Meeting Record

MEETING PURPOSE	Monthly Maryland Green Building Council Meeting
MEETING DATE	16 January 2019
MEETING TIME	10:00 AM to 12:00 PM
MEETING LOCATION	Maryland Department of General Services, 301 West Preston Street, 14th floor, Executive Conference Room Baltimore, Maryland 21201-2388
MEETING NUMBER	2019-01
ATTENDEES	

COUNCIL APPOINTEE		DEPT. DESIGNEE				PARTICIPANT	
Nakita Reed, Chair (6/2020)	P	(DNR) Donald VanHassent	A	Steve Lauria (DGS)	P	Martha Shrader (USM)	P
Ryan Schwabenbauer (6/2019)	P	Laura Armstrong (MDE)	P	Anne B. Raines (MDP)	A	Ellen Robertson (DGS)	
Cherise Y. Seals (6/2020)	P	Mark Beck (USM)	P	Laura Rogers (MDOT)	P	Mathew Helminiak, Commissioner, Labor and Industry	
Stuart Kaplow (6/2019)	P	Arabia Davis (ICSC)	P	Chris Russell (MEA)	P	Bill Linzey, BGE	
Michael Li (6/2019)	A	Susan Gore (DBM)	A	Norman Wang (DHCD)	P	David Saint Jean, DGS	
						Jim Libertini, BGE Conservation Pgms.	
						Elizabeth Beardsley, Ryan Snow, Cindy Zork USGBC	
PREPARED BY		Steve Lauria					

	Agenda Item	Discussion	Action (by, Date)
1	Introductions	The meeting was called to order at 10:00 AM and self-introductions made	
2	Meeting Record	Review and approval of the December 2018 Meeting Record. A motion was made, seconded and the record was approved as submitted.	
3	Old Business	Green Globes/LEED Gold Update: • A letter recommending adoption of Green Building Initiative's two green globes as equivalent to LEED Silver for the purposes of granting MHT Tax credits was sent to the Secretary of M-DGS. The Secretary has requested additional information to substantiate the request to modify the existing policy.	Follow up with Secretary is needed.
		21st Century Schools Guidelines update: • Nikita has set a March deadline for producing a draft of guidelines. Volunteers are needed to help with the effort. (Stuart, Arabia, Martha, Mark, Laura R. will assist). It is desired that a public and agency review process be incorporated.	
		2018 IgCC adoption update, dates of DLLR outreach meetings: • DLLR has indicated that they have not taken up review of the current IgCC and does not have plans to do so. They have not received a formal request to do so.	MGBC needs a defined process for follow up on recommendations made by the Council

Maryland Green Building Council
Maryland Department of General Services, 301 West Preston Street, Suite 1405, Baltimore, Maryland 21201-2388

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	Agenda Item	Discussion	Action (by, Date)
		•	
4	Guest Speaker(s)	Ryan Snow, Elizabeth Beardsley & Cindy Zork of USGBC • the evolution of LEED and the increasing focus on performance – (LEED Zero, LEED v4.1 and the Arc platform) • Additional GBCI offerings that round out the toolkit.	
		Bill Linzey and Jim Libertini of ICF/BGE • Existing building efficiency incentives	
5	New Business	2019 Legislative Session Updates • Legislation may move quickly and comment periods may come and go in the time between MGBC meetings. Therefore, Council members are encouraged to review the smartsheets list on Google drive regularly (at least weekly) and to comment as individual members of the MGBC. Follow: https://app.smartsheet.com/b/home?lx=pps4AkB-hFJO_BUdnOgNhA&mt=21	All Council members – Ongoing throughout the legislative session.
		MDGBC Resolution tracker • Nakita has requested that a log of Council-passed resolutions be maintained.	Steve will add a list with status of each to meeting record(s)
		2019 Strategies and Goals • Nakita will share Council-defined goals with Secretary Churchill and seek input on topics where no response has been received.	
		Around the table (5 mins) • Laura A.: Provided notice of 'Greening Your Business Program' a program of half-day workshops in February and April. Follow: https://open.maryland.gov/blog/greening-your-business-program-sign-up-now/ and 'Sustainable from the Start'. Please attend	
	Reminders	Items to review and update on Google Drive • High Performance Green Building Program (HPGBP) • Operations Manual Draft Review	
6	Next Meeting	**20 February 2019 @** 10 AM (Postponed to 2/27/19) at Maryland DGS	
7	Adjourn		12:00PM

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Unofficial Copy

A Resolution of the Maryland Green Building Council

Whereas, The purpose of the resolution of the Maryland Green Building Council is to urge the Maryland the Department of Labor, Licensing and Regulation to adopt the 2018 version of the International Green Construction Code.

Whereas, The Maryland Green Building Council is enabled and exists by virtue of State Finance and Procurement Article § 4-809, including for the purposes of: providing "recommendations concerning the most cost-effective green building technologies that the State might consider requiring in the construction of State facilities," and providing "recommendations concerning how to expand green building in the State."

Whereas, Maryland first authorized the use of the International Green Construction Code in 2011 with Chapter 369, the enactment of House Bill 972.

Whereas, MD Code, Public Safety, § 12-501 (f)(1) says "International Green Construction Code means the first printing of the most recent edition of the International Green Construction Code issued by the International Code Council."

Whereas, There have been various editions of the International Green Construction Code beginning with the 2009 edition and the 2012, 2015 and now 2018.

Whereas, The Department of Housing and Community Development adopted by regulation the 2012 International Green Construction Code (.. that authority has now been transferred to the Department of Labor, Licensing and Regulation).

Whereas, MD Code, Public Safety, § 12-504 (2)(i) provides, "regardless of whether the International Green Construction Code is adopted by the Department under § 12-503(d) of this subtitle, a local jurisdiction may adopt the International Green Construction Code."

Whereas, And further provides, "a local jurisdiction may make local amendments to the International Green Construction Code."

Whereas, The Maryland the Department of Labor, Licensing and Regulation is in the process of adopting the 2018 editions of the International Building Code, the International Energy Conservation Code, the International Plumbing Code, etc., but the Department is not proposing to adopt a newer edition to the 2012 International Green Construction Code.

Whereas, The 2018 International Green Construction Code aligns with 2018 the International Energy Conservation Code and works in concert with the 2018 International Building Code and 2018 International Plumbing Code.

Whereas, The 2018 International Green Construction Code is a modernization and improvement of the earlier editions of the Code.

Whereas, The 2018 International Green Construction Code advances the most cost-effective green building technologies that the State might consider requiring in the construction of State facilities.

Whereas, The 2018 International Green Construction Code, when adopted for State use and by local jurisdictions for government as well as voluntary private sector use, will expand green building in the State.

And Whereas, Additionally, it is desirable that only one version of a code be in use within the State at one time, and given that local jurisdictions may adopt the 2018 International Green Construction Code regardless of what DLLR does, such is real possibility.

Now Therefore, For those reasons and more, it is this 12th day of December, 2018 by a majority vote of the Maryland Green Building Council, strongly recommended by the Council that the Maryland the Department of Labor, Licensing and Regulation promptly (.. ideally, not later than first quarter 2019) adopt the 2018 version of the International Green Construction Code.

Nakita Reed

_____

Nakita Reed, AIA, APT, NOMA, NCARB, LEED AP BD+C, GGP
Maryland Green Building Council, Chair

Maryland Green Building Council

January 16, 2019

Cindy Zork Director, Community

Elizabeth Beardsley Senior Policy Counsel

green buildings for everyone within this generation

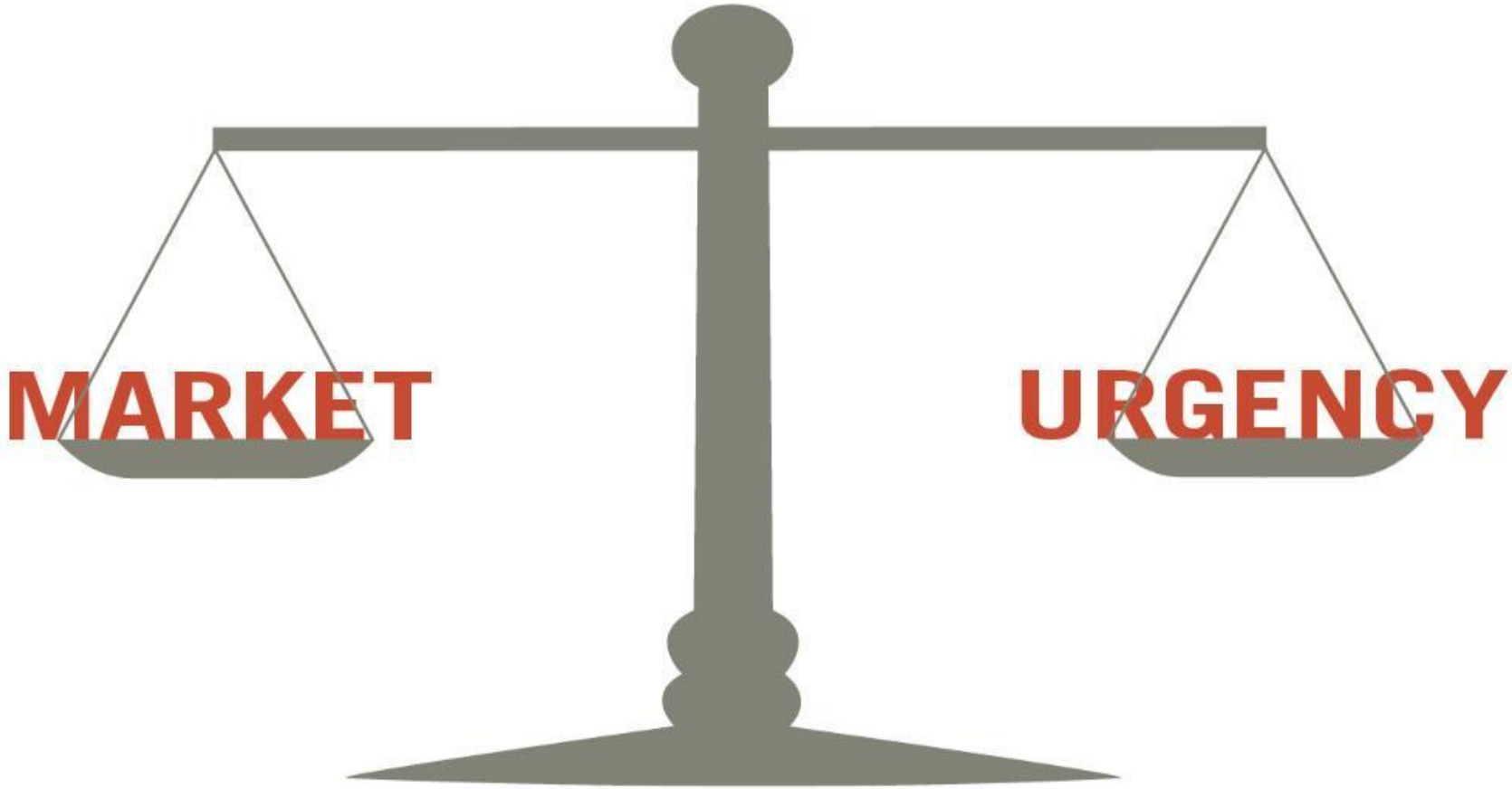
U.S. GREEN BUILDING COUNCIL

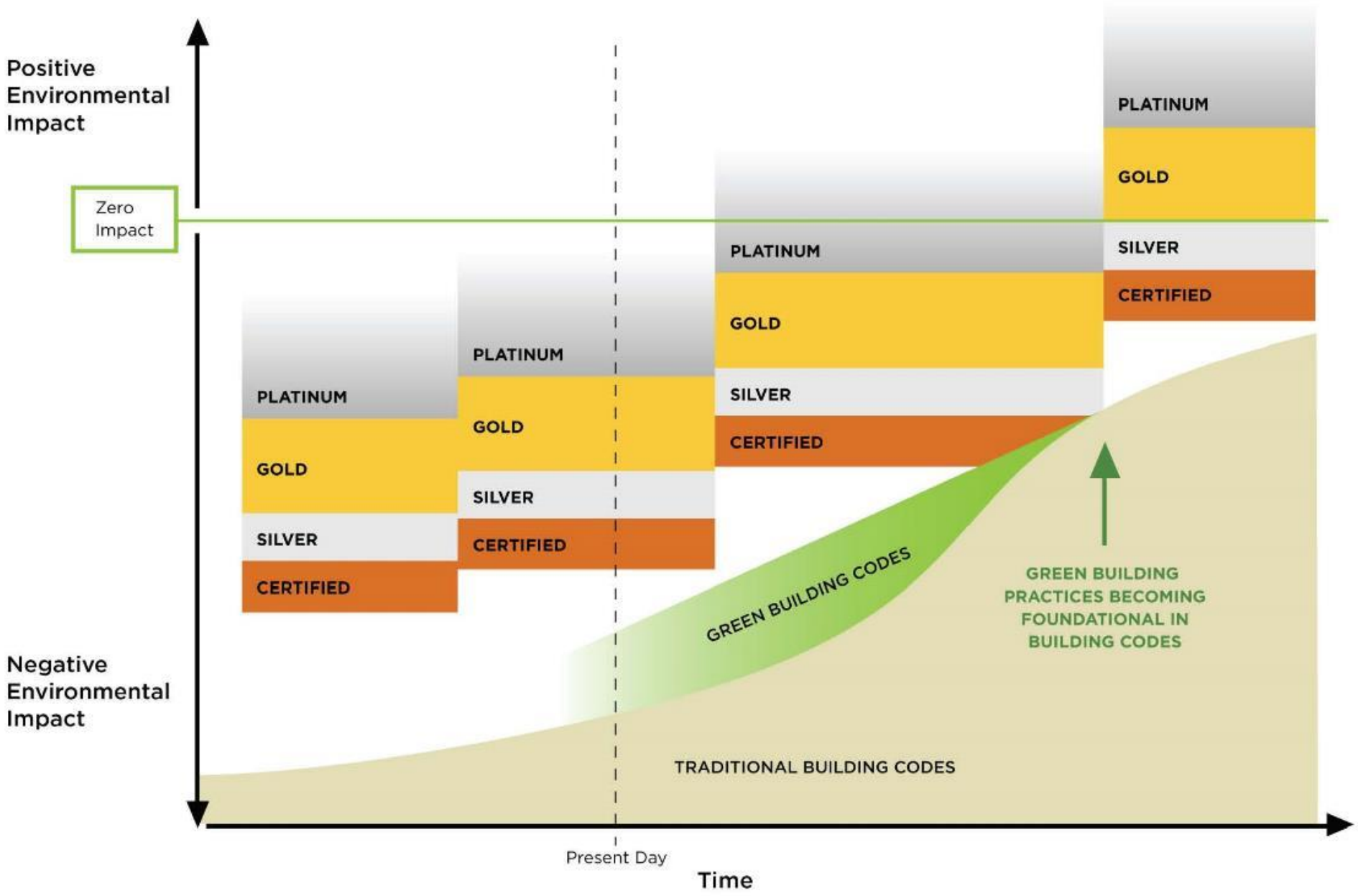
LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN
LEED
MetLife
U.S. GREEN BUILDING COUNCIL

LEED SYSTEM GOALS

- Reduce contribution to **global climate change**
- Enhance individual **human health**
- Protect and restore **water resources**
- Protect and enhance **biodiversity and ecosystem services**
- Promote **sustainable and regenerative** material cycles
- Build a **green economy**
- Enhance **community quality of life**

CREATIVE TENSION




Positive Environmental Impact
Zero Impact
Negative Environmental Impact
PLATINUM
GOLD
SILVER
CERTIFIED
PLATINUM
GOLD
SILVER
CERTIFIED
PLATINUM
GOLD
SILVER
CERTIFIED
PLATINUM
GOLD
SILVER
CERTIFIED
GREEN BUILDING CODES
GREEN BUILDING PRACTICES BECOMING FOUNDATIONAL IN BUILDING CODES
TRADITIONAL BUILDING CODES
Present Day
Time

Evolution of LEED

LEED v1.0-2.2
1998-2009
Strategy based

LEED 2009
2009-present
Analytically weighted

LEED v4
Nov. 2013
Outcome oriented

LEED v4

stronger energy performance

better materials

increased water efficiency

accounts for human experience

What's changed?

- Added new credit category
- Addresses 21 market sectors
- Includes international in requirements
- Focused on performance

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What hasn't changed

- 100 point based system
- Regional Priority points
- Innovation points
- LEED AP credential

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LEED shows the elements that go into a high-performance and sustainable built environment.

- Integrative Process
- Location and Transportation
- Sustainable Sites
- Water Efficiency
- Energy and Atmosphere
- Materials and Resources
- Indoor Environmental Quality
- Innovation
- Regional Priority

Beta
Optionally, this process can include betas that allow the market to work with the draft and provide feedback based on real-world application.
Proposals
Stakeholders can submit their ideas for LEED that will be reviewed by the LEED Steering Committee.
Comments
Public comment periods for the proposed updates are a critical part of the process and are open to all stakeholders, including both USGBC members and non-members.
Vote
Once a final draft has been approved by both the LEED Steering Committee and USGBC's Board of Directors, the draft is voted on by a consensus body balanced to represent USGBC's membership.
LAUNCH
Goals
Goals are determined, prioritized and presented to the LEED Steering committee for approval.
Draft
Staff and an incredible network of volunteers work together to propose the improvements that make up a new version of LEED.
LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN
LEED

LEED v4.1

Goals for v4.1

- Remove Market Barriers from v4
- Ensure Leadership
- Expand the Market
- Measure Performance

Arch Nexus | Sacramento, CA | LEED v4 Platinum

LEED v4.1

www.usgbc.org/leed-v41

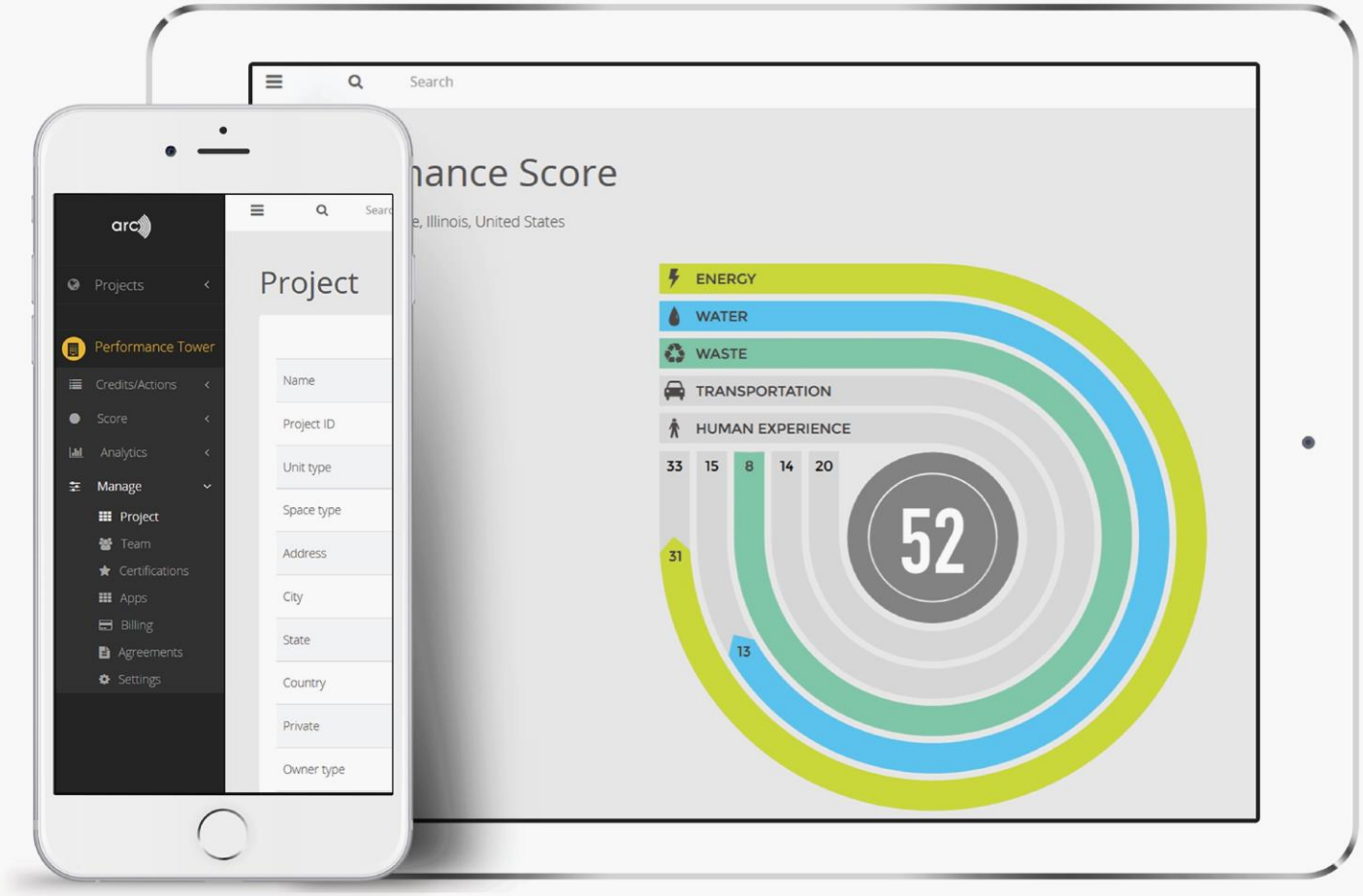
LEED FOR BUILDING OPERATIONS AND MAINTENANCE

Evolve LEED v4 O+M to be a data-driven rating system that incorporates both strategies and performance and is accessible to diverse existing buildings projects.

LEED v4.1 O+M: Existing Buildings Scorecard

LOCATION AND TRANSPORTATION		**14**
Prerequisite	Transportation Performance	14
SUSTAINABLE SITES		**4**
Credit	Rainwater Management	1
Credit	Heat Island Reduction	1
Credit	Light Pollution Reduction	1
Credit	Site Management	1
WATER EFFICIENCY		**15**
Prerequisite	Water Performance	15
ENERGY AND ATMOSPHERE		**35**
Prerequisite	Energy Efficiency Best Management Practices	Required
Prerequisite	Fundamental Refrigerant Management	Required
Prerequisite	Energy Performance	33
Credit	Enhanced Refrigerant Management	1
Credit	Grid Harmonization	1

MATERIALS AND RESOURCES		**9**
Prerequisite	Purchasing Policy	Required
Prerequisite	Facility Maintenance and Renovations Policy	Required
Prerequisite	Waste Performance	8
Credit	Purchasing	1
INDOOR ENVIRONMENTAL QUALITY		**22**
Prerequisite	Minimum Indoor Air Quality	Required
Prerequisite	Environmental Tobacco Smoke Control	Required
Prerequisite	Green Cleaning Policy	Required
Prerequisite	Indoor Environmental Quality Performance	20
Credit	Green Cleaning	1
Credit	Integrated Pest Management	1
INNOVATION		**1**
Credit	Innovation	1
TOTAL		**100 Possible Points**



Arc™ is a state of the art platform that helps collect, manage and benchmark building, community and city data to improve sustainability performance.

Arc is transforming green performance technology and bringing data, mobility and the most disruptive technologies available today to support a holistic approach to building our future.

SCORING 1-100

The building provides data across 5 categories to generate score:

- Energy
- Water
- Waste
- Transportation
- Human Experience

Performance score to **LEED certification**

Recertification

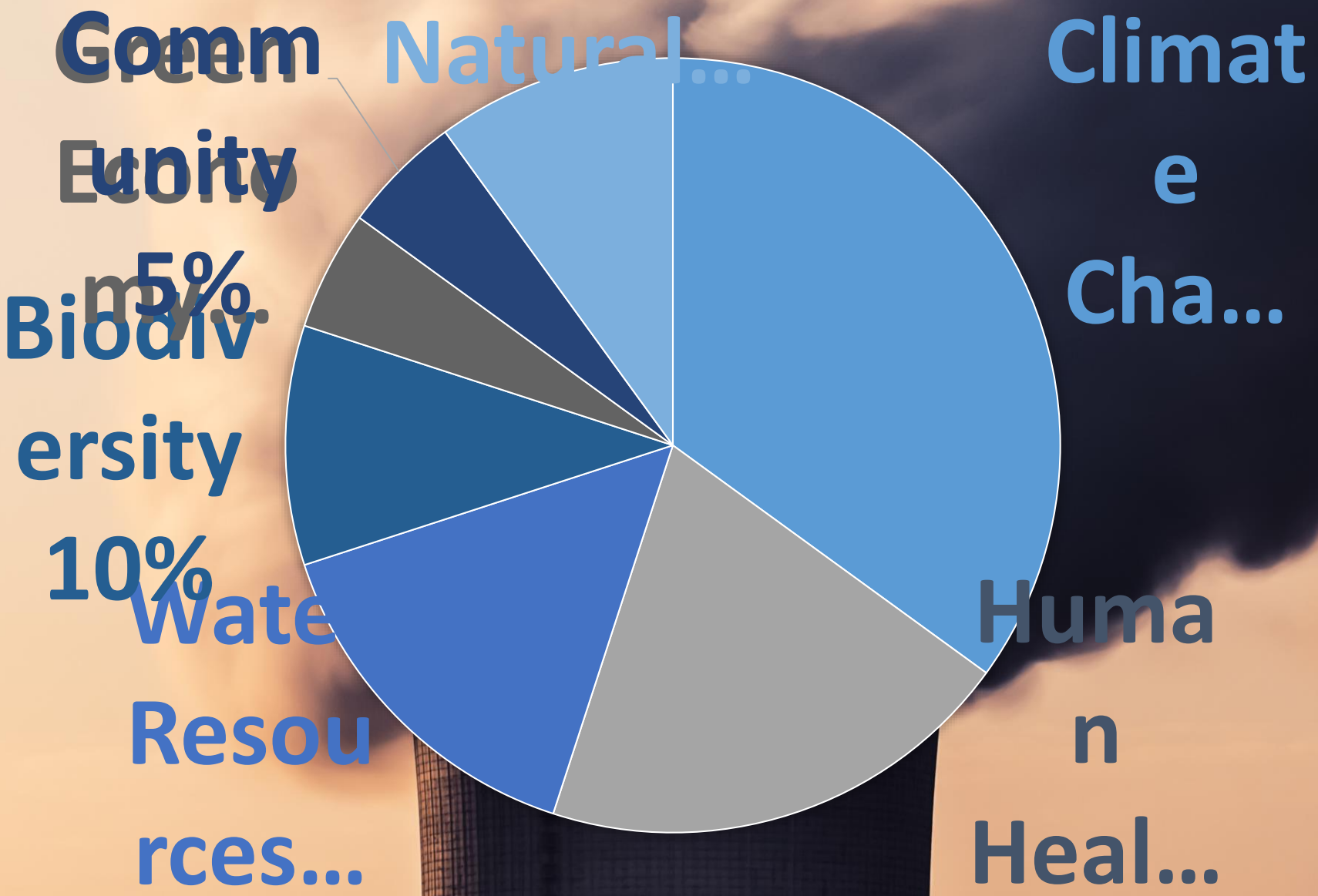
Available to all occupied and in-use projects that have previously achieved certification under LEED

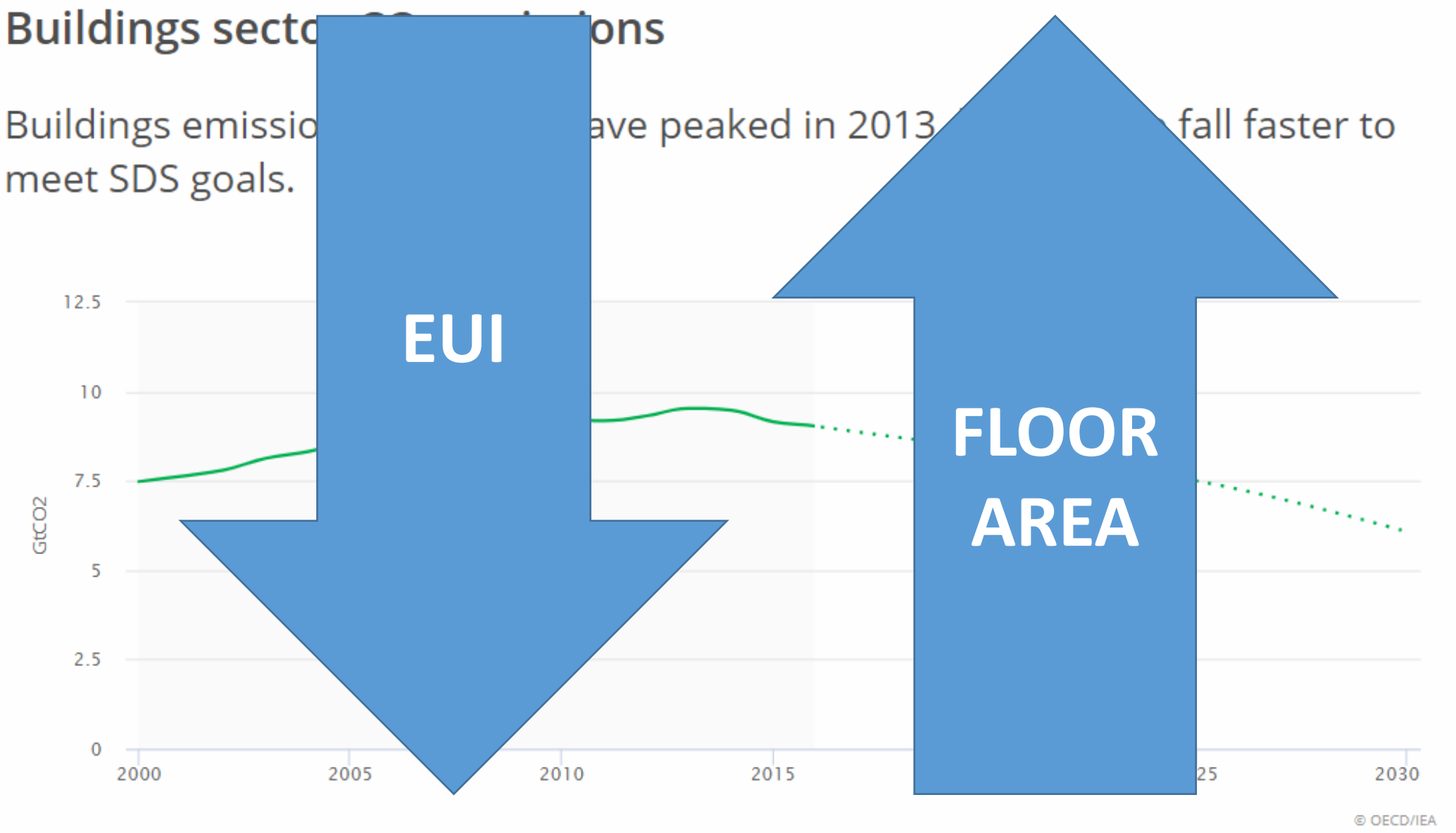
- **Step 1:** Review the Recertification Guide
- **Step 2:** Contact us to activate project's recertification
- **Step 3:** Provide 3 years of data

Once recertification is complete, your project will earn LEED for Operations and Maintenance (LEED O+M) certification under the newest available version of the rating system. Currently that is LEED v4.1. Recertification is valid for up to 3 years, though projects are encouraged to submit data annually.

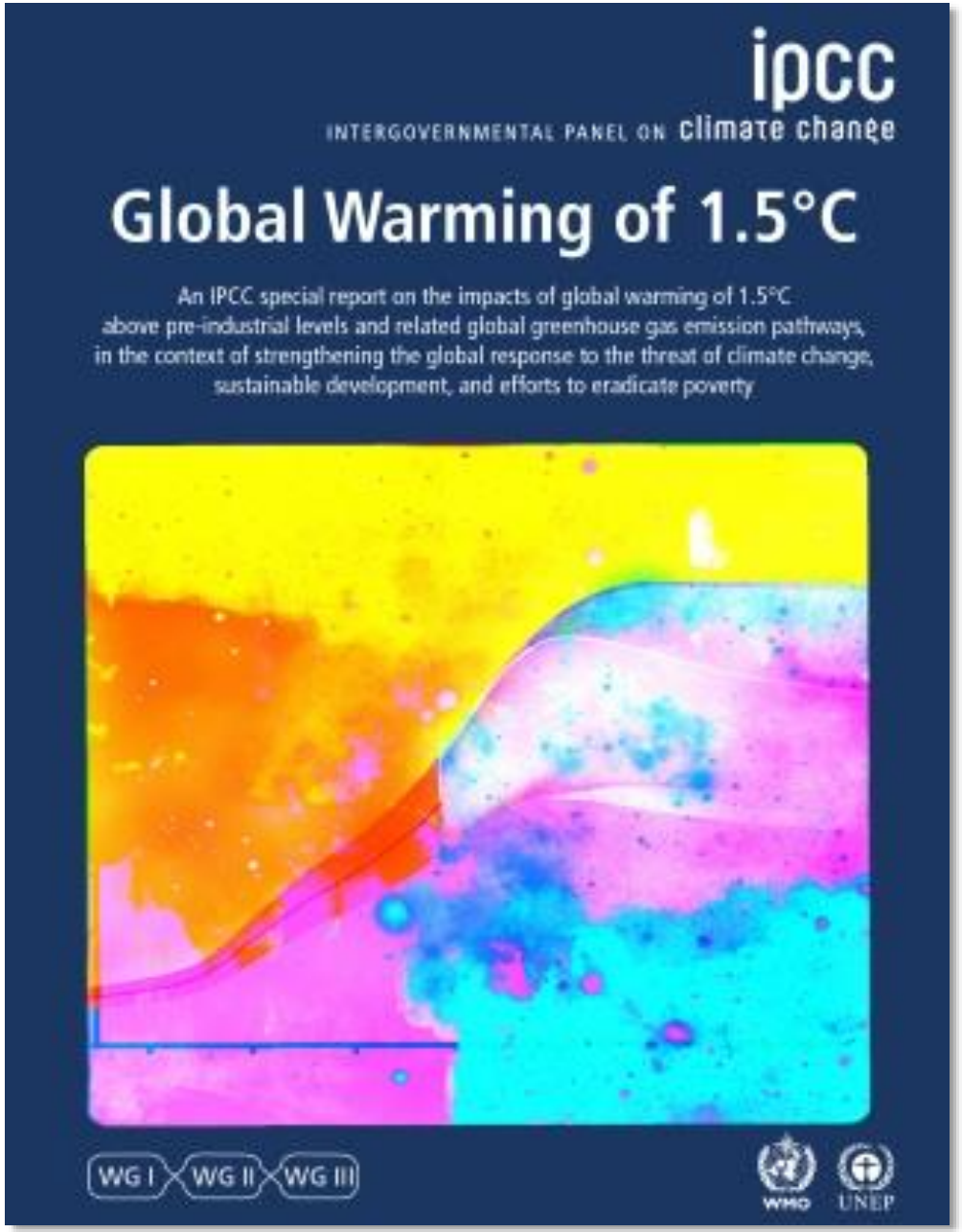
LEED® Zero

Why LEED Zero?


Green Economy 5%
Natural...
Community 5%
Climate Cha...
Biodiversity 10%
Water Resources...
Human Heal...

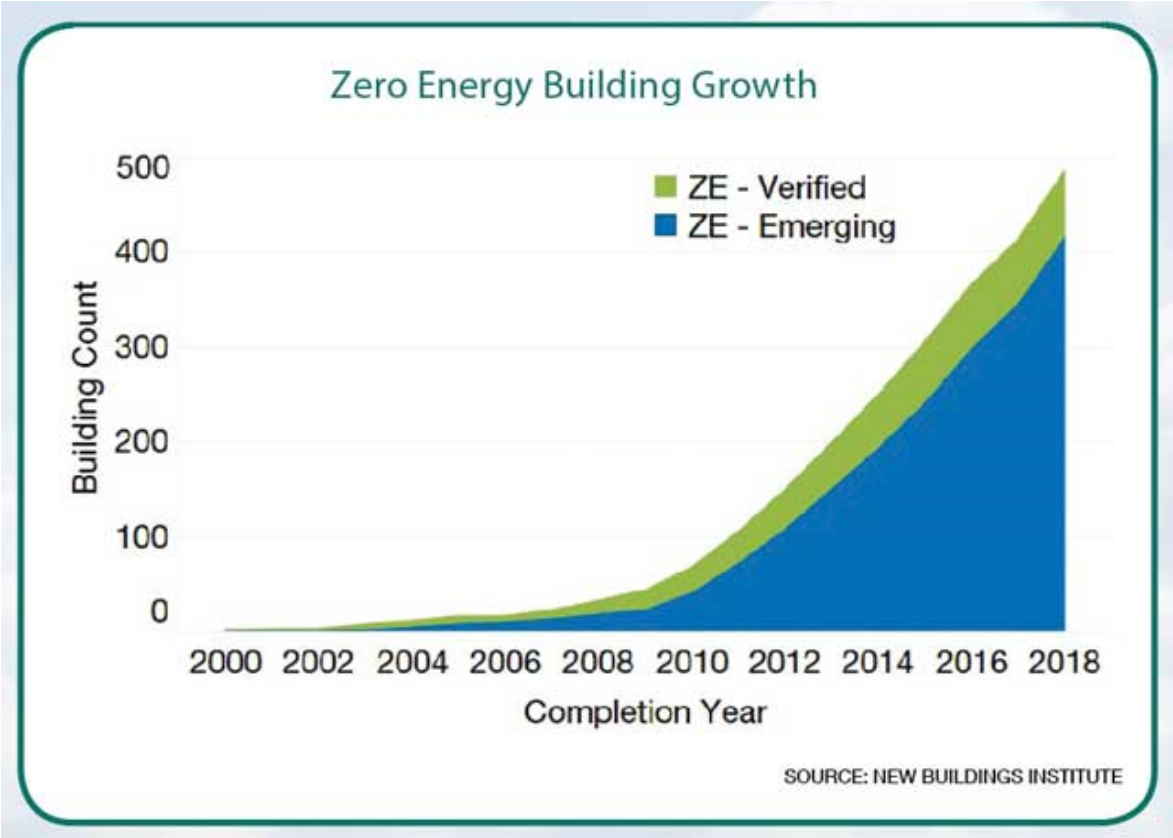


Source: International Energy Agency



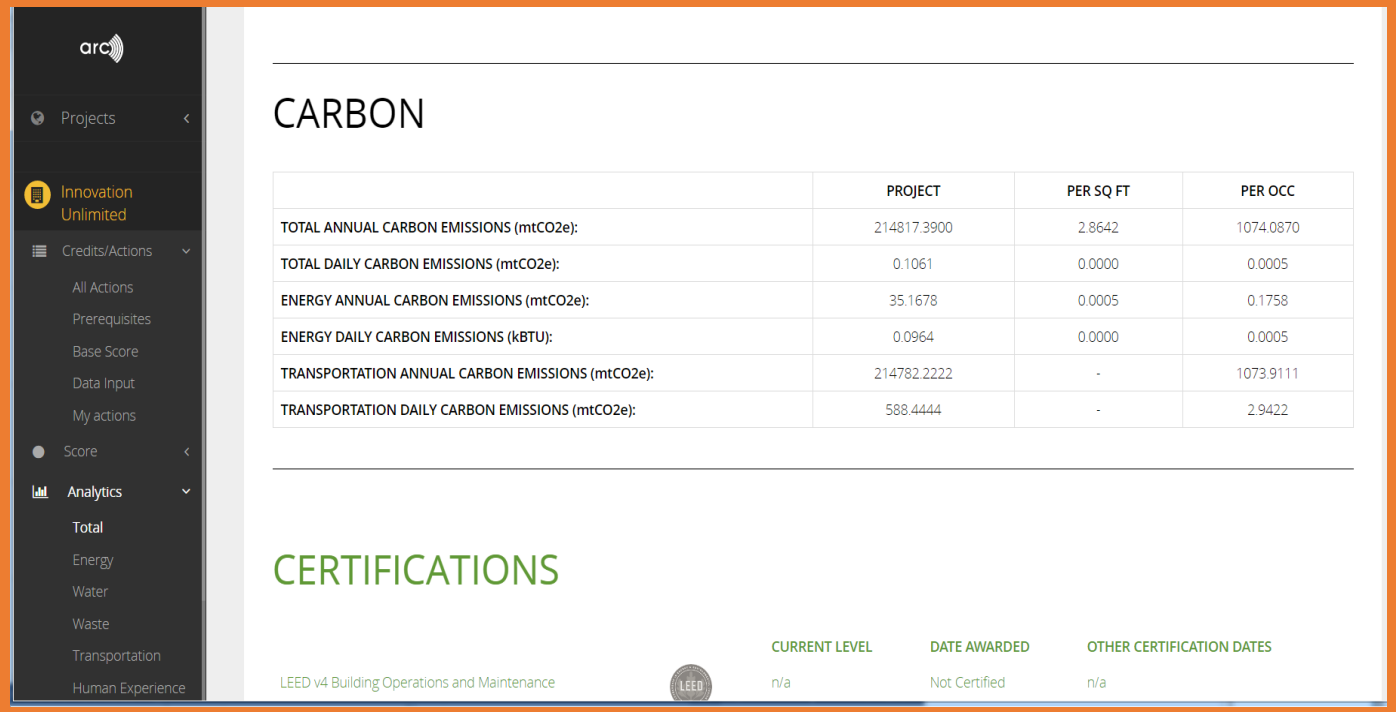
- All building emissions to be reduced by 80–90% by 2050;
- new construction must be fossil-free and near-zero energy by 2020; and
- increase the rate of energy rehab of existing buildings to 5% per year in developed countries.

Green building showing the path to scale



NATIONAL RENEWABLE ENERGY LAB (Colorado, U.S.)

- Largest net zero energy building in North America
- 33,445 m2
- LEED Platinum certified



Carbon Analytics for All Buildings

Net Zero Carbon Buildings Commitment launched at GCAS September 2018

C40 CITIES

WORLD GREEN BUILDING COUNCIL

The Net Zero Carbon Buildings Commitment

Commitment Signatories | Who can join? | FAQs

ADVANCING NET ZERO

LEED Zero Carbon

LEED Zero Energy

LEED Zero Water

LEED Zero Waste

LEED Zero Carbon

Carbon accounting approach over 12 months:

Carbon caused:

- Energy
- Transportation
- *In future: water, waste, embodied C in materials*

Carbon avoided:

- Renewable energy production
  - Calculated based on hourly emission factors
  - Hierarchy: on-site -> community -> off-site

LEED Zero Energy

Annual energy accounting approach:

Source Energy Balance = Total Energy Consumed – Total Renewable Energy Generated On-Site or Procured Off-site

LEED Zero Water

Annual water accounting approach:

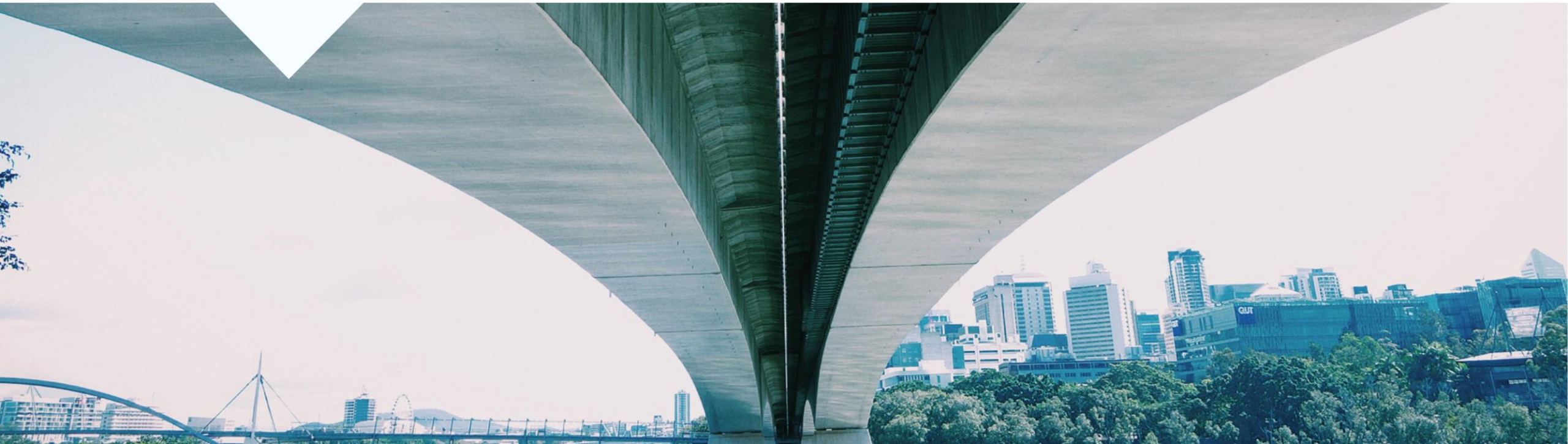
Water Balance	=	Total Potable Water Consumed	–	(Total Alternative Water Used + Water Returned to Original Source)

LEED Zero Waste

TRUE

GREEN BUSINESS™ CERTIFICATION INC.

Green Business Certification Inc. (GBCI®) is the premier organization independently recognizing excellence in green business industry performance and practice globally. GBCI is the only certification and credentialing body within the green business and sustainability industry to exclusively administer project certifications and professional credentials and certificates of LEED, PEER, WELL, SITES, GRESB and now, Parksmart.



PEER™ is a dynamic, adaptive rating process designed to measure and improve sustainable power system performance. The PEER system serves as a tool to accelerate transformation of the electricity sector. By engaging in the PEER process, power grids have an opportunity to gain competitive advantage by differentiating their performance, documenting the value produced, and demonstrating meaningful outcomes.

THE Sustainable SITES Initiative®

The **Sustainable Sites Initiative (SITES®)** offers a systematic, comprehensive rating system designed to define sustainable sites, measure their performance, and ultimately elevate the value of landscapes. Administered by GBCI, the SITES rating system can apply to development projects located on sites with or without buildings, including open spaces, streetscapes and plazas, commercial, residential, educational/institutional, infrastructure, government, military and industrial.

Parksmart is the world's only rating system defining and recognizing sustainable practices in parking structure management, programming, design and technology. Parksmart enables our parking structures to achieve increased energy efficiency, reduced environmental impact, improved parking space management, integrated mobility solutions and technologies, enhanced performance and stronger community relationships.

INTERNATIONAL
WELL
BUILDING
INSTITUTE™

The **WELL Building Standard**® is an evidence-based system for measuring, certifying, and monitoring the performance of building features that impact health and wellbeing. WELL is administered by the International WELL Building Institute (IWBI™), a public benefit corporation whose mission is to improve human health and wellbeing through the built environment. The WELL Building Standard is third-party certified by Green Business Certification Inc. (GBCI).

The **Global Real Estate Sustainability Benchmark (GRESB®)** is an industry-driven organization committed to assessing the sustainability performance of real estate portfolios around the globe. A dynamic benchmark used by institutional investors, GRESB creates transparency in the sustainability performance of the global real estate sector.

czork@usgbc.org

rsnow@usgbc.org

ebeardsley@usgbc.org

Better buildings are our legacy.