

Introduction to Advancing Net Zero

November 2019

GLOBAL PROJECT FUNDERS

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**ADVANCING
NET ZERO**



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**Buildings are a critical solution
to climate change**



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 of net zero carbon buildings
- Achieve alignment and commonality between GBC approaches and certification schemes
- To expedite uptake in global markets by sharing market leadership examples



Advancing Net Zero



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WorldGBC definition:
A net zero carbon building is highly energy efficient with all remaining energy from on-site and/or off-site renewable sources

100% of buildings must operate at net zero carbon

2050

2030

All new buildings must operate at net zero carbon

GOVERNMENT
ENGAGEMENT

TRAINING &
EDUCATION

CORPORATE
ENGAGEMENT

CERTIFICATION

Key Principles

1. Measure and disclose carbon

Carbon is the ultimate metric to track; buildings must achieve an annual operational net zero carbon emissions balance based on metered data



2. Reduce energy demand

Prioritise energy efficiency to ensure that buildings are performing as efficiently as possible, and not wasting energy



3. Generate balance from renewables

Supply remaining demand from renewable energy sources, preferably on-site followed by off-site, or from offsets



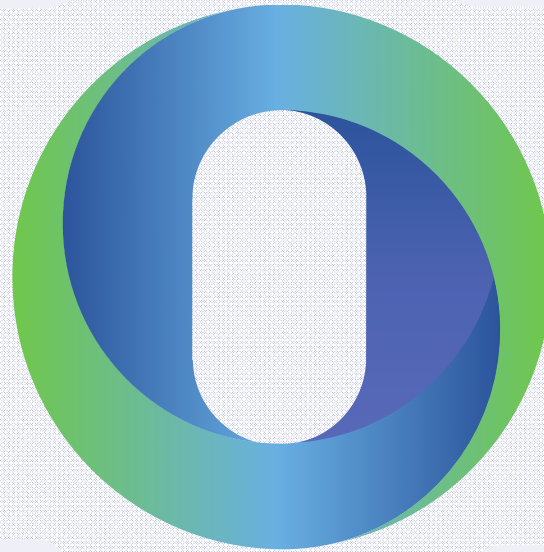
4. Improve verification and rigour

Over time, progress to include embodied carbon and other impact areas such as zero water and zero waste



Around the world in Advancing Net Zero

Whole life carbon





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Status Report 2019

www.worldgbc.org #AdvancingNetZero @WorldGBC

Government

- ✓ Create a signal to market for transition, and **give confidence and assurance to industry about taking action now**
- ✓ Enact regulation to **support the achievement of climate targets** supporting the Paris Agreement and 1.5°C scenario
- ✓ **Enable action from the private sector** by implementing non-regulatory incentives and programs

Investor

- ✓ **Secure assets for the future:** increased asset value and desirability and **minimise the risk of stranded assets**
- ✓ **Uphold fiduciary duties and demonstrate corporate social responsibility** to shareholders
- ✓ **Prepare for future regulations** by taking the step to get to net zero and protect against regulatory uncertainty

Owner, Occupier and Developer

- ✓ **Optimise performance of assets to attract buyers and tenants**, with reduced operating costs and higher quality assets
- ✓ **Improve quality of occupied space** by reducing energy wastage and optimising internal comfort conditions
- ✓ **Attract and retain talent** through strong sustainability policies and net zero strategies

Tenant

- ✓ **Enhance organisational productivity** and sustainability performance
- ✓ Advocate to building owners to **take greater control over consumption and improvements, and energy supply contracts** for financial and environmental improvement
- ✓ Explore **opportunities through core business activities to demonstrate climate leadership**



Net Zero is HERE!





The Net Zero Carbon Buildings Commitment



LEADERSHIP

**LARGE
SCALE
RESPONSE**

**OUTCOME
FOCUSED**

**ROADMAP
TO NET
ZERO**

**INFLUENCE
OTHERS**

The Net Zero Carbon Buildings Commitment



63 signatories



Detailed Guidance



GBC network and rating tools

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SALESFORCE
Cloud Computing Company

Committed to mitigating its climate change impacts. In FY18, kept net-zero cloud to its customers, is halfway towards its goal of 100% net-zero by 2025, and has already achieved or is pursuing green building certified office spaces. Ranked #2 on Fortune 2018 list of 100 Most Sustainable Companies.

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TOKYO, JAPAN

Further information:
Creating a Sustainable City, Tokyo's Environmental Policy
Cap and Trade Program
Tokyo Green Building Program

- 1 **Commit**
Committed to all new buildings from 2020 onwards as net-zero carbon.
- 2 **Disclose**
Disclose Scope 1 and 2 (and relevant Scope 3) emissions via GRI and annual Sustainability Report.
- 3 **Act**
By 2020, aim for major new office sites and to operate at net-zero carbon. Achieve energy efficiency, renewable energy procurement, and low-carbon building materials. By 2022, achieve 100% net-zero carbon for all new office buildings.
- 4 **Verify**
Workspaces are built to meet leading green building standards (LEED, BREEAM, Fitwel, and Green Mark) and progress towards 100% renewable energy. Carbon Neutral Cloud commitments are verified by a third party.
- 5 **Advocate**
Partner with key suppliers to set their own emissions reduction targets by 2025. PV evaluates against four key criteria when selecting suppliers.

240,000 tCO₂e portfolio carbon emissions
30,000+ employees
26 countries of operation

Existing / Planned Regulations & Roadmaps

- ✓ Tokyo Environmental Master Plan (2016) sets actions and policies to reduce Tokyo's GHG emissions by 30% below 2000 levels by 2030.
- ✓ Cap-and-Trade Program plans to set a new emissions cap by 2019 in order to promote energy efficiency and expand renewable energy usage. Facilities covered under existing program have achieved 26% emissions reduction over baseline year of 2010.
- ✓ Tokyo Carbon Reduction Reporting Program has mandated emissions reporting and a carbon reduction plan submission for existing small and medium facilities since 2010.
- Develop and set new 'evaluation criteria' to promote zero energy buildings in Tokyo under the Tokyo Green Building Program.
- Tokyo Eco-Friendly House Specification for building owners to promote construction of net-zero carbon homes to be developed.
- Implement subsidy programs to advance energy efficiency and improve efficiency.

13,644,764 inhabitants
Warm subtropical climate

Signatory Action Plans

Bringing embodied carbon upfront

Coordinated action for the building and construction sector to tackle embodied carbon

worldgbc.org/embodied-carbon

By 2030, new buildings, infrastructure and renovations will have at least **40% less embodied carbon** with significant **upfront carbon** reduction, and all new buildings must be **net zero operational carbon**.

By 2050, new buildings, infrastructure and renovations will have **net zero embodied carbon**, and all buildings, including existing buildings, must be **net zero operational carbon**.



“Bringing embodied carbon upfront”



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Global trends

- Tools and resources
- Energy & carbon budgeting
- Collaboration & integration
- Co-benefits
- Bespoke roadmaps
- Value proposition
- Net zero can take many forms





Thank you!

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