NZIF

12 SEPTEMBER 2022





Nelson Airport







90 Devonport Road





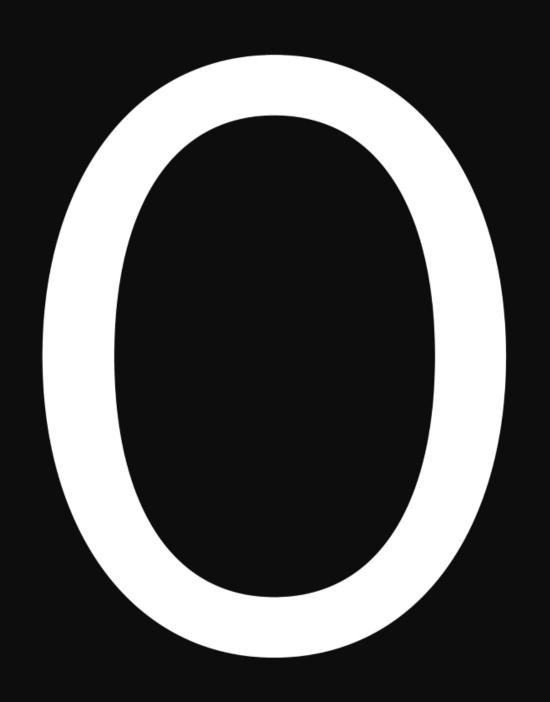




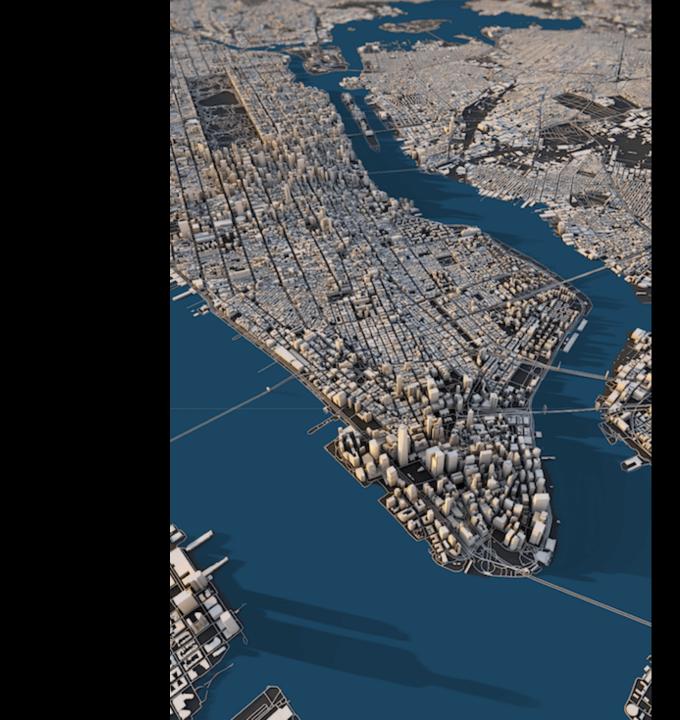
Site 6

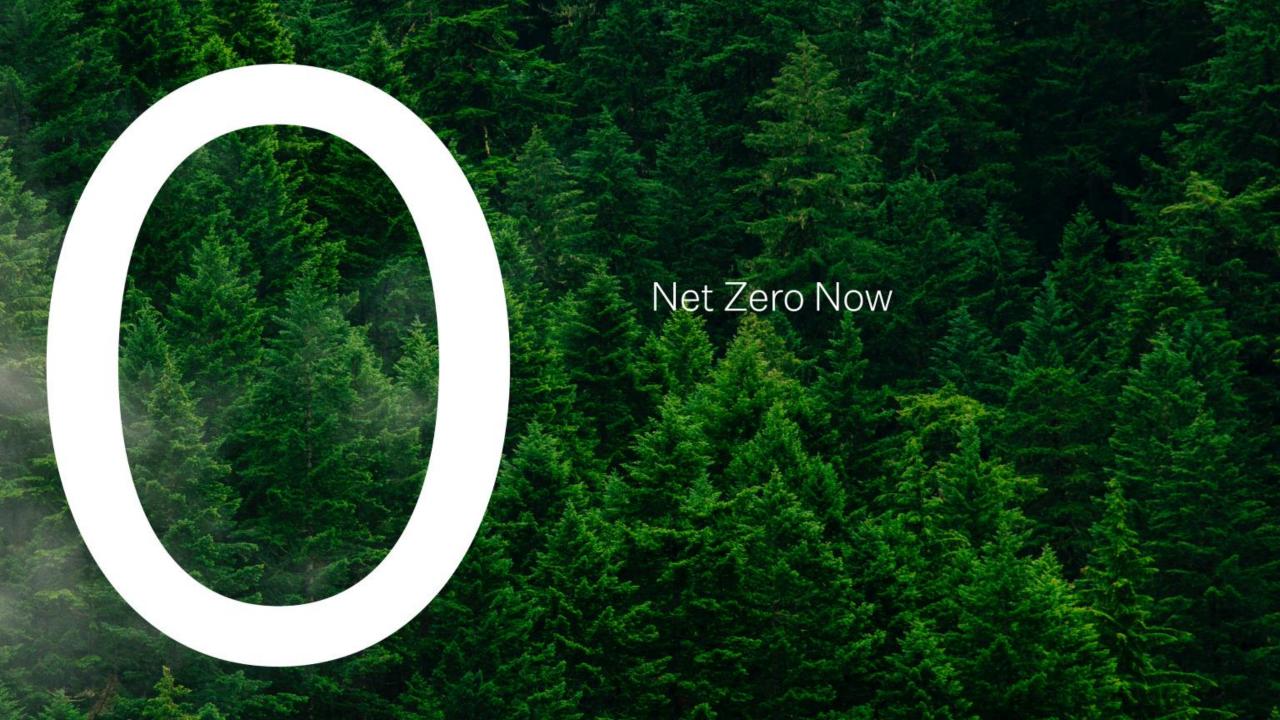






Join us on the path to Net Zero 2050





ORIGINAL

946kgCO2e/m²

ALTERNATIVE

661kgCO2e/m²



Project targeting
Zero Carbon certification.
We provided data-informed design optioneering to manage the carbon budget alongside other project constraints.



A Net Zero apartment building in Christchurch. A concrete core is offset with mass timber structure. The energy demand is reduced through a high performance facade and offset through roof and facade mounted PV.



TOTAL

245kgCO2e/m²

A healthcare building briefed for Zero Energy Certification and a 'Timber First' approach to the design led to a whole of life climate 'positive' result.



KGCO2E/M²



The hottest new thing in sustainable building?

The hottest new thing in sustainable building is, uh, wood

The many, many benefits of using wood in place of concrete and steel.



The Centre for Interactive Research on Sustainability, at the University of British Columbia, showing off some timber.

CIRS

Architects, builders, and sustainability advocates are all abuzz over a new building material they say could substantially reduce greenhouse gas (GHG) emissions in the building sector, slash the waste, pollution, and costs associated with construction, and create a more physically, psychologically, and aesthetically healthy built environment.

The material is known as, uh, wood.

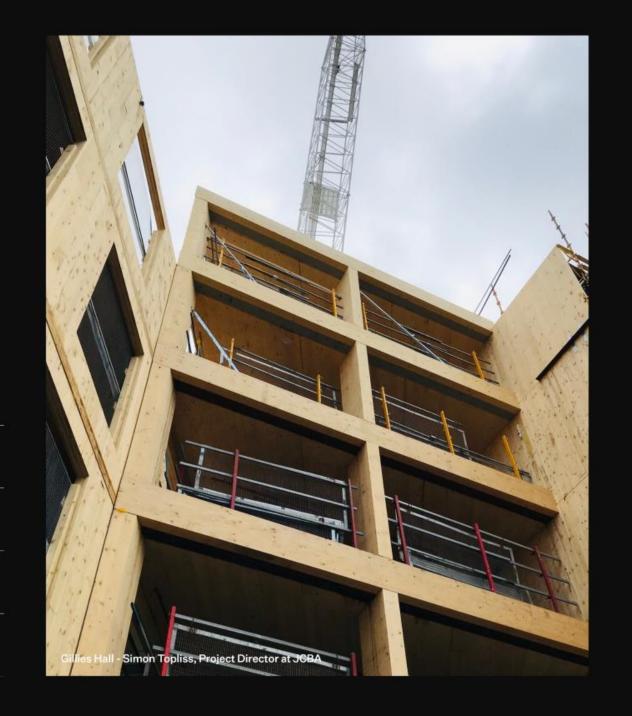
01	Reduced Carbon
02	Prefabrication
	Good for body and brain



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Potential (!) Constraints:







Lead Times Market Cost

Design Challengers:

01	Acoustics
02	Fire Engineering
03	Coordination

