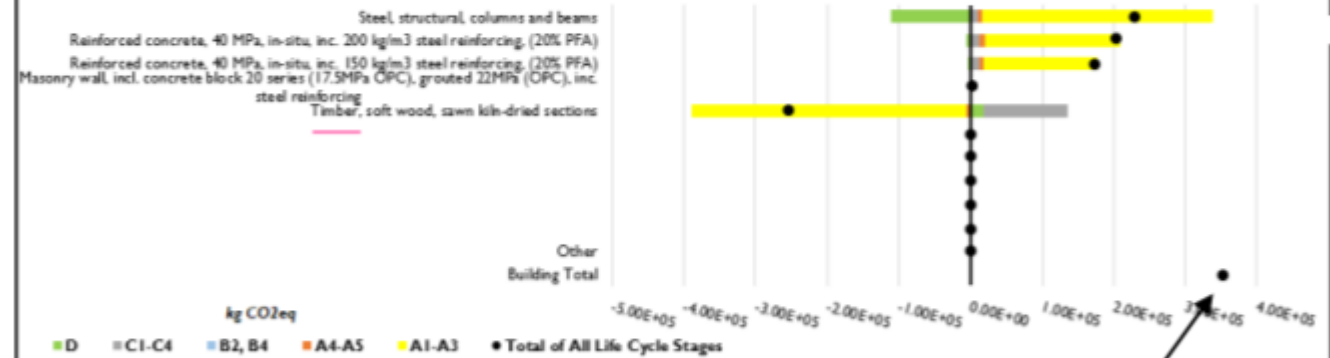


21/03/2019

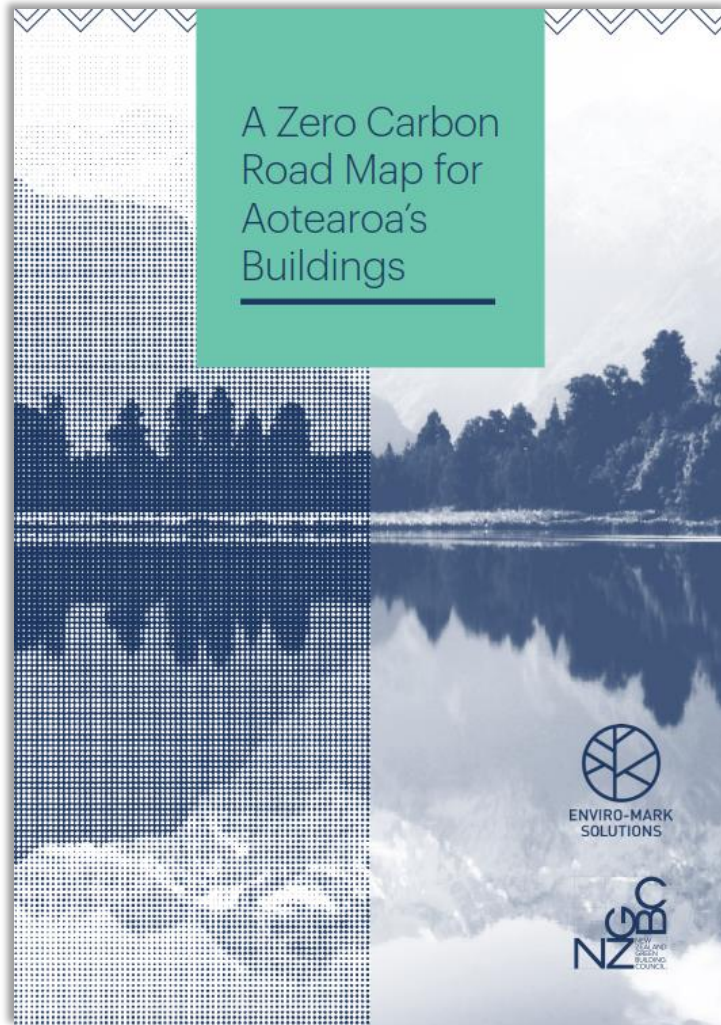
Iso. Cross-section



Graph D: Potential Environmental Impact of Building Materials During Life Cycle Stages A1-A3, B2, B4, C1-C4, & D.



Roadmap and Standard



Roadmap and Standard

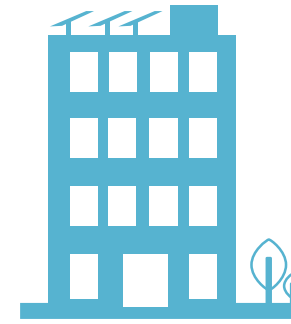


World Green Building Council Ambition



New buildings

**Operational Emissions
Construction Emissions**

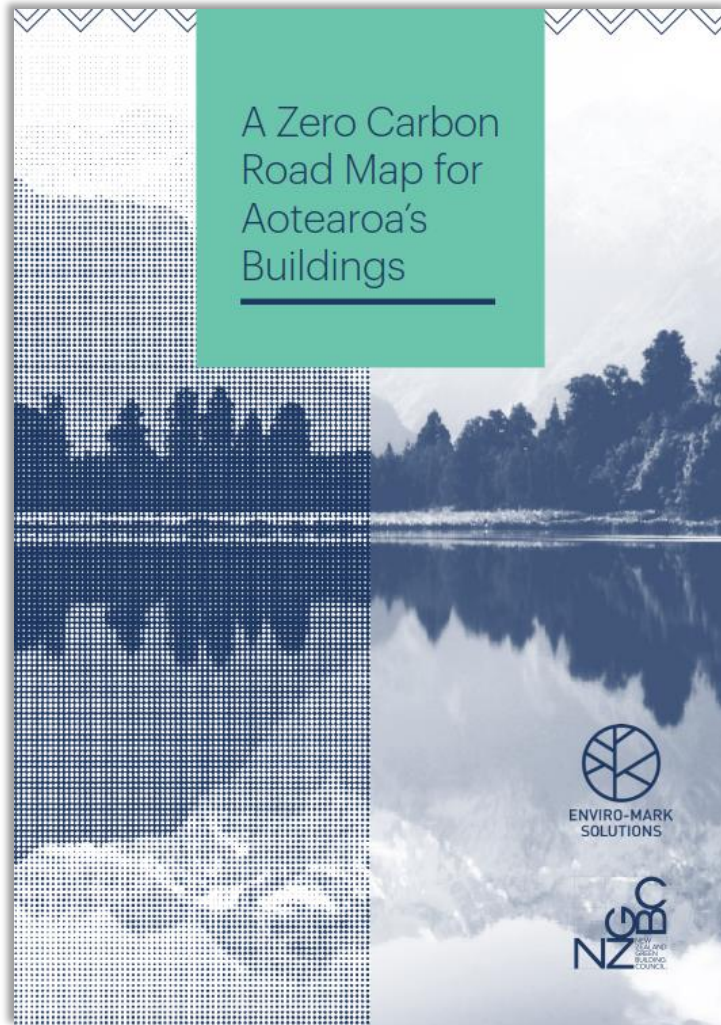


Existing buildings

Operational Emissions ONLY



Roadmap and Standard



- Large property companies rate to carboNZero
- Building code to transition to zero carbon by 2030
- Energy labelling on sale or rent
- Government to procure green

The Future

Voluntary Action

Green Star
Homestar
Net Zero Carbon

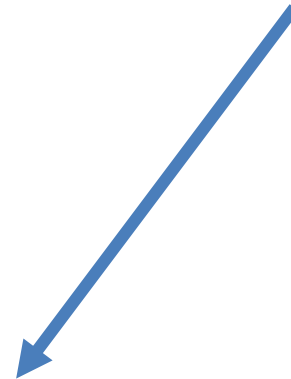


Mandatory for Government contracts

Green Star
Homestar
Net Zero Carbon



Mandatory for Everyone



Operational Carbon

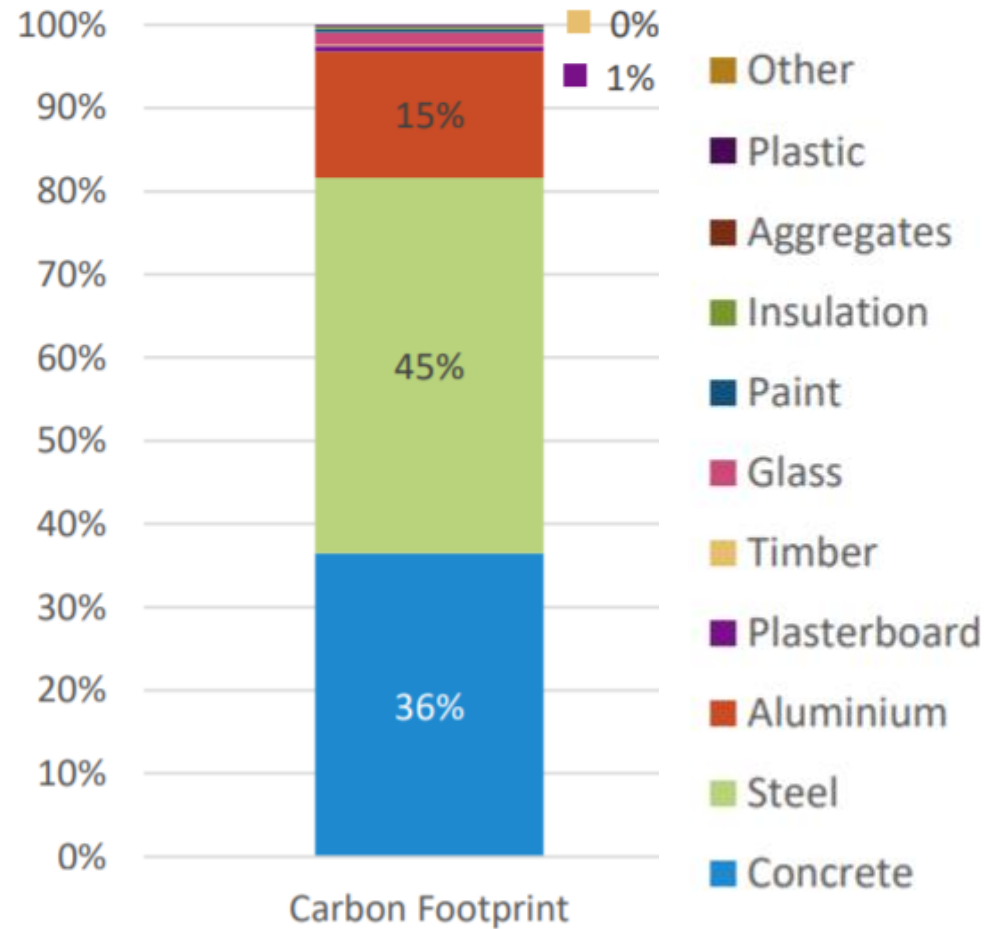
Building Code
Energy labelling

Embodied Carbon

Regulation of industry
ETS



The Future



Embargoed until 00:01 on 19 August 2019

thinkstep ANZ

Under construction

Hidden emissions and untapped potential of buildings for New Zealand's 2050 zero carbon goal

On behalf of NZGBC

Image: Shutterstock

THANK YOU!

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