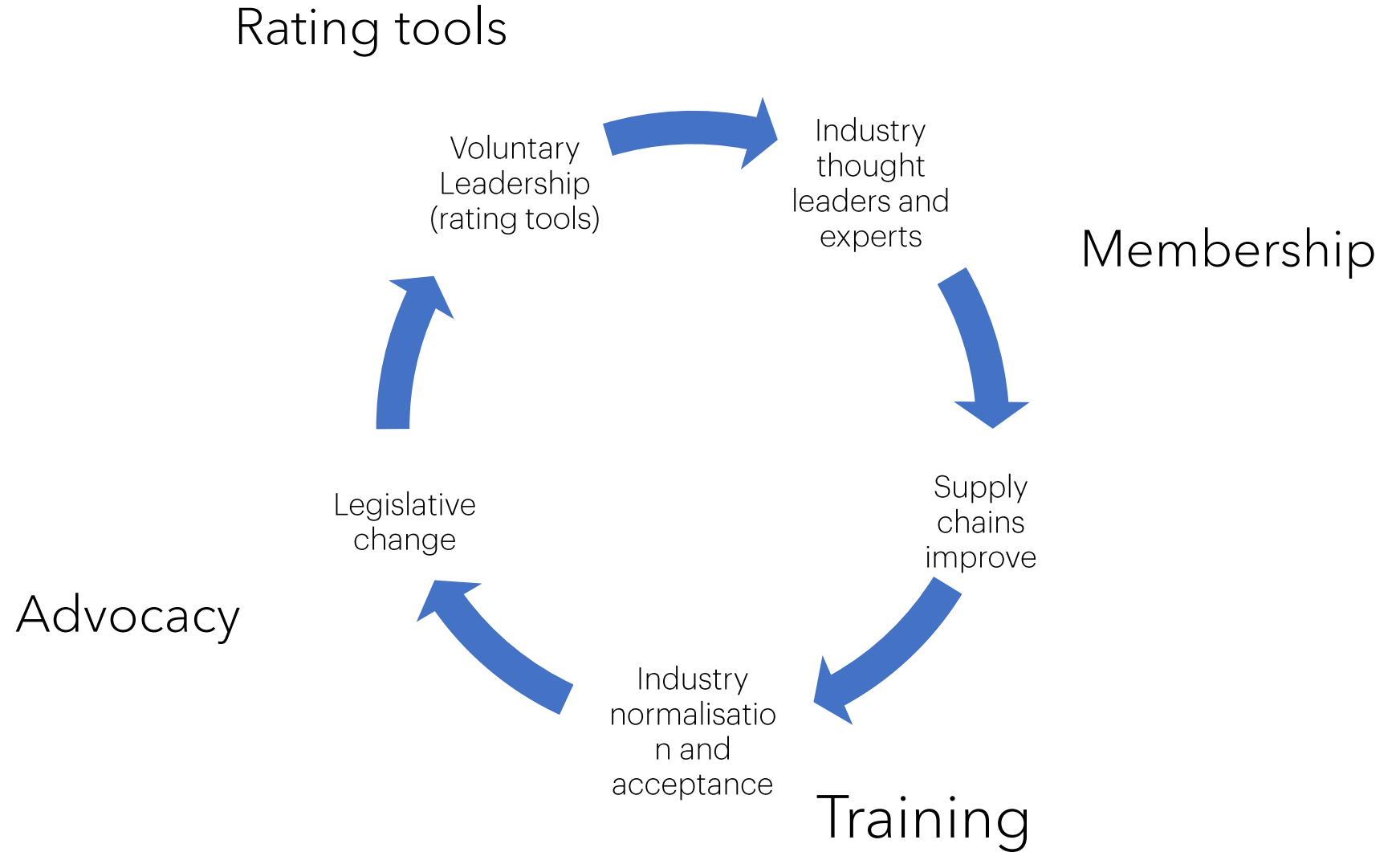


All homes and buildings  
in Aotearoa green and  
sustainable, making  
healthier, happier  
New Zealanders.



# Virtuous circle



## **Advocacy goals for 2021/22**

- 1) Energy certificates on homes and buildings at point of sale
- 2) A building code that delivers a zero carbon future & low embodied carbon
- 3) Government leads by certifying new builds & fit outs to green standards



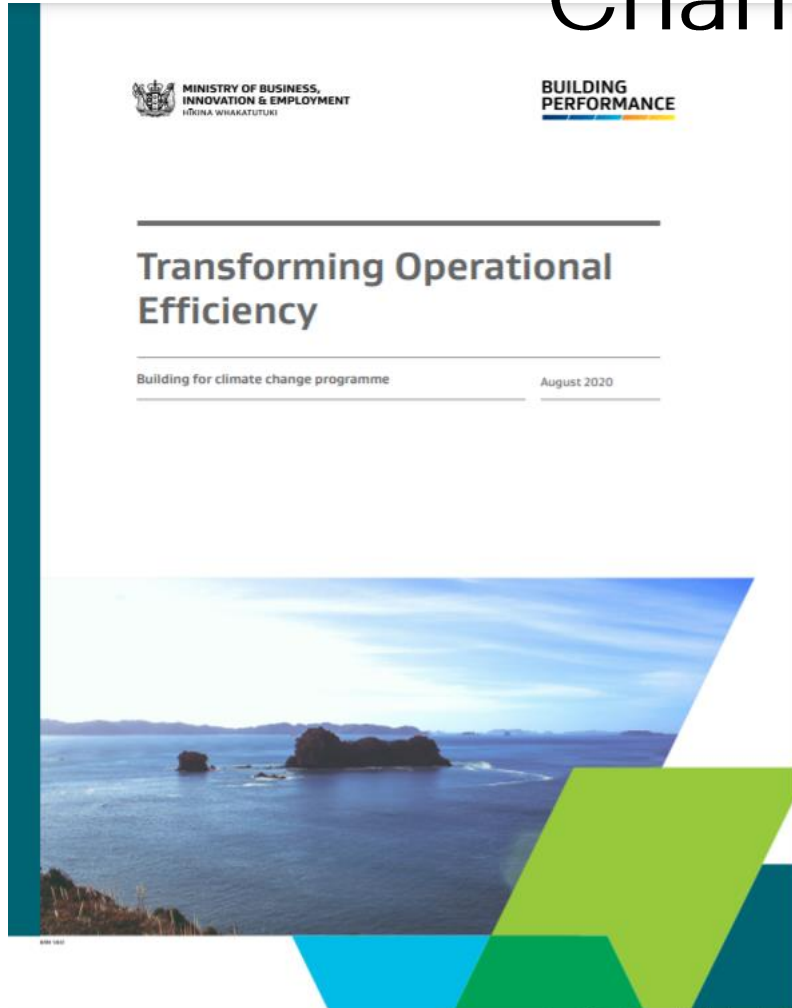
Policy for housing certificates will take time to create

# 1) Energy certificates

NABERSNZ is proven & established - lets move to mainstream it' use. This term.



## 2) Building code - Building for Climate Change



Industry are supportive. NZGBC are focused on

- keeping the programme robust
- ensuring adequate guidance & training is provided to help the sector transition
- simplifying - could Green Star applications count for Building Code calcs reducing double counting
- helping the sector prepare - providing a way to meet the caps ahead of building code changes

# Practice ahead of the building code changes

MBIE operational carbon	Cap 1	Cap 2	Cap 3 (Zero carbon)
Possible timing	2024	2027	2030-32
Homes	7 Homestar	8 Homestar	10 Homestar
Buildings	Prove the building meets the caps with the energy credits in Green Star		

MBIE potential embodied carbon	Targets to be established
Homes	Use the Homestar V5 embodied carbon credits
Green Star	Use the Green Star life cycle analysis credits

### **3) Government leading by building to green standards**

Labour & the Greens made manifesto commitments for new Government buildings to be built to green standards

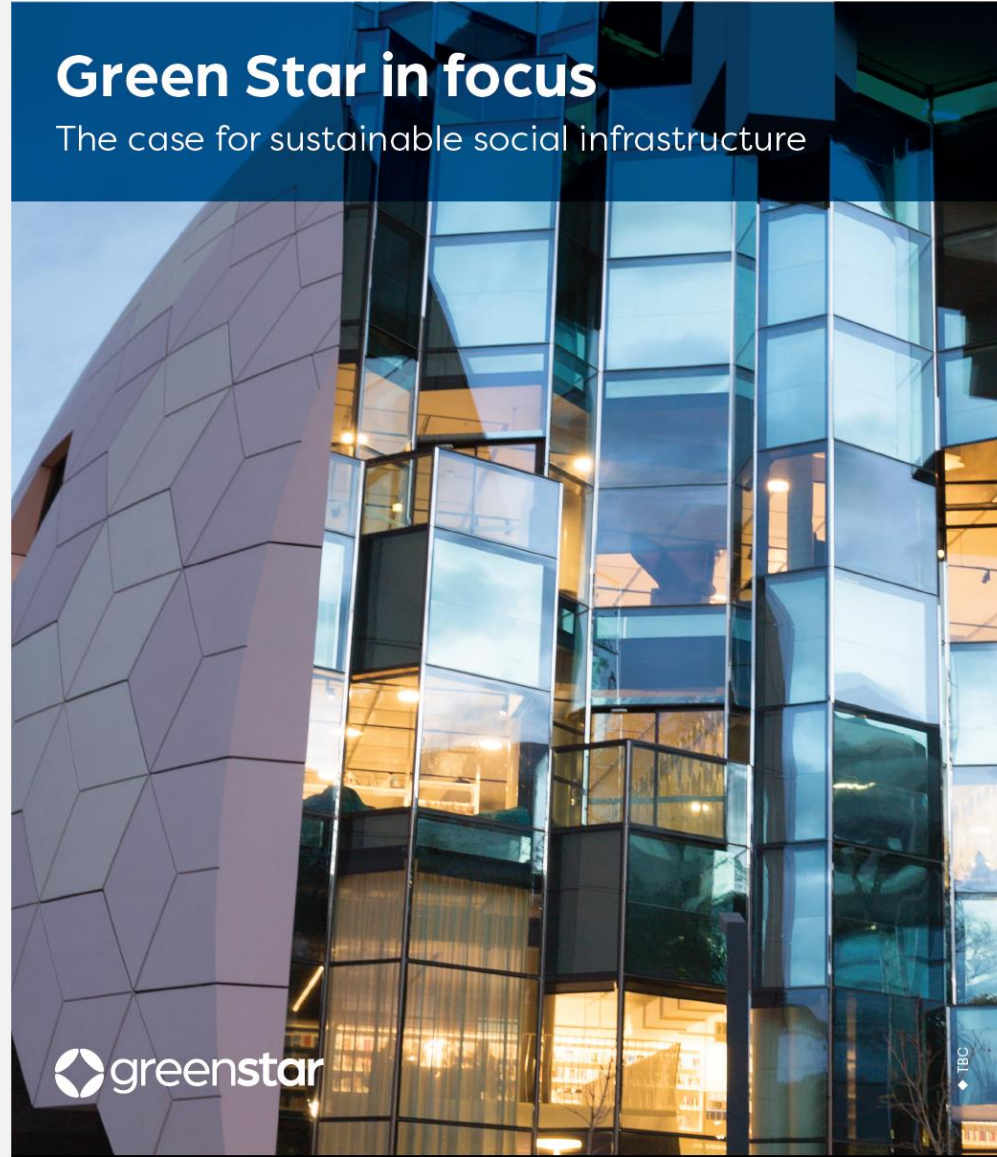
58 construction firms, owners, architects, engineers, and others wrote to Ministers seeking reassurance action will be taken. NZIA, Facilities Management Association of NZ, & Sustainable Business Council supported

New guide - Mapping Government goals & how these can be met. “The case for sustainable infrastructure” . To be released tuesday

# The case for sustainable social infrastructure

## Green Star in focus

The case for sustainable social infrastructure



Joint NZGBC and GBCA guide with the case for sustainable social infrastructure and the role it can play in:

- achieving climate goals and emissions reduction targets
- cost savings for government
- creating healthier, more efficient and productive places for people to work, learn, heal and recreate.



## **Supporting New Zealand's climate goals and policies**

Government have the following goals:

- Sustainable Development Goals
- The strengthened procurement rules (September 2020)
- Carbon Neutral Public Sector by 2025
- The NZ Government's Whole-of-life Construction Guidelines and Sustainable Construction Guidelines

Green certified buildings help Aotearoa achieve its climate goals

They also verify delivery towards the above goals

# Certification confirms delivery of Sustainable Development Goals



New Zealand  
Government  
Procurement guidance  
is clear.

They want  
departments to  
procure sustainable  
buildings

Whole-of-Life:  
Construction  
procurement  
guidelines 2019

Through life costs

Environment

Sustainable  
Construction:  
Construction  
procurement  
guidelines 2019

Utilising low-impact, sustainable  
construction materials

Minimising construction waste and  
re-using existing built assets

Minimising energy and water  
consumption

Strengthened  
procurement rules,  
September 2020

Assess the GHG emissions resulting  
from **materials** and construction  
processes

## ON AVERAGE, GREEN STAR COMMUNITY CENTRES, LIBRARIES AND CIVIC BUILDINGS:



....► use **50%** less energy than buildings built to minimum standards



....► generate **54%** fewer GHG emissions than buildings built to minimum standards



....► have an average energy intensity **86 kWh** per metre squared per annum, compared to **189 kWh** per square metre per annum if they had been built to standard practice

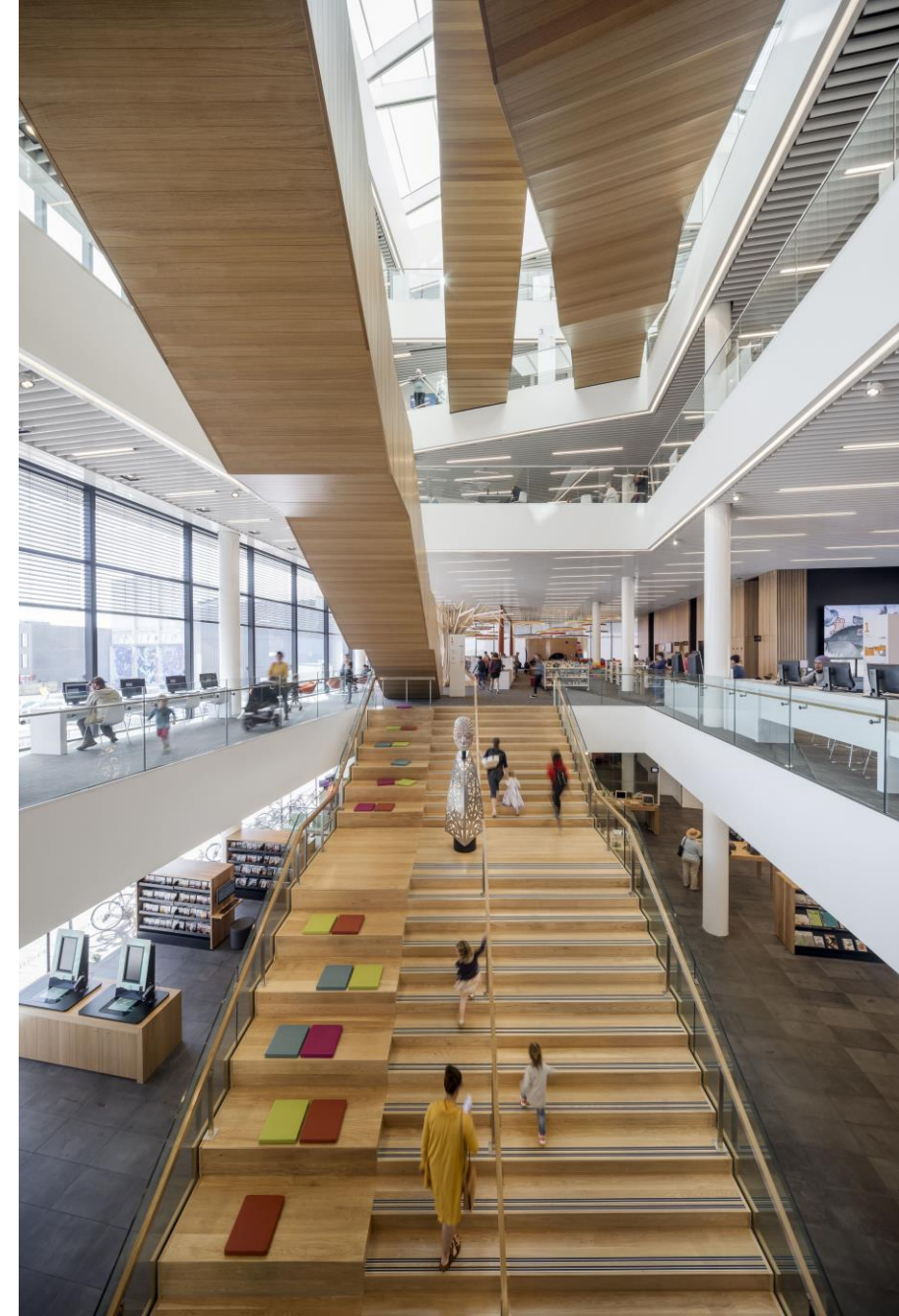


....► will save around **\$100,000** per year in energy bills<sup>19</sup>

## GREEN STAR SCHOOLS:



....► Produce, on average, **67%** fewer GHG emissions than schools built to minimum standards



**Tūranga, Christchurch Library 5 Green Star**



**Te Manawa (Westgate) School, Auckland, 5 Green Star**

Extensive research collated by the World GBC finds

- exposure to natural light during the working day leads to 46 minutes more of sleep each night.
- access to nature tends to deliver an 8% increase in worker productivity, higher rates of learning and improved test results in education spaces
- wider comfort indicators which can lead to greater productivity include character, layout, functionality, space, access to views, nature and greenery.

One of many trips  
making the case  
for better buildings

Thank you  
Dan McGuinness  
Maurice Clark  
Peter Mence  
Niall Bennett  
Neil Barr



# Tool update – 2021/22 brings simpler language



## Responsible

Recognises activities that ensure the building is designed, procured, built and handed over in a responsible manner.



## Healthy

Promotes actions and solutions that improve the physical and mental health of occupants.



## Resilient

Encourages solutions that address the capacity of the building to bounce back from short-term shocks and long-term stresses.



## Positive

Encourages a positive contribution to key environmental issues of carbon, water and the impact of materials.



## Places

Supports the creation of safe



## People

Encourages solutions that



## Nature

Encourages active connections



## Leadership

Recognises projects that set a

# Focus on carbon - 1) Operational carbon tightened over time



# 2) Focus on embodied carbon becomes is even clearer



## **Possible timeframe – to be agreed with Green Star Advisory Committee**

- Consult with you over the next year
- Amendments made around mid 2022
- Allow a cross over for a year

***This is  
our  
time***



Bring on next year-  
— our best year ever delivering better buildings together