



BEYOND BENCHMARKING

NAVIGATING ENERGY PERFORMANCE

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BEYOND BENCHMARKING

NAVIGATING ENERGY PERFORMANCE

Sustainability at Scale: Portfolio Planning with LEED and PERFORM



Learning Objectives

1. Identify best practices and priorities in carbon, water, waste, and health to transforming real-estate portfolios.
2. Summarize the experiences of and sustainability & resilience strategies utilized by leading companies to drive scaled performance improvement across their existing building portfolio.
3. Recognize barriers and practical solutions to large-scale action in the rapidly evolving sustainability and climate reporting landscape.
4. Define the role and value of third-party verification of existing building portfolio-wide sustainability & resilience plans, actions, and performance.

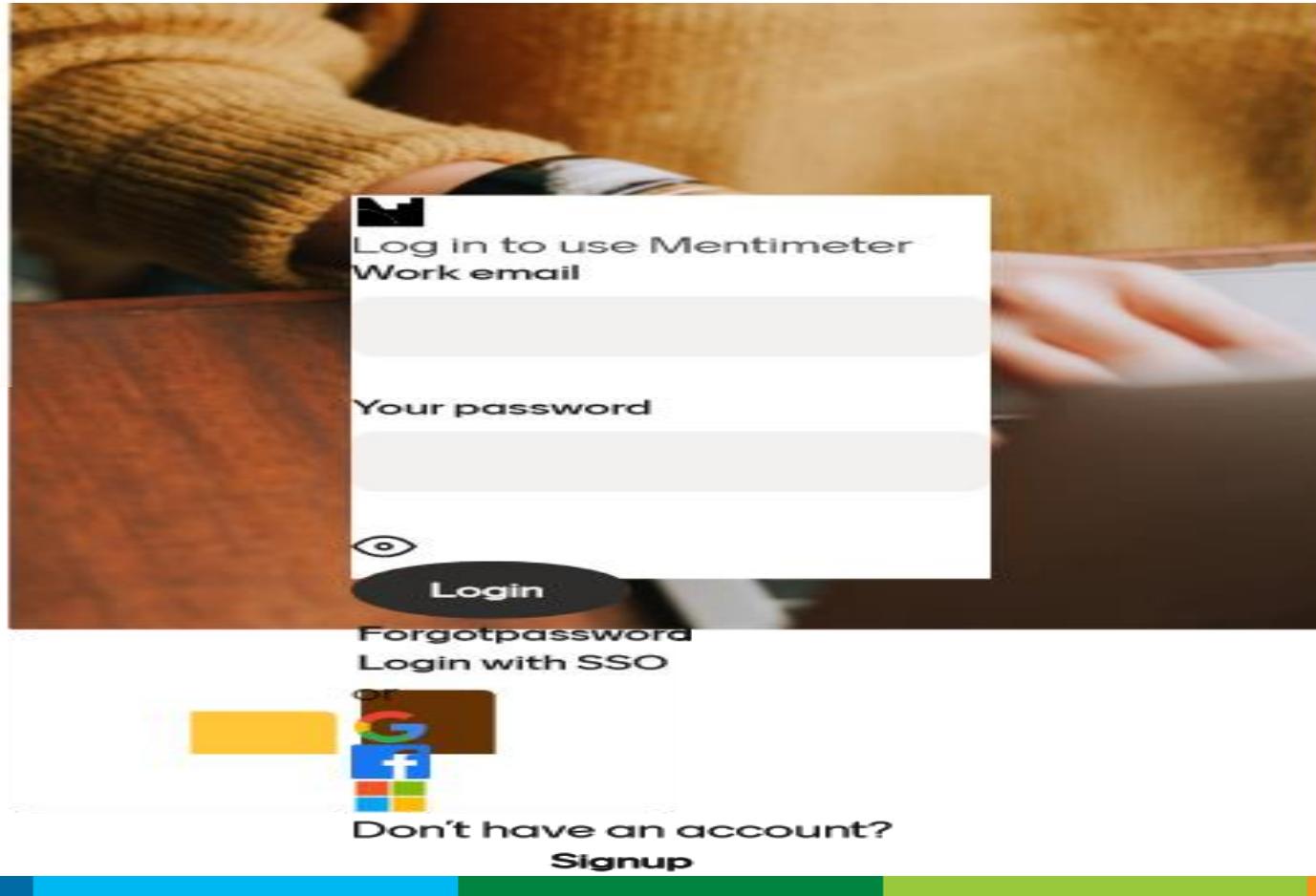


Sade Dennis
U.S. Green Building Council
Director, DC-MD-VA
Market Transformation & Development



Ryan Snow
U.S. Green Building Council
Regional Director, South
U.S. Market Transformation & Development

Mentimeter: Who is in the room?



Accelerating green building to improve lives and livelihoods

USGBC accelerates and scales the transformation of the built environment to minimize climate impacts and enhance the well-being of people, the environment and communities worldwide.



Bay Area Metro Center | LEED Gold | Photo credit: © David Wakely Photography

USGBC Strategic Imperatives

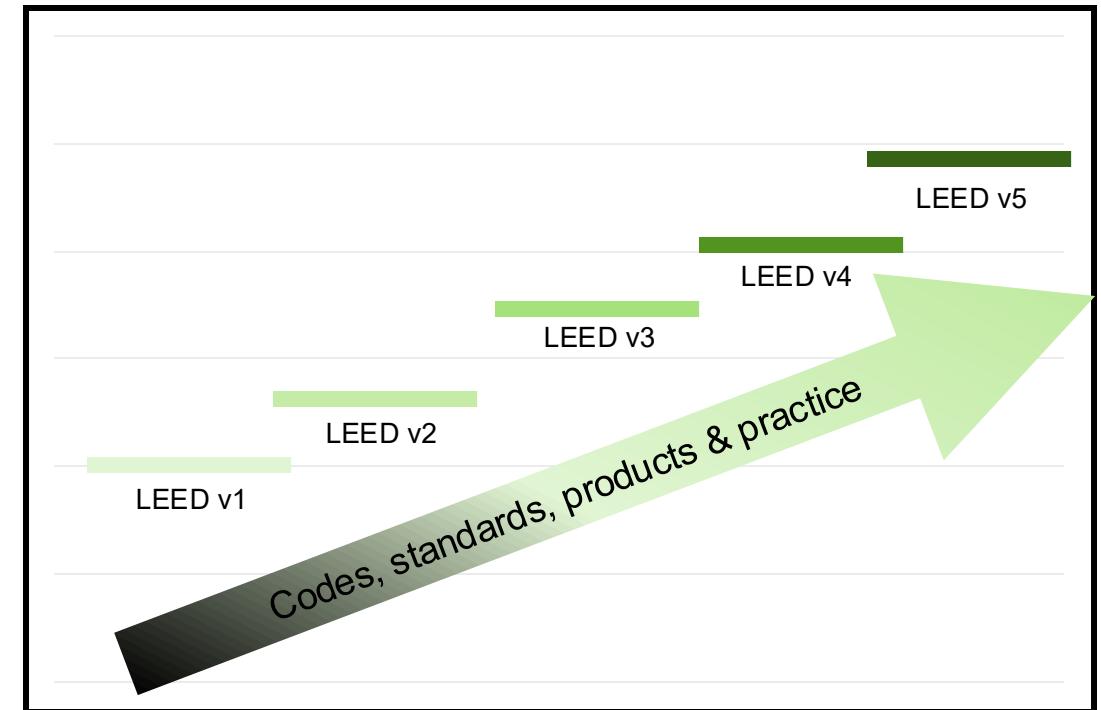
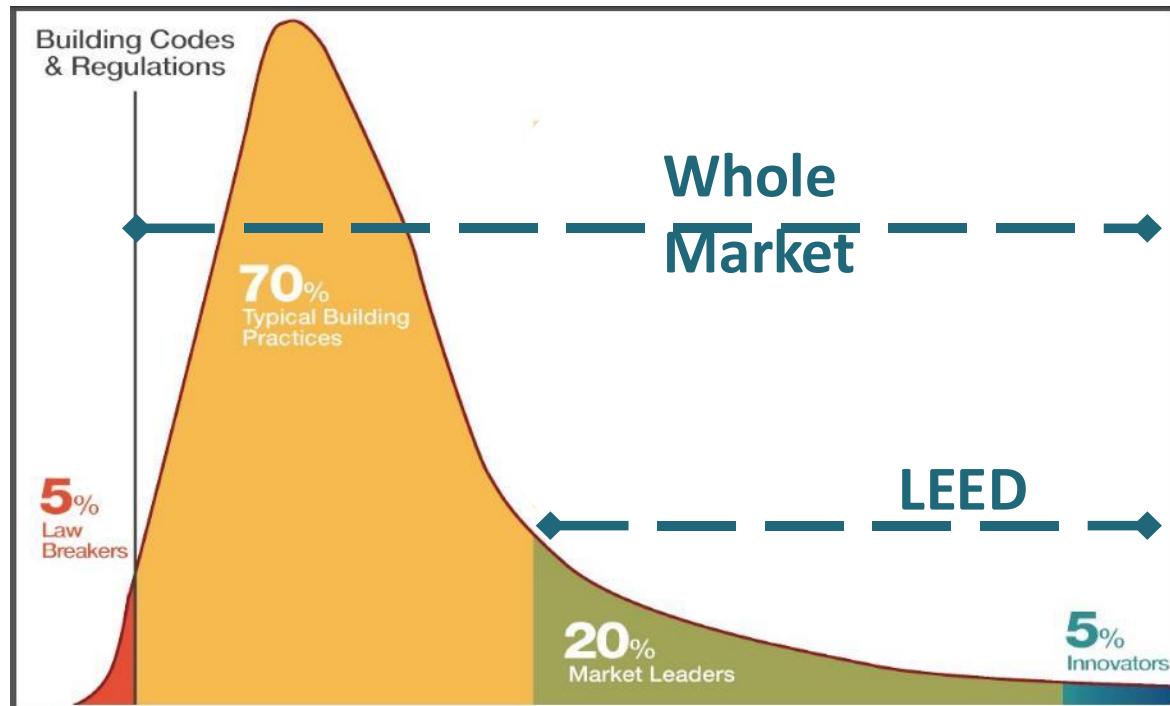
USGBC's & GBCI strategic imperatives are key organizational strategies to advance our mission. These imperatives will guide our 2024 to 2026 work.



- 1. Expand** the global green building community of practice and its influence.
- 2. Accelerate** the role of buildings in decarbonizing economies and promoting equitable, healthy, and resilient communities.
- 3. Align** green building with frameworks and technologies driving equitable systems change and market transformation at scale.
- 4. Ensure** access to green building for under-resourced populations and all communities.
- 5. Achieve** organizational excellence and effectiveness.

Tools for Market Transformation

LEED was developed to drive transformation through leadership.





Boston Public Market | LEED Silver | Boston, Massachusetts
Photo credit: Architerra and Chuck Choi

More than
2,000,000
certified square feet
per day

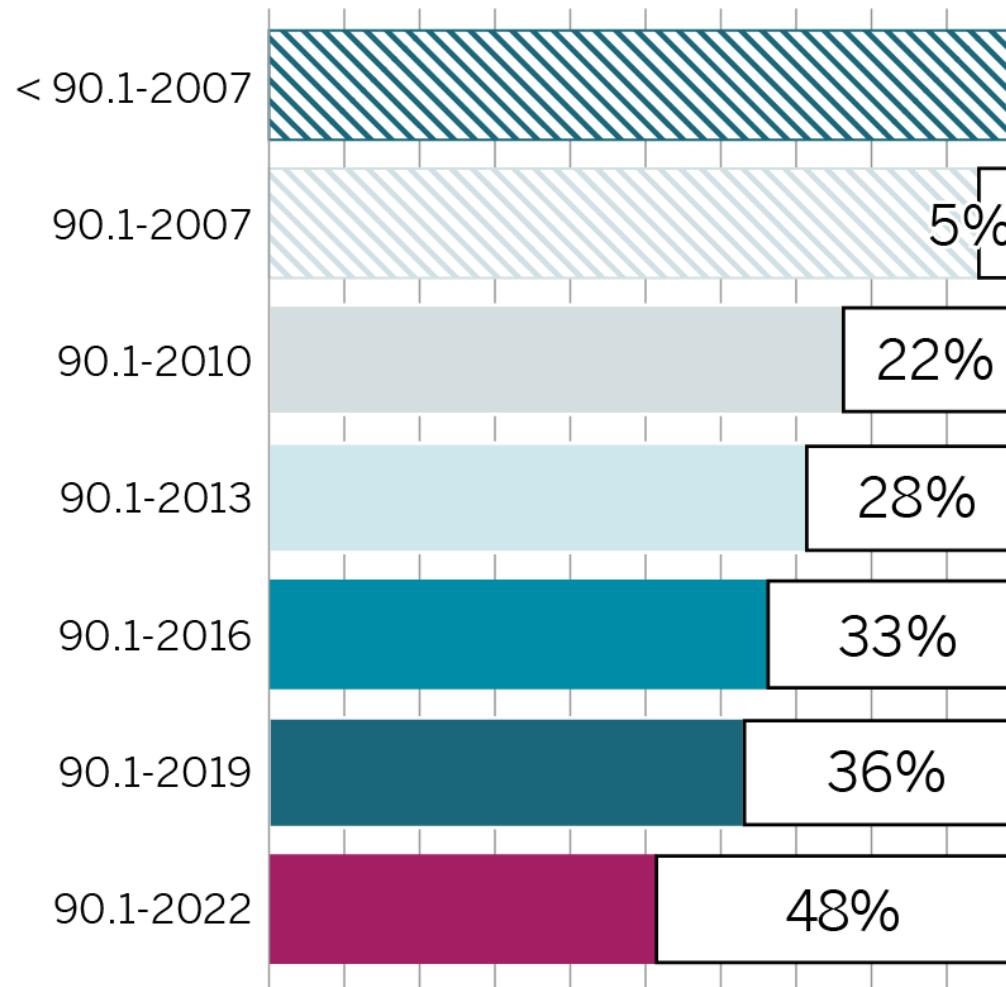
Nearly
197,000

total registered and
certified **LEED projects**
worldwide



Grupo Roble - Multiplaza Bogota | LEED Platinum
Bogota, Colombia | Photo credit: © Ricardo Canino

Commercial Energy Improvements by ASHRAE 90.1 Version



Driving green building

Business benefits driving green building:

Decreased operating costs

Short payback periods

Asset value increases

Creating healthier indoor environments

TOP TEN STATES **FOR LEED IN 2024**

#1 MASSACHUSETTS

#6 CALIFORNIA

#2 ILLINOIS

#7 TEXAS

#3 NEW YORK

#8 NEVADA

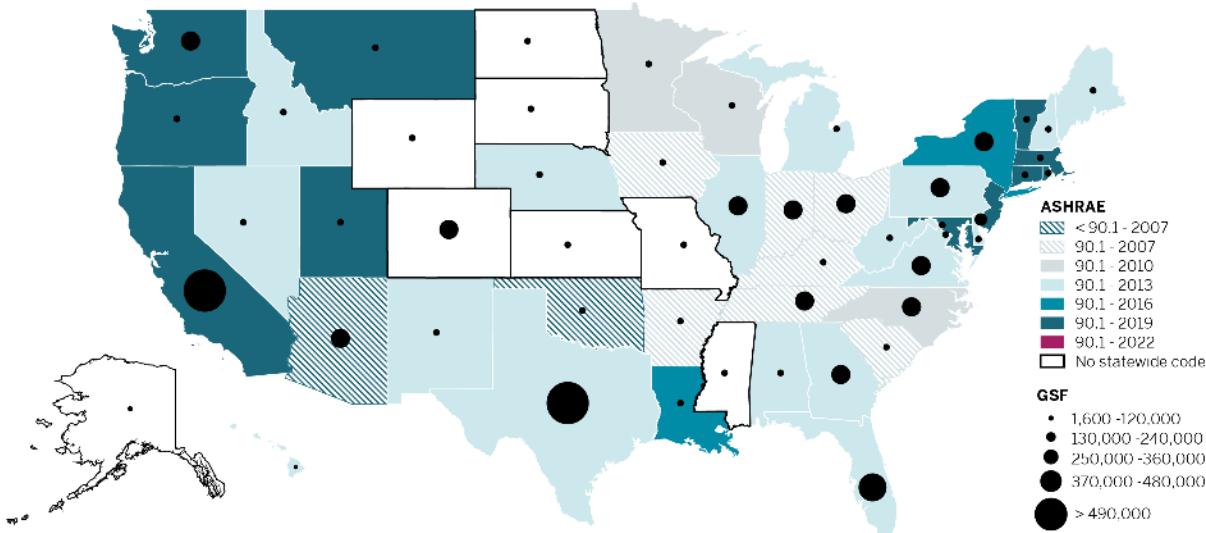
#4 WASHINGTON

#9 COLORADO

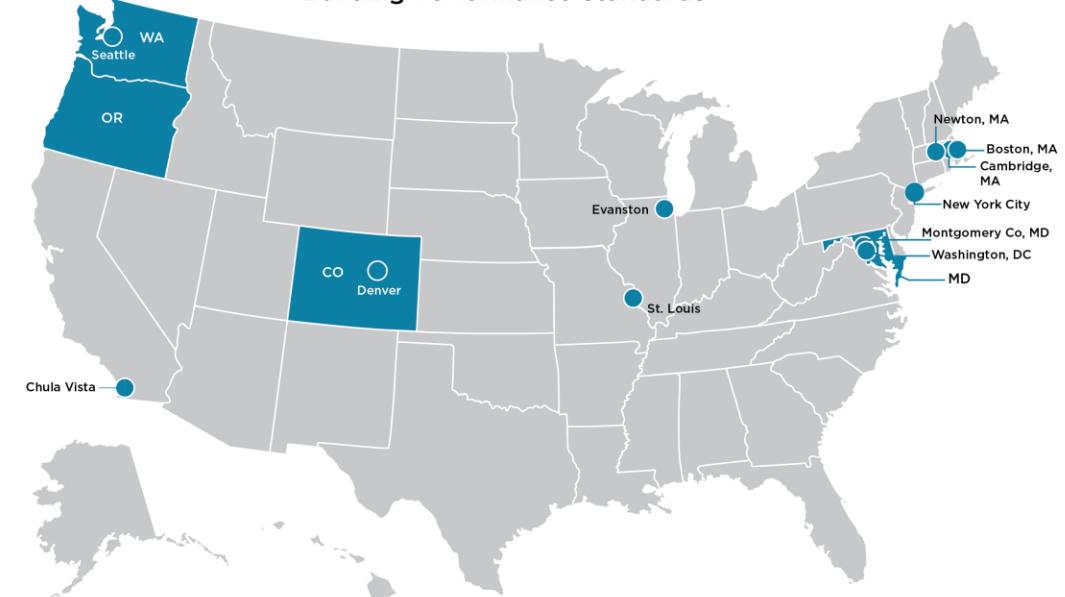
#5 MARYLAND

#10 VIRGINIA

State Energy Codes & BEPS



U.S. City and State Policies for Existing Buildings:
Building Performance Standards



© Copyright 2025 Institute for Market Transformation. Updated 3/2025.



Drawing on three decades of experience and the deep expertise of our members, we are leading a movement to create measurable improvements to enhance human, environmental, and community well-being worldwide.



Mentimeter: What are your priorities for sustainability?

Join at menti.com | use code 8595 7763

Mentimeter

SH

What is your role

transpiration

bold

creative

fast

leader

focus

inspiration

Menti

20250409_MCES-USG...

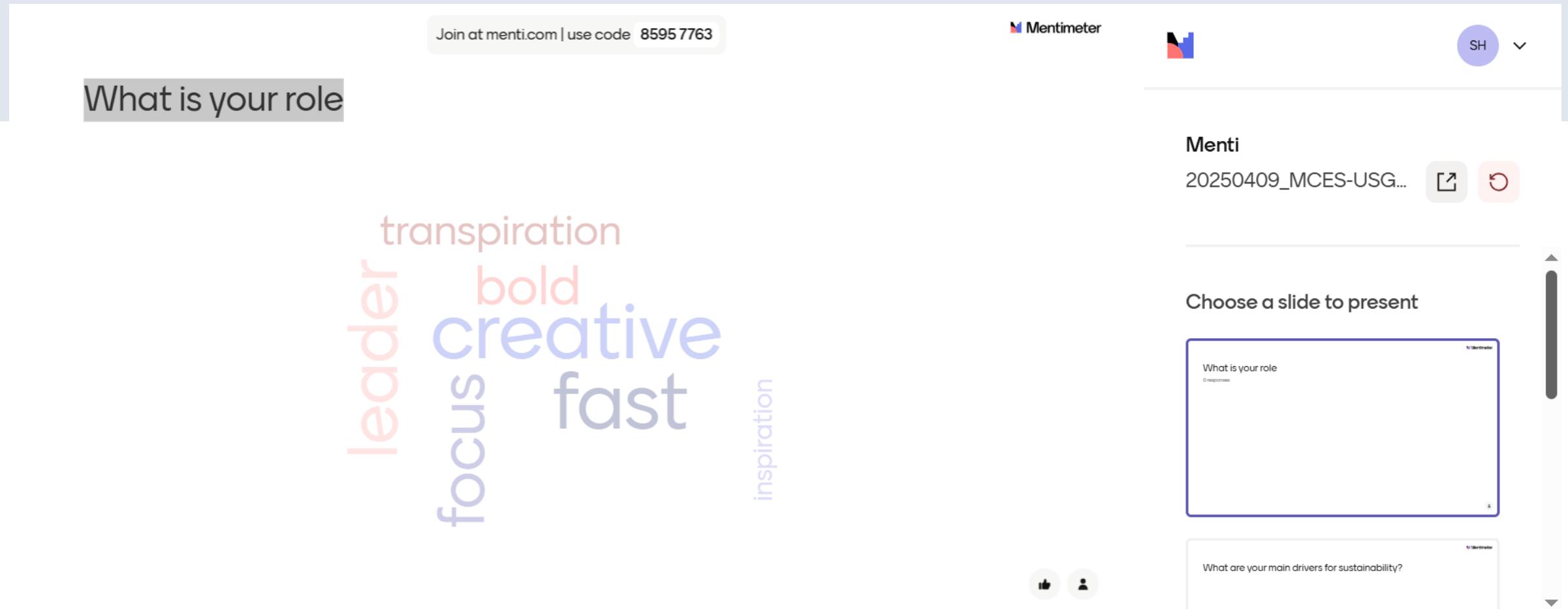
Choose a slide to present

What is your role

0 responses

What are your main drivers for sustainability?

USGBC



What we're going to cover

LEED v5

Driving the market towards a near-zero carbon reality that is equitable, resilient, and promotes the wise, safe use of all resources

PERFORM

A program to plan, improve, and verify sustainability and resilience performance across portfolios.

Arc

A platform of tools to measure and score operational performance for any space or building.



A market ready rating system that will drive the built environment toward a near zero carbon future that is equitable, resilient, and promotes the wise, safe utilization of all resources.



LEED V5





State of Decarbonization

Progress in U.S. Commercial Buildings 2023



ARUP

ACCESS THE REPORT



**U.S. commercial buildings
have significantly lowered
their carbon and energy
intensity over the past three
decades.**

**The need for comprehensive
benchmarking policies for
commercial buildings is
impeding decarbonization
progress at scale.**

**In the U.S.*

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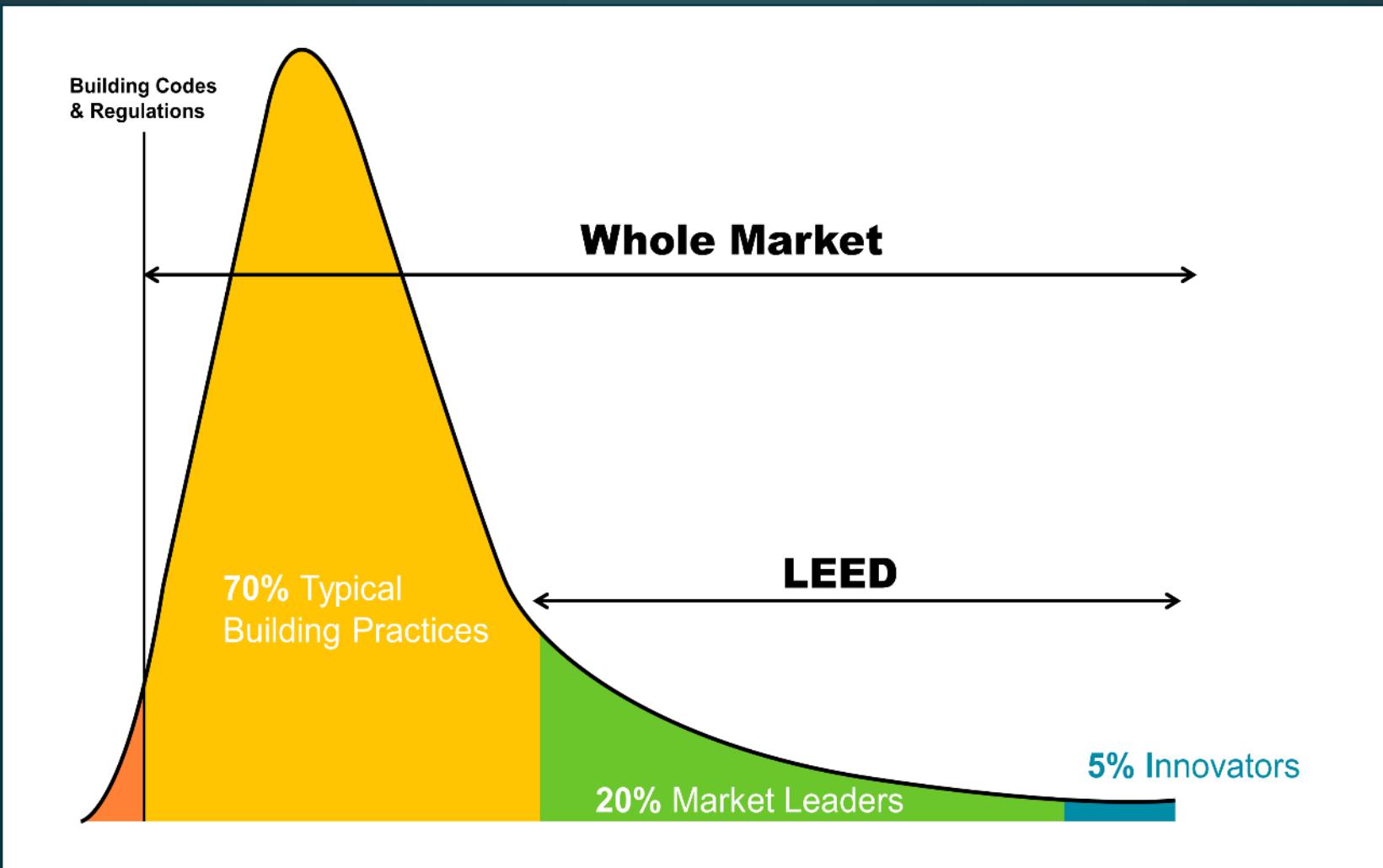
Arc

A platform of tools to measure and score operational performance for any space or building.



Performance. Verified.

Imperative to engage ALL EXISTING BUILDINGS

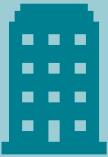


“PERFORM helps organizations advance sustainability across their real estate portfolios, ensuring every building—**regardless of type or starting point**—contributes to achieving organizational performance goals.”

Peter Templeton

PRESIDENT & CEO, USGBC AND GBCI

LEED AND PERFORM



LEED

LEED Rating System

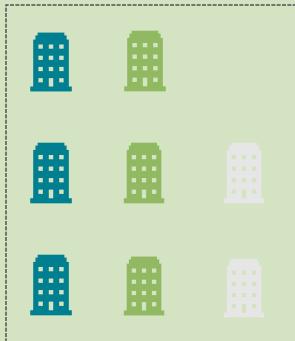
Credits and prerequisites
with performance thresholds

Demonstrated achievement
of defined performance

LEED Certification

GBCI®

Achievement
certified



PERFORM

PERFORM Performance Metrics

Performance metrics with no
minimum thresholds

Demonstrated progress on user-
defined performance targets

PERFORM Verification

GBCI®

Outcomes
verified

Portfolio Definition

- A portfolio is a collection of real estate assets (properties) owned, managed, or controlled by the participating organization.
- The defined portfolio must include all underlying properties associated with the performance goals/claims/targets being tracked, reported and/or verified.

Define portfolio by

- Whole Portfolio
- By Reporting frameworks
- By Region
- By Business unit
- By Type of property
- By Owned properties
- By Leased properties



Portfolio Scope

- Communicate scope of portfolio accurately
- Existing operational properties
- No new construction or major renovations



Why PERFORM?

Set goals and measure progress on portfolio-wide performance

View guidance & access tools to improve performance

Track and improve the sustainability performance of entire real-estate portfolios.

Receive third-party Verification of performance, if desired

Communicate progress to stakeholders & enhance credibility

Performance Metrics

- All metrics considered optional
- Select one or more metrics
- User-defined targets and interim targets
- No minimum thresholds with each metric
- Past performance improvement can be entered and verified
- Align with referenced standards and requirements

Metrics Structure

- INTENT
- DEFINITION
- UNITS OF MEASURE
- VERIFICATION SCOPE
- REQUIREMENTS
- VERIFICATION EVIDENCE
- CALCULATION GUIDANCE
- REFERENCES
- TERMINOLOGY



arc

PERFORM

Performance Metrics

EMISSIONS

- GHG Emissions
- GHG Emissions Intensity

ENERGY

- Energy Use
- Energy Use Intensity
- Renewable Energy

WATER

- Water Use
- Water Use Intensity

WASTE

- Waste Diversion

HEALTH

- Occupant Satisfaction Survey
- IAQ Monitoring
- IAQ Testing
- Worker Health & Safety Plan

BIODIVERSITY

- Biodiverse Habitat

RESILIENCE

- Physical Climate Risk Screening
- Physical Climate Risk Assessment
- Climate Transition Risk Assessment
- Operational Planning for Resilience

SOCIAL IMPACT

- Social & Community Impact Assessment
- Area Designated for Community Use
- Community Investment

Metrics Snapshot

Category	Performance Metric	Performance Approach A (absolute performance)	Performance Approach B (performance change)
Emissions	Total GHG Emissions	Total GHGs	Total GHGs
	GHG Emissions Intensity	GHGs/unit area	GHGs/unit area
Energy	Total Energy Use	Total energy	Total energy
	Energy Use Intensity	Energy/unit area	Energy/unit area
	Renewable Energy Use	Ren Energy(RE) or % RE	Ren Energy (RE) or % RE
Water	Total Water Use	Total Water	Total Water
	Water Use Intensity	Water/ unit area	Water/ unit area
Waste	Total Waste Diversion	% waste diverted	% waste diverted
Health	Occupant Satisfaction	% or # of properties	% of properties
	Worker Health and Safety Plan	% or # of properties	% of properties
	Indoor Air Quality Monitoring	% or # of properties	% of properties
	Indoor Air Quality Testing	% or # of properties	% of properties
Resilience	Physical Climate Risk Screening	% or # of properties	% of properties
	Physical Climate Risk Assessment	% or # of properties	% of properties
	Climate Transition Risk Assessment	% or # of properties	% of properties
	Operational Planning for Resilience-Emergency Response Plan	% or # of properties	% of properties
	Operational Planning for Resilience-Business Continuity Plan	% or # of properties	% of properties
	Protected and/or Restored Biodiverse Habitat	Area or % Area	Area or % Area
Social Impact	Social and Community Impact Assessment	% or # of properties	% of properties
	Area Designated for Community Use	Area or % Area	Area or % Area
	Community Investment	% or # of properties	% of properties

Performance Approaches



A

Absolute performance in reporting year

- Track and seek verification for a single absolute value.
- Depending on the metric, this value may be a number (e.g., total greenhouse gas (GHG) emissions) or a percentage (e.g., waste diversion rate).



B

Performance change/improvement from a baseline year

- Track and seek verification for the improvement in performance in the reporting year from a user-defined baseline year. (e.g., GHG emission reduction of 5% in reporting year compared to baseline year)
 - % change: $(RY-BY/BY)*100$
 - % point change: $(RY\%-BY\%)*100$

RY= Reporting Year

BY= Baseline Year

Examples



A

Absolute performance in reporting year

- Target: Achieve a waste diversion rate of 75% in 2024
- Target: My portfolio's emissions for 2024 were 20,000 MTCO2e.
- Target: Implement the Resilience: Business Continuity Plan across 100% for all office locations by end of 2025.
- Target: Our organization completed occupant satisfaction surveys for 50% of our properties in 2024.



B

Performance change from a baseline year

- Target: Reduce energy use by 50% by 2030 from a 2020 baseline.
- Target: Demonstrate 40% improvement in waste diversion rate from 2023 to 2025.

Verification

- Global third-party verifier
- Third-party review procedures described in GBCI Verification Protocols published on GBCI website.
- Informed by ISO/IEC 17029:2019 Conformity assessment - General principles and requirements for validation and verification bodies

Verification Evidence



Portfolio-Level Documentation

- Policies
- Plans and Actions
- Portfolio-wide templates
- Methodology
- **Letters of Attestation, streamlined by using the GBCI template**



Property-Level Documentation

- **Property Level Data Form:** data for every single property in the portfolio
- **Property Level Sample Documents:** documents for a *sample* of properties
 - Sample size: $\text{SQRT}(n)$ properties where 'n' is the number of properties in the portfolio.
 - Performance Metrics document includes requirements
 - Example: Physical Climate Risk Screening, risk identification, exposure analysis and mitigation strategies, or demonstrate the completion of any referenced tools or checklists.

Property-Level Documentation

Property Level Data Form

Provide property level verification evidence with this form, or other items prepared for internal tracking or other reporting entities like GRESB, ENERGY STAR Portfolio Manager, etc

 **PERFORM**

Property Level Data Form
This workbook supports your Portfolio's enrollment and is required to be completed.

INSTRUCTIONS

1. Navigate to tab of relevant metric(s). Select all combinations of Performance Metrics and Approaches being submitted for verification. If available, select relevant unit used within tab.
2. Provide the requested information for all properties in your defined portfolio. Copy over information from Multiple Property Upload Template into Grey Columns (A-H).
3. Provide additional data based on metric and approach being submitted for verification. Relevant additional fields will highlight based on choice in Step 1.
4. **Column B** gross floor area must exclude area dedicated to parking.
5. Follow all instructions within cells throughout tabs.
6. When all information is complete, upload the template back to the platform.
7. Save a copy of this for your records to refer to as you pursue verification.

KEY TERMS TO KNOW

Portfolio: A collection of real estate assets owned, managed and/or controlled by the legal entity (organization) participating in the program. The defined portfolio must include all underlying real estate assets associated with the performance goals/claims/targets being verified.

Properties: The Real-estate assets that the portfolio is comprised of, including both the buildings and any associated land.

Performance Category: Key impact areas to measure, track and verify sustainability performance of a portfolio.

Performance Metric: Key indicator to measure, track and verify performance outcomes of portfolio.

Target: User defined goal to achieve desired performance outcome by a user-defined date.

Interim Target: User defined goals to demonstrate incremental progress toward the defined target.

Percentage of Properties: Percentage of properties in the portfolio where a performance metric has been implemented, calculated by the formula:
$$(\text{Number of properties where metric has been implemented} / \text{Total number of properties in portfolio}) \times 100$$

Percentage Change: Change in performance from a baseline year, calculated by the formula:
$$((\text{RY} - \text{BY}) / \text{BY}) \times 100 = \% \text{ Change}$$

RY = Reporting Year Value
BY = Baseline Year Value

Percentage Point Change: Change in performance from a baseline year, calculated by the formula:
$$\text{RY\%} - \text{BY\%} = \% \text{ point change}$$

RY = Reporting Year Value
BY = Baseline Year Value

Performance Approaches: Ways in which performance may be measured and verified.

Performance Approach A: Measures absolute performance of a metric.

Performance Approach B: Measures change in performance of a metric from a baseline or previous year.

Baseline Year: A specific year (12-month period) that is used to track changes and improvements in performance over time.

Reporting Year: The most recent or current year (12-month period) for which performance is being tracked and submitted for verification.

Gross Floor Area: Gross floor area is the sum of the floor areas within a building excluding floor area dedicated to parking and the circulation of motor vehicles, non-enclosed areas, non-enclosable areas and roofed areas.

Portfolio Gross Floor Area: Sum of total gross floor area across all properties within the portfolio.

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Contact us if you have any questions.

Portfolio-Level Documentation

Letter of Attestation Template

From senior/executive leadership or the individual/entity calculating the metric confirming that the baseline year data was calculated in a similar manner as the reporting year OR third-party verification of baseline year data. *If baseline year data was previously verified by GBCI, this evidence is not required.*

Prepared for: GBCI Verification Team

Prepared by:

Organization Name:

Organization Address:

Email:

Date:

Portfolio ID and Name:

Subject: Letter of Attestation

I am providing this letter of attestation as supporting documentation for verification of the percentage change claim for the performance metric(s) selected below.

Performance Summary

Baseline Year Period: (mm/dd/yyyy) to (mm/dd/yyyy)

Reporting Year Period: (mm/dd/yyyy) to (mm/dd/yyyy)

Performance Metric	Baseline Year Value	Units	Reporting Year Value	Units	% change
<input type="checkbox"/> GHG Emissions	NA	NA	NA	NA	NA
<input type="checkbox"/> GHG Emissions Intensity	NA	NA	NA	NA	NA
<input type="checkbox"/> Energy Use	NA	NA	NA	NA	NA
<input type="checkbox"/> Energy Use Intensity	NA	NA	NA	NA	NA
<input type="checkbox"/> Water Use	NA	NA	NA	NA	NA
<input type="checkbox"/> Water Use Intensity	NA	NA	NA	NA	NA
<input type="checkbox"/> Waste Diversion	NA	NA	NA	NA	NA

Baseline Year Data Methodology:

[Provide a narrative detailing the data collection and internal review processes which include any referenced frameworks, standards, methodology, guides, or protocols used to determine the baseline year data.]

Verification

- Two rounds of review: Preliminary Review Report and Final Review Report
- Verification Letter with Portfolio Name, Performance Metrics and Dates
- Communicate with stakeholders, external organizations, disclosure frameworks with confidence

PROMOTE VERIFICATION ACHIEVEMENT



ABC Corporation
12 Downing Street
Washington, DC

Date: 11/08/2024

Subject: PERFORM Verification Letter for 10001 ABC Corp Retail Portfolio

Dear Mary Jane,

Congratulations on completing the PERFORM verification engagement with GBCI. This letter serves as a formal statement of verification for 10001 ABC Corp Retail Portfolio, owned and managed by ABC Corporation

Portfolio Information

Portfolio Name	<u>ABC Corp Retail Portfolio</u>
Portfolio Owner Organization	ABC Corporation
Scope of Portfolio	Office properties
Portfolio Gross Floor Area	1,000,000 square feet
Number of Properties in Portfolio	200
Property Types in Portfolio	Offices

Responsibilities

The portfolio owner organization and its designated team members were responsible for gathering and providing the required evidence for verification and [GBCI](#) was responsible for completing a third-party review of the submitted evidence and issuing this statement of verification.

Verification Scope

The scope of verification included third-party review by GBCI of the verification evidence (documentation and measured and calculated data) provided by the organization in accordance with the requirements outlined in the [PERFORM Performance Metrics](#) defined and published by US Green Building Council (USGBC). The evidence was comprised of both portfolio level information (such as policies, data collection methodologies, etc.) and property level information (such as property level data and samples of property level documents). This information was collected and reviewed via a systematic and pre-defined engagement process as outlined in the [PERFORM Program Guide](#).

Specifically, the scope of verification included the following:

1. GHG Emissions: Verification of total GHG emissions (scope 1 and scope 2) across the defined real estate portfolio for the reporting year.

Verification Protocols

GBCI provided a limited assurance¹ engagement informed by ISO/IEC 17029:2019 Conformity assessment - General principles and requirements for validation and verification bodies, and further described in [GBCI Verification Protocols](#).

[GBCI.ORG](#)

GREEN BUSINESS CERTIFICATION INC.
2101 L Street NW, Suite 600
Washington, DC 20037



Verification Outcome

Based on the review of the evidence provided by the portfolio owner organization, GBCI hereby verifies the following outcomes² for the metrics noted below for 10001 ABC Corp Retail Portfolio.

Baseline Year Period: NA
Reporting Year Period: (01/01/2023) to (12/31/2023)

Performance Metric	Baseline Year Value	Reporting Year Value	% change	Status	Verification ID
GHG Emissions (absolute)	NA	40000 CO2e	NA	Verified	10000023

This verification is valid as of the date of issuance. Please see Appendix for the properties covered within this verification and the attached Review Report for additional details about the verification.

We appreciate your organization's commitment to achieving your sustainability goals across your real-estate portfolio. Please reach out to us at perform@gbc.org if you have any questions or feedback.

Peter Templeton
CEO, GBCI

[GBCI.ORG](#)

GREEN BUSINESS CERTIFICATION INC.
2101 L Street NW, Suite 600
Washington, DC 20037

VALUE & BENEFITS



Verification supports GRESB participants: receive up to 5.5 points for "externally assured" with energy, GHG, water & waste indicators (MR 1, 2, 3 & 4)

Go above and beyond GRESB, add metrics that align with other reporting standards

For more on 2025 Assessments, see this USGBC article



GRESB 2025 Indicator Crosswalks

GRESB Indicator	PERFORM Performance Metric
MR1 External review of energy data (max. score 1.75)	Total Energy Use and Energy Use Intensity *
MR2 External review of GHG data (max. score 1.25)	Total GHG Emissions and GHG Emissions Intensity *
MR3 External review of water data (max. score 1.25)	Total Water Use and Water Use Intensity *
MR4 External review of waste data (max. score 1.25)	Total Waste Diversion *

GRESB Indicator Asset Level	LEED
BC1.1 Building Certifications at the time of design/construction and for interior (score varies)	LEED BD+C, ID+C, CS Certification
BC1.2 Operational building certifications (score varies)	LEED O+M Certification

*For these four GRESB Indicators a verification letter from GBCI can be used to support GRESB's Data Monitoring & Review section (MR) and offers the maximum points available under 'externally assured'.

Eligibility

- Available to any organization with operational real-estate assets (properties)
- Requirements: Own, manage, or control the real-estate assets. Must have more than one property in the portfolio

Resources

- **The PERFORM Program Guide** details eligibility requirements and the engagement steps: enrolling the portfolio, setting performance goals, tracking progress, and submitting for verification.
- **The PERFORM Performance Metrics** describes the performance categories and metrics available for an organization to track, report, and verify across its portfolio.



Start Today!



- Exclusive and \$0 enrollment introductory verification fees through July 31, 2025!
- Enrollment for nonprofit and public agency will always be free
- A-la-carte review fees based on the portfolio's priorities and performance categories
- Attend monthly on-boarding session, first Thursday of each month

What we're going to cover

LEED v5

Driving the market towards a near-zero carbon reality that is equitable, resilient, and promotes the wise, safe use of all resources

PERFORM

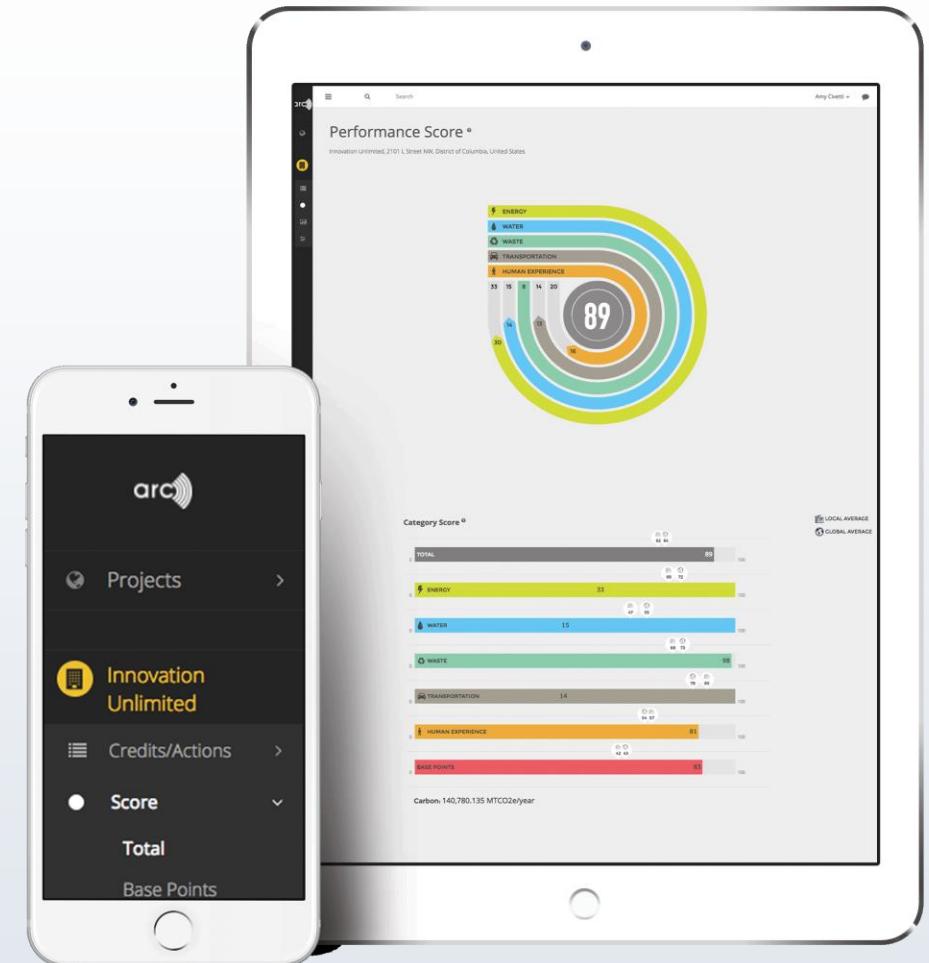
A program to plan, improve, and verify sustainability and resilience performance across portfolios.

Arc

A platform of tools to measure and score operational performance for any space or building.



Arc™ is a building performance monitoring and scoring platform for LEED-certified projects, providing annual LEED recertification and global benchmarking. The plaque displays a LEED performance score, which reflects the measured performance of the building across five categories: energy, water, waste, transportation and human experience. Arc makes the invisible actionable and offers a means for interaction with the building on multiple levels.

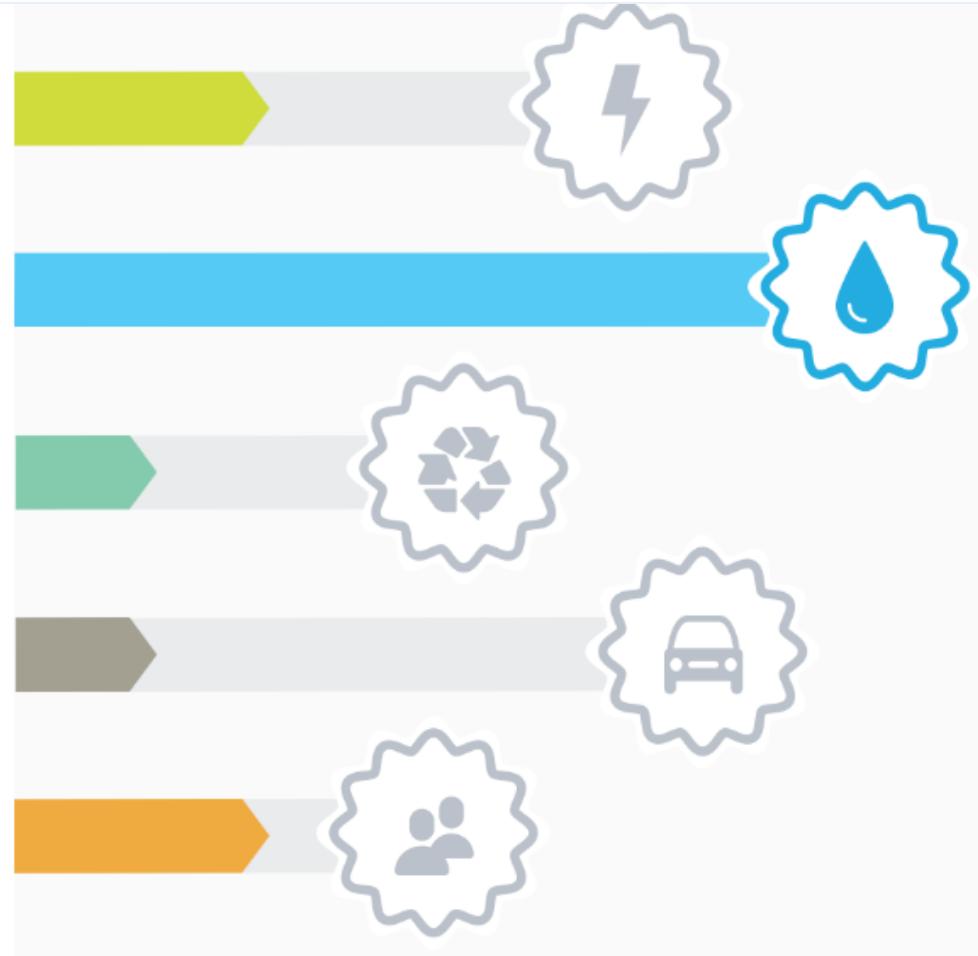


Asset Level Performance

Certificates in any of the five Arc categories

Performance-based, third-party recognition for leadership or improvement in energy, water, waste, transportation, or human experience.

- Choose **one or more** categories
- Certificates are valid for up to 1 year from the date they are issued.
- Three certificates can be used for **“Operational Certificates”** GRESB BC 1.1 Indicator up to 2.5 points
- One Energy certificate can be used for **“Energy Ratings”**
- Flexible pricing: single building, bulk, and portfolio-level pricing



Arc's new workspace for portfolio-level sustainability & resilience.

The screenshot shows the Arc platform homepage with a dark sidebar on the left containing icons for 'PERFORM', 'ADD', 'CREATE', and 'RATE'. The main content area features a welcome message, user profile, and various workspace components.

Welcome to the redesigned Arc platform
Visit the [Help Center](#) for more information.

Hi, Lisa
What do you want to do today?

PERFORM
79 enrolled organizations [Explore](#)

LEED v4.1 O+M
Check out your readiness and register for LEED v4.1 O+M. [Explore](#)

LEED v5 Coming soon
Stay tuned for the launch and get ready to try a new and enhanced certification experience. [Learn more](#)

Add a property
Set up a new property, add data and monitor performance. [Add a property](#)

Create a portfolio
Group properties according to category, owner or locations. [Create a portfolio](#)

Search

Help [Help Center](#) [LS](#)

arc
This website is the evolution of Arc, LEED Online and other GBCI tools. [Switch to legacy Arc](#)

Glossary

- What is a property?**
- What is a project?**
- What is a portfolio?**

Rate your experience

Data Integrations .



Solution Partners



Contact perform@gbc.org if you intend to utilize one of our software partners for documentation.

What are ways you can leverage these tools to meet your goals?

Questions & Discussion



THANK YOU

Ryan Snow, rsnow@usgbc.org

Sade Dennis, sdennis@usgbc.org





Greenbuild
INTERNATIONAL CONFERENCE + EXPO



A large, semi-transparent green circle is centered on the slide, containing the main text and graphics. The background of the slide is a photograph of solar panels under a clear blue sky.

Thank you for attending



See You Again Next Year!

#MCEnergySummit