



'Green Star NZ' a way of comparing office buildings

by Chris Wood





What will be covered

- What is Green Star
- How it works
- Who's been involved



 **towards sustainable practice**
ENVIRONMENTAL, SOCIAL, ECONOMIC



Why sustainable buildings?

40% of all energy consumption (OECD)
contribute 50% waste

consumes 1/4 of all the wood harvested
in the world

produce 35% of greenhouses gases CO₂
(OECD)

consume 40% of raw materials use
globally (3 billion tons annually)



MfE contracted NZGBC

The project's purpose is to identify, and then develop a project plan to implement, a sustainable building assessment scheme which is appropriate for New Zealand's specific requirements and will be available to the commercial office building sector.



Why public buildings?

- Government staff work in buildings (17,480 in Wellington alone)
- Government is a major player in New Zealand construction sector (estimated at >30%)
- Ability to influence the commercial building sector
- How to ensure best practice

Purpose of the rating system

Define green building by establishing a common language and standard of measurement

Promote integrated, whole building design

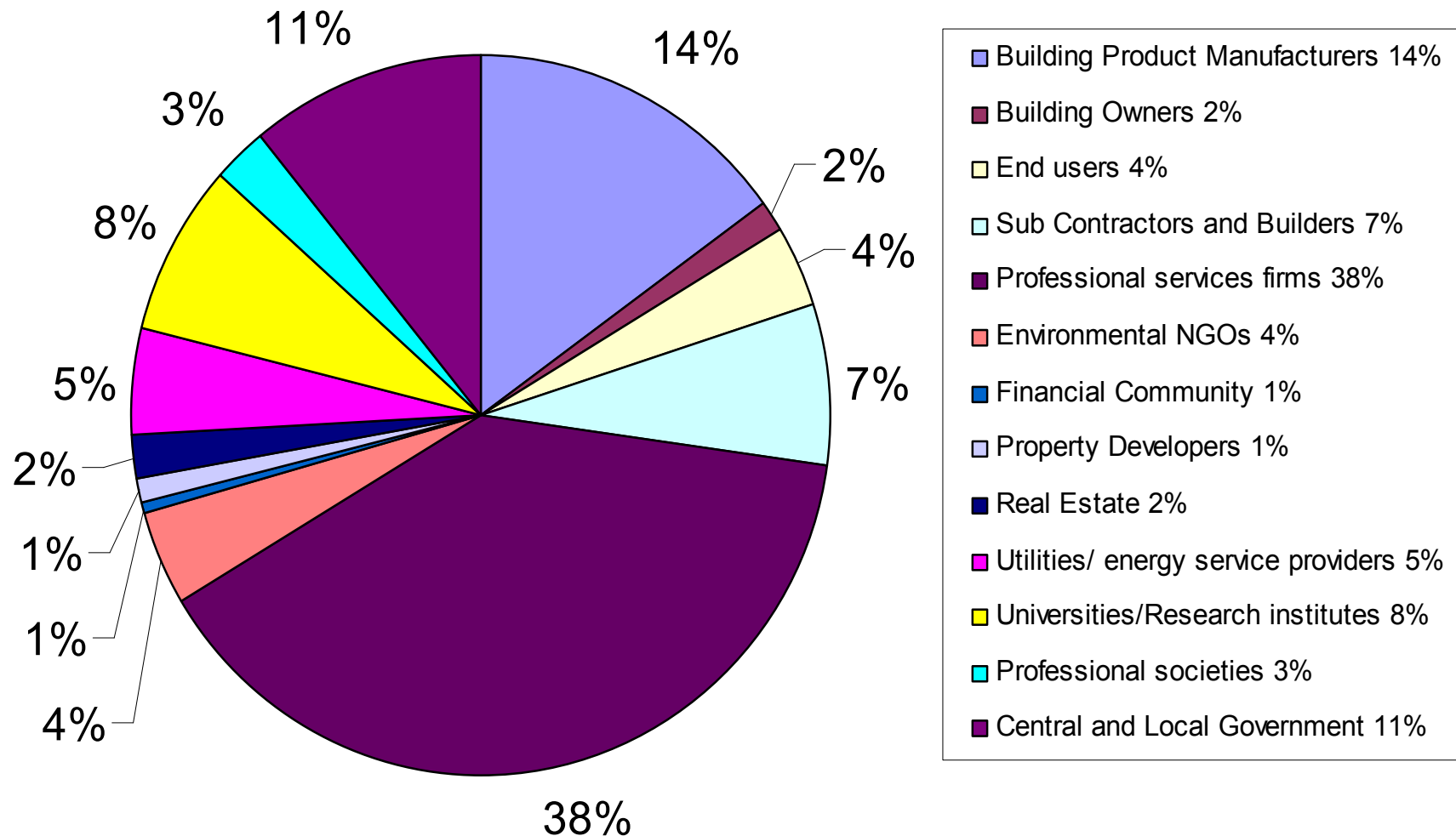
Raise awareness of green building benefits

Recognise and reward environmental leadership

Transform the built environment to reduce the environmental impact of development

Public Meetings

Representation by Industry Sector

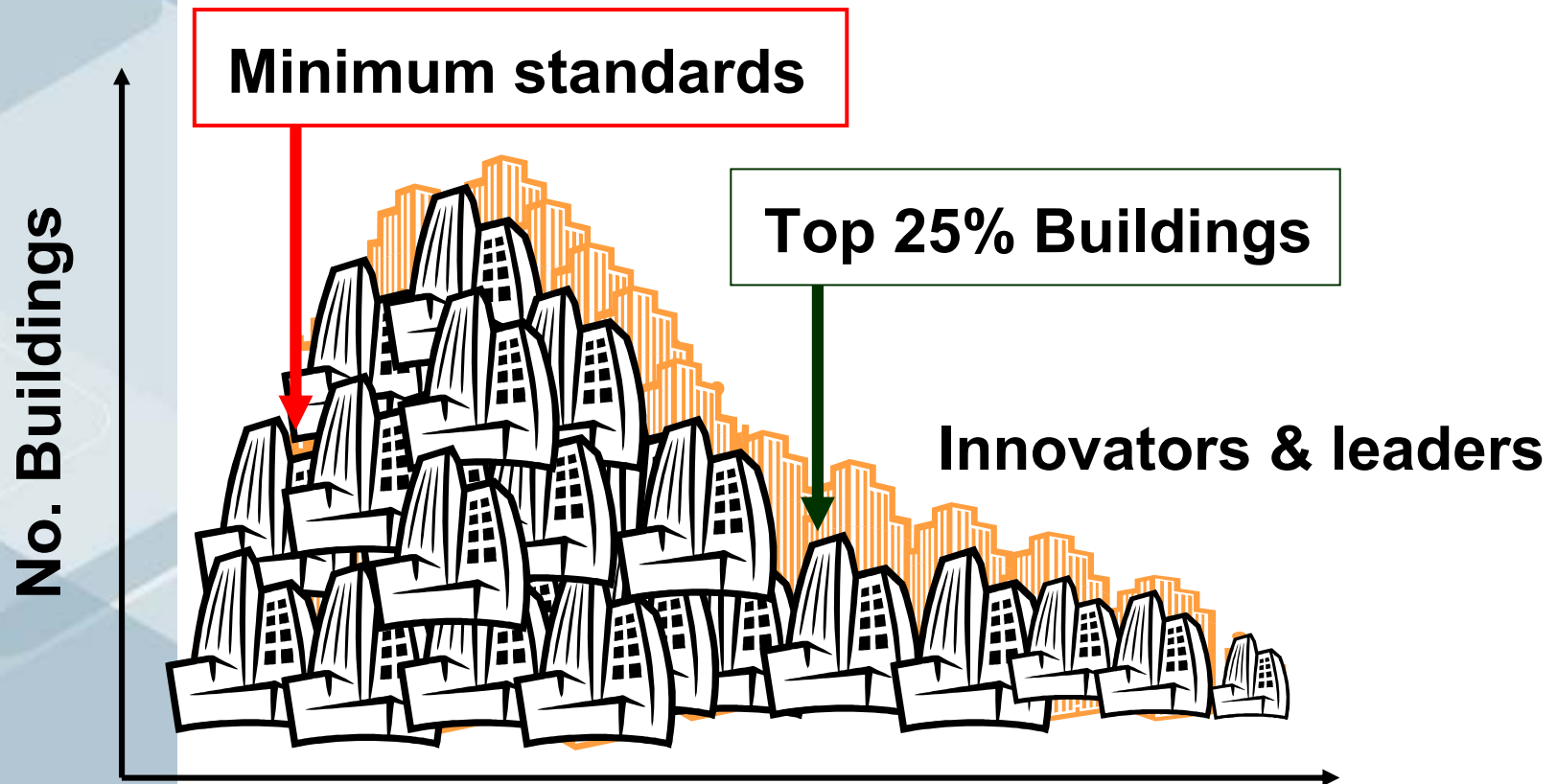


Working Group

Table 1.1: Project Working Group Members

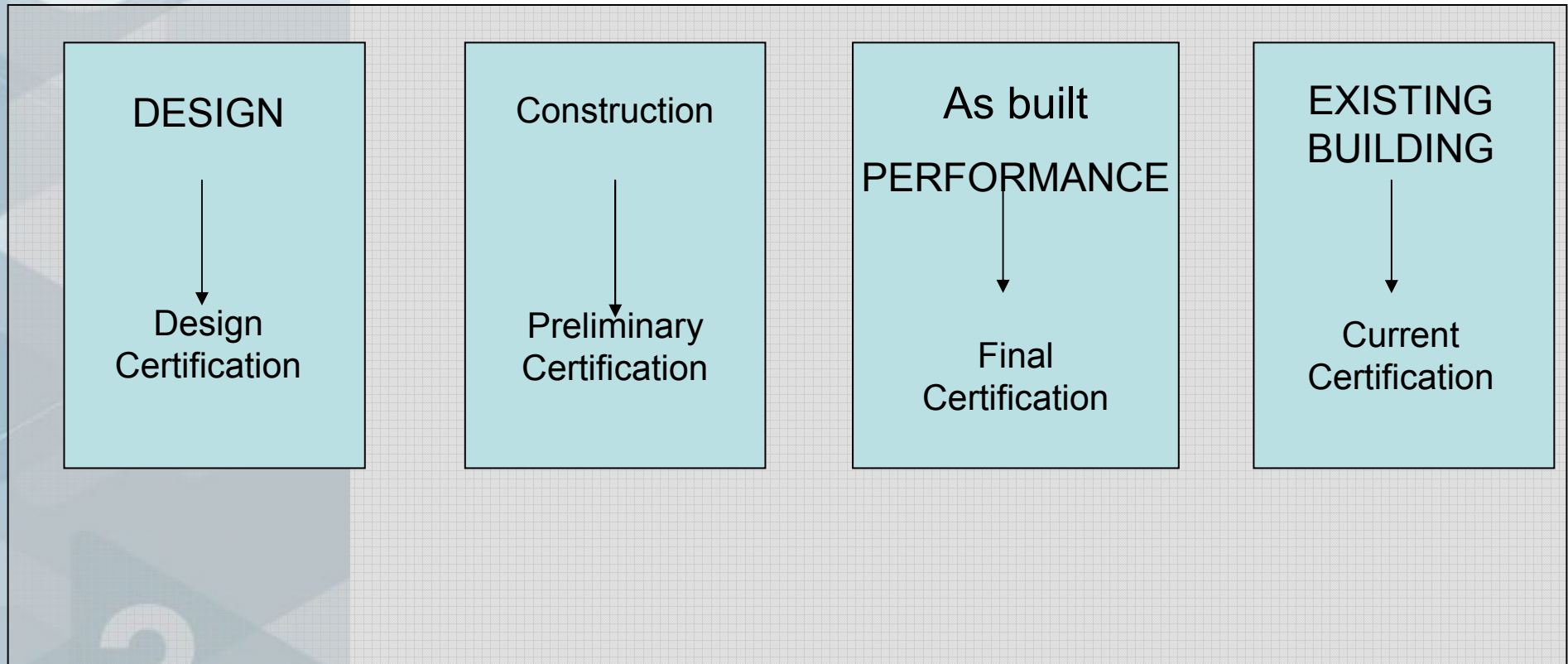
Jane Henley	NZGBC	NZGBC Establishment CEO
Michael Field	URS New Zealand Ltd	Technical Project Manager
Wayne Sharman	Building Research	Working Group Member
Marko den Breems	Jasmax	Working Group Member
Chris Wood	Ministry for the Environment	Working Group Member
Geoff Banks	(ACENZ) Structex	Working Group Member
Justin Lees	Connell Mott	Working Group Member
David Kernohan	DBH	Working Group Member
Jason Happy	Kiwi Income Property Trust	Working Group Member
Hans Buwalda	Fletcher Building	Working Group Member
Chris Mason	NZIA	Working Group Member
Mark Sigglekow	Pragmatix	Working Group Member

Building Assessment Schemes



Best Practice – Green buildings

The Green Star NZ Rating Scheme



NZGBC



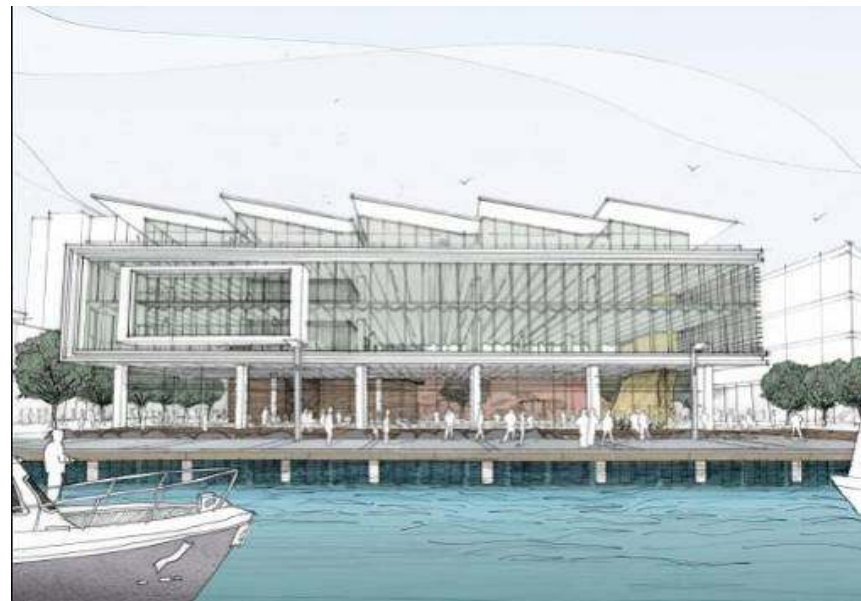
Che Wall, Chairman World GBC congratulates and Jane Henley CEO, NZGBC collecting their World GBC Membership

Green Star NZ

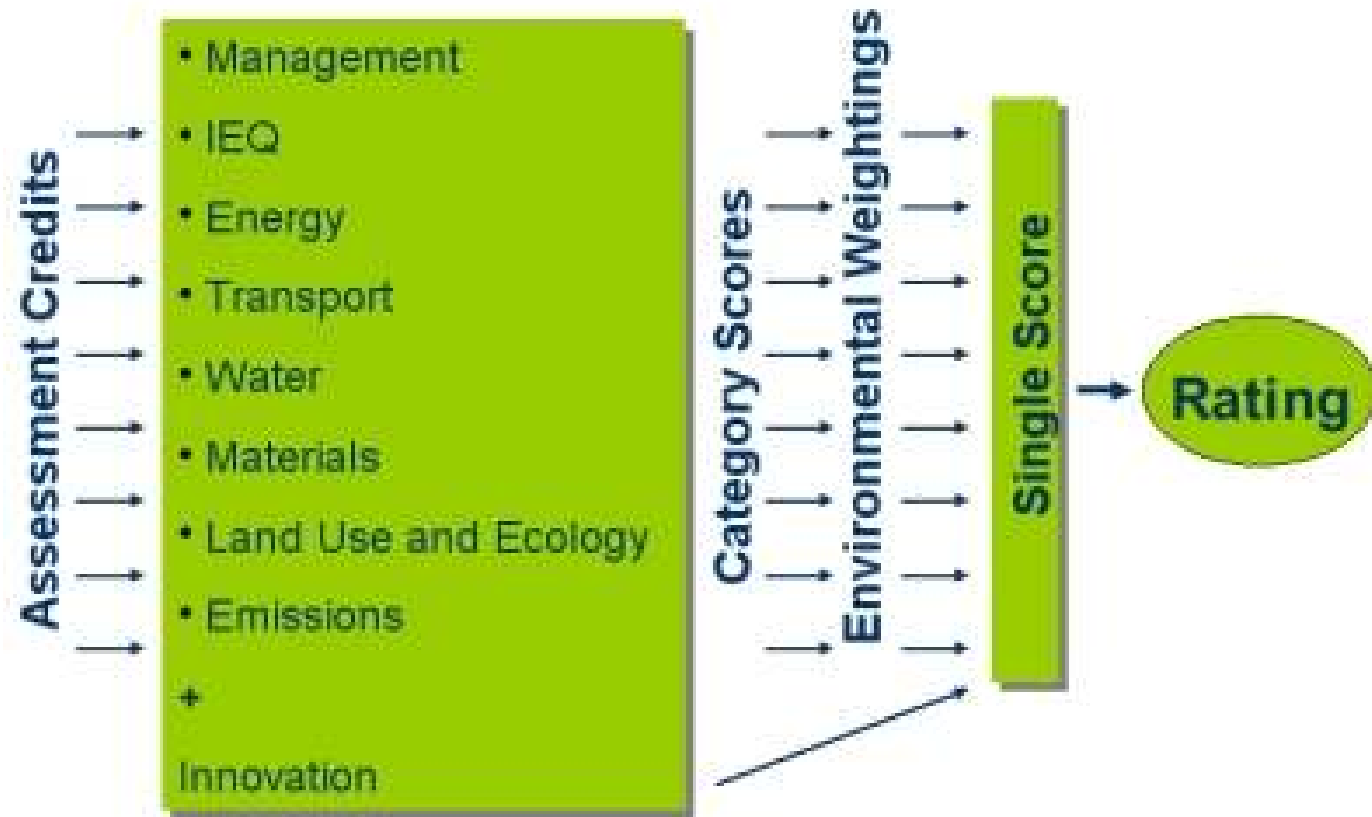
Green Star NZ - Office Design evaluates the environmental initiatives and/or the potential environmental impact of new and refurbished commercial office building designs.

Green Star NZ Pilot

Tool piloted on two office buildings



Categories





Weightings

Management	10%
Indoor Env. Quality	20%
Energy	20%
Transport	10%
Water	15%
Materials	10%
Land use and Ecology	10%
Emissions CO2	5%
TOTAL	100



Rating	Score Required	Comment
1 Star	10	No certification
2 Star	20	No certification
3 Star	30	No certification
4 Star	45	Best Practice
5 Star	60	Excellence
6 Star	75	World Leader

NZGBC Board



From left top: Hans Buwalda - Fletcher Building, Helen Priest - Meridian Energy, Brent Mettrick - Stonewood Homes, Wayne Sharman - Building Research, Craig Price - Beca, Carey Oldfield - NZ Post, John Dakin - Macquarie Goodman

From left front: Paul Burke - Ministry of Education, Graeme Finlay - Warren & Mahoney, Patrick Fontein - Kensington Properties, Dean Riddell - Davis Langdon.

Govt³ agencies looking at rating tools

- MoE school buildings
- Justice courts
- HNZC houses
- All offices



The tools funding

This tool is made possible by the funding from:



.....and the time and expertise of the Rating Tool Sub committee



The New Zealand Green Building Council

<http://www.nzgbc.org.nz/>