



Sustainable Buildings for Everyone, Everywhere

Stephen Richardson - Director, WorldGBC Europe



WORLD
GREEN
BUILDING
COUNCIL

The challenge we face

104 of 194 countries that signed the Paris Agreement have committed to improve building energy efficiency to meet mitigation targets.

Only **62** countries currently have building energy codes.

By **2050**, global population will increase 27% to **9.8bn** and global floor area will increase by **100%**

Climate action

- Buildings are responsible for **39%** of global carbon emissions
- Energy demand will increase by **50%** by 2050

Resource efficiency

- Buildings are responsible for **50%** of global material use
- **42.4bn** tonnes of materials consumed annually

Health and wellbeing

- **91%** of people live where air pollution levels exceed World Health Organization limits
- People are **40%** more likely to have asthma due to living in a home with damp or mould

Carbon budgets quiz

Global carbon budget for 1.5 degC?

Approx. 400 Giga tonnes

Total annual man-made GHG emissions?

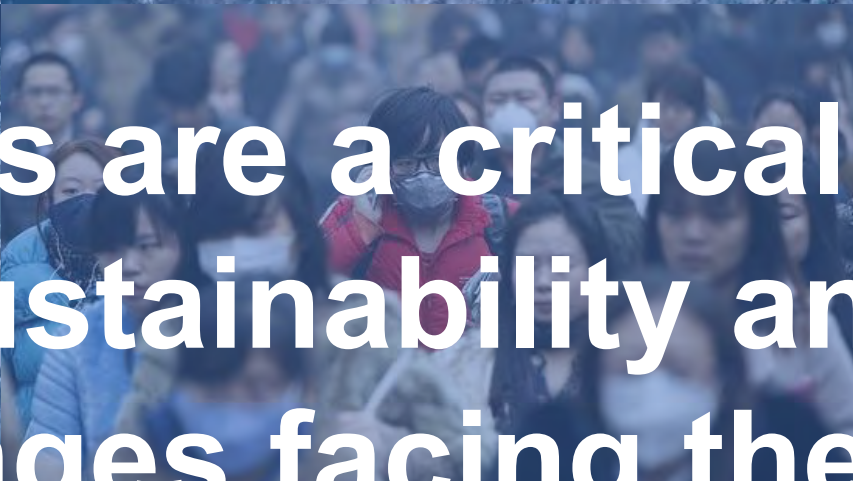
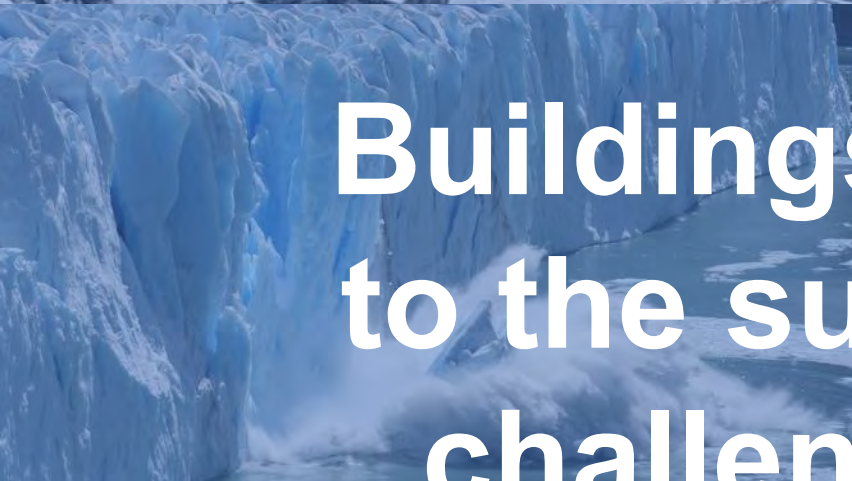
Approx 40 Giga tonnes

If all other emissions stopped, how quickly would buildings consume our carbon budget?

*25 years [= 400 / (0.4 * 40)]*



**Buildings are a critical solution
to the sustainability and health
challenges facing the planet**





Who we are



WORLD
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**WorldGBC's member network
has become the world's
strongest local-regional-global
action network for the built
environment**

Our Impact Enablers: the way we drive change as a global network

Five Regional Networks

Bringing together international leadership, with the support of Partners, to collaborate on regional level GBC impact

Established GBC CEO Network

CEOs of close to 40 countries committed to sharing best practice and implementing innovative business models to drive change

70 Green Building Councils
plus affiliate members

Corporate Advisory Board
Fifteen industry-leading Partner organisations collaborating to drive market leadership, innovation and implementation

International Membership Base
Representing +36,000 organisations dedicated to sustainability in the built environment

WorldGBC Advocacy
A united voice of a global network on the forefront of the international climate and sustainability policy agenda

Partnerships
The WorldGBC is proud to partner with over 60 diverse organisations committed to collaboration for our shared vision and strengthening impact opportunities.

Accelerating solutions

Green Building Councils are independent non-profit organisations made up of businesses and organisations in the building and construction industry.

They bring together industry, government and civil society to facilitate market transformation, positioning buildings as a key response in the fight against climate change.

Collaborate		123,400 people participate in GBC events and networks annually
Innovate		GBCs invest \$7m in innovative research each year
Communicate		GBC communications have an estimated reach of +500m people
Rate		2.9 billion m ² of buildings have been certified sustainable by 36 GBC rating tools
Educate		46,800 people trained by GBCs annually
Advocate		GBCs strengthened policy in 30 countries last year alone
Finance		Unlocking necessary capital investment to facilitate change

EUROPE REGIONAL NETWORK



WORLD GREEN BUILDING COUNCIL

AMERICAS REGIONAL NETWORK



中国绿色建筑委员会
China Green Building Council



香港绿色建筑协会



Indian Green Building Council
Growing India since 2007



KOREA GREEN BUILDING COUNCIL



MENA REGIONAL NETWORK



مجلس الطوبى للمباني الخضراء
Kuwait Green Building Council



المجلس الأخضر للمباني الخضراء
مجلس لبنان للأبنية الخضراء



المجلس الفلسطيني للأبنية الخضراء
Palestine Green Building Council



KENYA GREEN BUILDING SOCIETY



Rwanda Green Building Organization

AFRICA REGIONAL NETWORK

ASIA PACIFIC REGIONAL NETWORK

Supporters 2020



Corporate Advisory Board



Global Project & Regional Partners



Activity Sponsors



Plant a Sensor Sponsors

Gold



Silver



Grant Providers



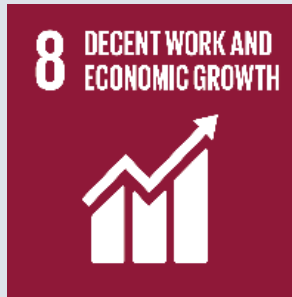
WorldGBC's ambition for a sustainable built environment aligns with the Global Goals



Our tiered goals show the areas that our global network will focus on to effectively enable this transition. The WorldGBC global network is proud to publicly report progress as members of the UN Global Compact.



Advanced Goals
Sustainability areas with key role for the built environment sector to act upon. Global projects run by WorldGBC, and Established national GBC action.



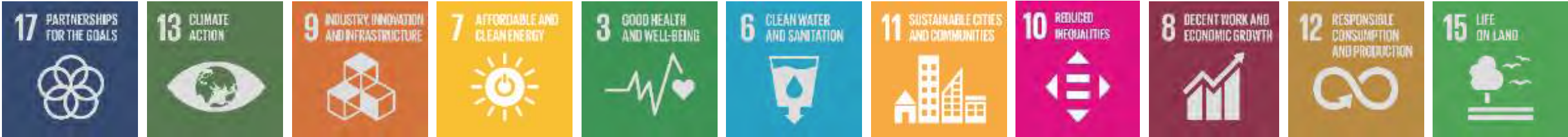
Progressive Goals
Sustainability areas substantially impacted by the built environment. Prioritised action in some GBC network areas. WorldGBC aims to progress.



Growth Targets
Sustainability areas with contributory role for the built environment. WorldGBC aims to progress work in partnership with key stakeholders.

WorldGBC Strategy 2020-22

Analysis of Sustainable Development Goals relevant to the built environment





Climate Action



**ADVANCING
NET ZERO**



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Our North Star Goals for the Movement

	Climate Action	Health & Wellbeing	Resources & Circularity
North Star Goal	Total decarbonisation of the built environment		
2050 Goal	New buildings, infrastructure and renovations will have net zero embodied carbon , and all buildings, including existing buildings must be net zero operational carbon .		
2030 Goal	All new buildings, infrastructure and renovations will have 40% less embodied carbon with significant upfront carbon reduction; all new buildings are net zero operational carbon .		



ADVANCING NET ZERO

A global campaign to accelerate uptake of Net Zero Carbon Buildings to 100% by 2050

Project targets

- Increase awareness and education of the urgency and achievability
- Achieve alignment and commonality between GBC approaches and certification schemes
- To expedite uptake in global markets by sharing market leadership examples



The Net Zero Carbon Buildings Commitment



**LEADER
SHIP**

**LARGE
SCALE
RESPONSE**

**OUTCOME
FOCUSED**

**ROADMAP
TO NET
ZERO**

**INFLUENCE
OTHERS**

<https://youtu.be/s-AARDJhVY0>

CLIMATE CHANGE

is proceeding at
an unprecedented rate



The Net Zero Carbon Buildings Commitment



76
Businesses and organisations

28
Cities

6
States and Regions

Around the world in Advancing Net Zero



#BUILDING LIFE CAMPAIGN AMBASSADOR

**“Green and sustainable
buildings could solve
50% of resource
efficiency and 40% of
climate challenge and
ensure better living
conditions. Let’s do it!”**

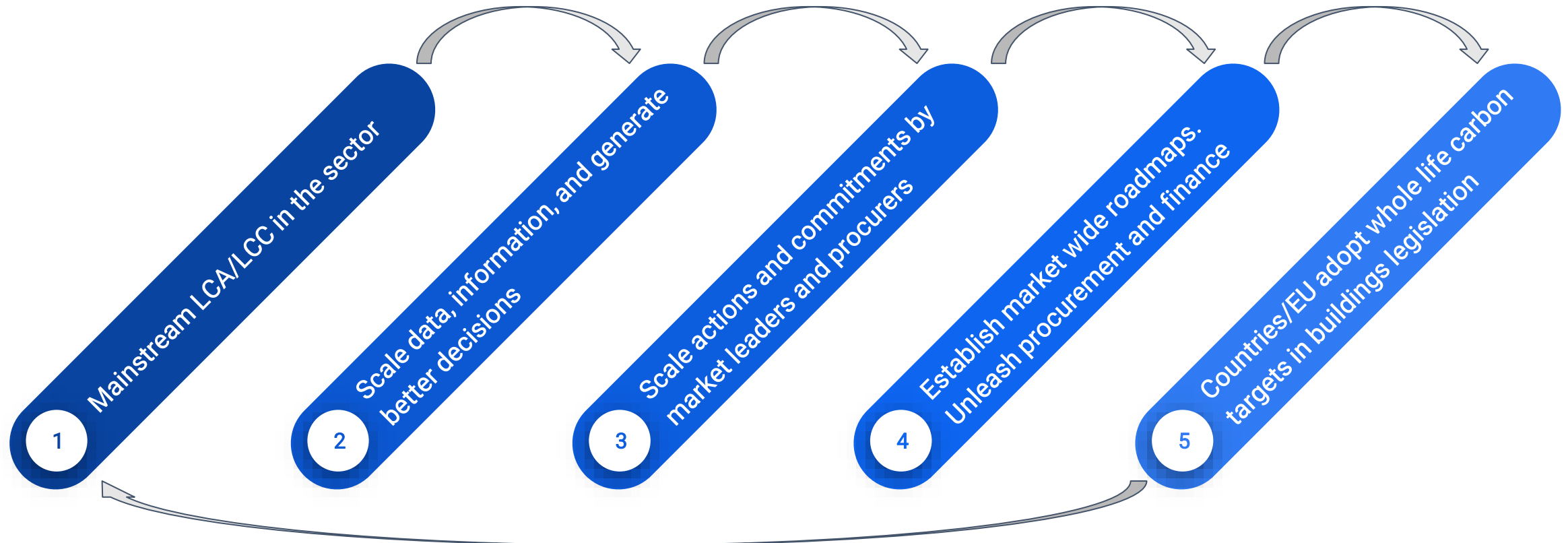
**SIRPA PIETIKÄINEN MEP
European People’s Party
Finland**



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BuildingLife: Countries set whole life carbon targets for building projects.



1. Conditions 2. Decisions 3. Leadership 4. Critical mass 5. IMPACT!



Back-casting:

It's 20XX, your business is just a few years away from achieving net zero across all projects.

What has changed?

What actions drove that change?

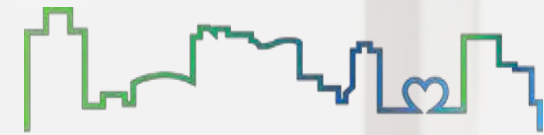


Health and Wellbeing



Our North Star Goals for the Movement

	Climate Action	Health & Wellbeing	Resources & Circularity
North Star Goal	Total decarbonisation of the built environment	A built environment that delivers healthy, equitable and resilient buildings, communities and cities	
2050 Goal	New buildings, infrastructure and renovations will have net zero embodied carbon, and all buildings, including existing buildings must be net zero operational carbon.	Transformative, restorative improvements in public health and wellbeing through the development of a sustainable built environment across all types of new and existing buildings, with focus on quality housing for all. Elimination of air, soil and water pollution from the built environment. Sustainable urban planning advances healthy, equitable and resilient communities.	
2030 Goal	All new buildings, infrastructure and renovations will have 40% less embodied carbon with significant upfront carbon reduction, and all new buildings are net zero operational carbon.	Substantial improvement in public health and wellbeing through the development of a sustainable built environment across all types of new and existing buildings, with a focus on quality housing for all. Improvements achieved through the reduction of air, soil and water pollution and implementation of health-based urban planning	



BETTER PLACES FOR PEOPLE

A global campaign to accelerate a sustainable built environment by proving and supporting benefits for people, particularly related to health and wellbeing

Project targets

- Reduce contribution from built environment to global health crises, such as air pollution
- Increase awareness and education on sustainable, healthy buildings
- Empower advocacy around sustainability with health co-benefits
- Prove business case for green buildings

Demonstrating the business case for healthy, sustainable buildings

DOING RIGHT BY PLANET AND PEOPLE

The Business Case for Health and Wellbeing in Green Building

April 2018



Plant a Sensor

A global air quality monitoring campaign aimed at collecting accessible information about the places we live

Launching on the 50th anniversary of Earth Day, Earth Challenge 2020 will gather citizen science data across six environmental topics, aiming for global monitoring coverage of **one billion data points**

Data from *Plant a Sensor* held on RESET Earth platform will be made publicly available to Earth Challenge 2020

Our purpose

Enlighten citizens about the air around them, indoors and outdoors

Equip researchers and policy makers with rich, global data

Empower a global audience with information for effective advocacy and policy change

Ensure the impact of the built environment on air pollution is recognised and understood

HEALTH & WELLBEING FRAMEWORK LAUNCH

4 NOVEMBER



BETTER
PLACES
FOR
PEOPLE



SIMON SHELLEY

Host
Global Director of
Programme Partnerships,
BBC Global News



**CRISTINA
GAMBOA**

CEO,
WorldGBC



**DR MARIA
NEIRA**

Director, Public Health,
Environment and Social
Determinants of
Health Department,
World Health Organization



**DR JOSEPH
ALLEN**

Associate Professor and
Director of Healthy Buildings
Program at Harvard T.H. Chan
School of Public Health



**JOHN
MORRISON**

Chief Executive,
Institute of Human Rights
and Business

Discussion:

How important is health and wellbeing for your clients?

Is this changing in light of COVID19?



Resources and Circularity



Our North Star Goals for the Movement

	Climate Action	Health & Wellbeing	Resources & Circularity
North Star Goal	Total decarbonisation of the built environment	A built environment that delivers healthy, equitable and resilient buildings, communities and cities	A built environment that supports the regeneration of resources and natural systems, providing socio-economic benefit through a thriving circular economy
2050 Goal	New buildings, infrastructure and renovations will have net zero embodied carbon, and all buildings, including existing buildings must be net zero operational carbon.	Transformative, restorative improvements in public health and wellbeing through the development of a sustainable built environment across all types of new and existing buildings, with focus on quality housing for all. Elimination of air, soil and water pollution from the built environment. Sustainable urban planning advances healthy, equitable and resilient communities.	A built environment with net zero whole life resource depletion, driving restoration of resources and natural systems with circular value chains
2030 Goal	All new buildings, infrastructure and renovations will have 40% less embodied carbon with significant upfront carbon reduction, and all new buildings are net zero operational carbon.	Substantial improvement in public health and wellbeing through the development of a sustainable built environment across all types of new and existing buildings, with a focus on quality housing for all. Improvements achieved through the reduction of air, soil and water pollution and implementation of health-based urban planning	Sustainable and efficient use of natural resources within the built environment, achieving zero waste leakage and working towards a built environment with net zero whole life resource depletion



Circular Built Environment

Business Case Report

https://wakelet.com/wake/AYxqNjC_ZYHorm2MtLiOi

S Created by You

Circular Built Environment

15 items · 378 views

A collection of resources for circular buildings, construction and real estate



[EN] CIRCUIT - project consortium including UKGBC

Circuit

CIRCUIT aims to bridge the gap between theory, practice and policy by delivering a series of demonstrations, case studies, events and other



[EN] Think Twice Before Demolishing - NGBC

Byggalliansen

With advice on carrying out a successful construction project whilst staying clear of demolition. In the booklet we are responding to 5 common myths and



[EN] Circular economy guidance for construction clients: How to practically apply circular economy principles at the project brief stage - UKGBC

UKGBC - UK Green Building Council



[EN] Circular construction in practice - INNOWO with input from PLGBC

Innowo

A report on practical aspects of implementing circular construction in Poland. Intended to contribute to the



[NL] A Framework for circular buildings - Dutch Green Building Council

Dgbc

What is a circular building? And how do you measure that circularity? Many actors must contribute the answer to



[EN] Circular Economy | DGNB

Dgnb

DGNB report and online toolbox on Circular Economy providing strategic fields of action for the different stakeholders, checklists for implementing Circular Economy in



[ES] POSITION PAPER ON CIRCULAR ECONOMY - GBCE

Gbce

The linear system of our economy (extraction, manufacture, use and elimination) has reached its limits, for which a paradigm shift is imposed; the



Global and European Advocacy



Advocacy efforts to scale up solutions through enhanced regulation for a sustainable built environment



Europe

ERN Policy Manifesto launched in 2019 identified eight priority areas to achieve a sustainable built environment

Renovation Wave communication reflects key GBC positions

EU Taxonomy influenced by our Green Mortgages work

New BuildingLife campaign – backed by MEPs - will support the evolution of Level(s) to become the basis for a Sustainable Performance of Buildings Directive (SPBD)

Global

WorldGBC is a proud founding member of the



**Global Alliance
for Buildings and
Construction**

World Green Building Week 2020 will be an advocacy campaign for government action towards net zero buildings



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**WORLDGBC
TO HELP LEAD EU
SUSTAINABLE
FINANCE WORK**



Join us!

...in creating sustainable buildings for everyone, everywhere



www.worldgbc.org



srichardson@worldgbc.org

europe@worldgbc.org



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facebook.com/worldgreenbuildingcouncil

