Certifikace LEED v Praxi
LEED Certification in Practice

Green Building Club
Czech Green Building Council
Česká rada pro šetrné budovy

In partnership with:
CA IMMO
CBRE

23 November 2023 | 1500-1900
Prague, Czechia

LEED® is global with projects in over 180 countries.

TODAY's FLOW

Green Building Club
Czech Green Building Council

23 November 2023
Prague, Czechia

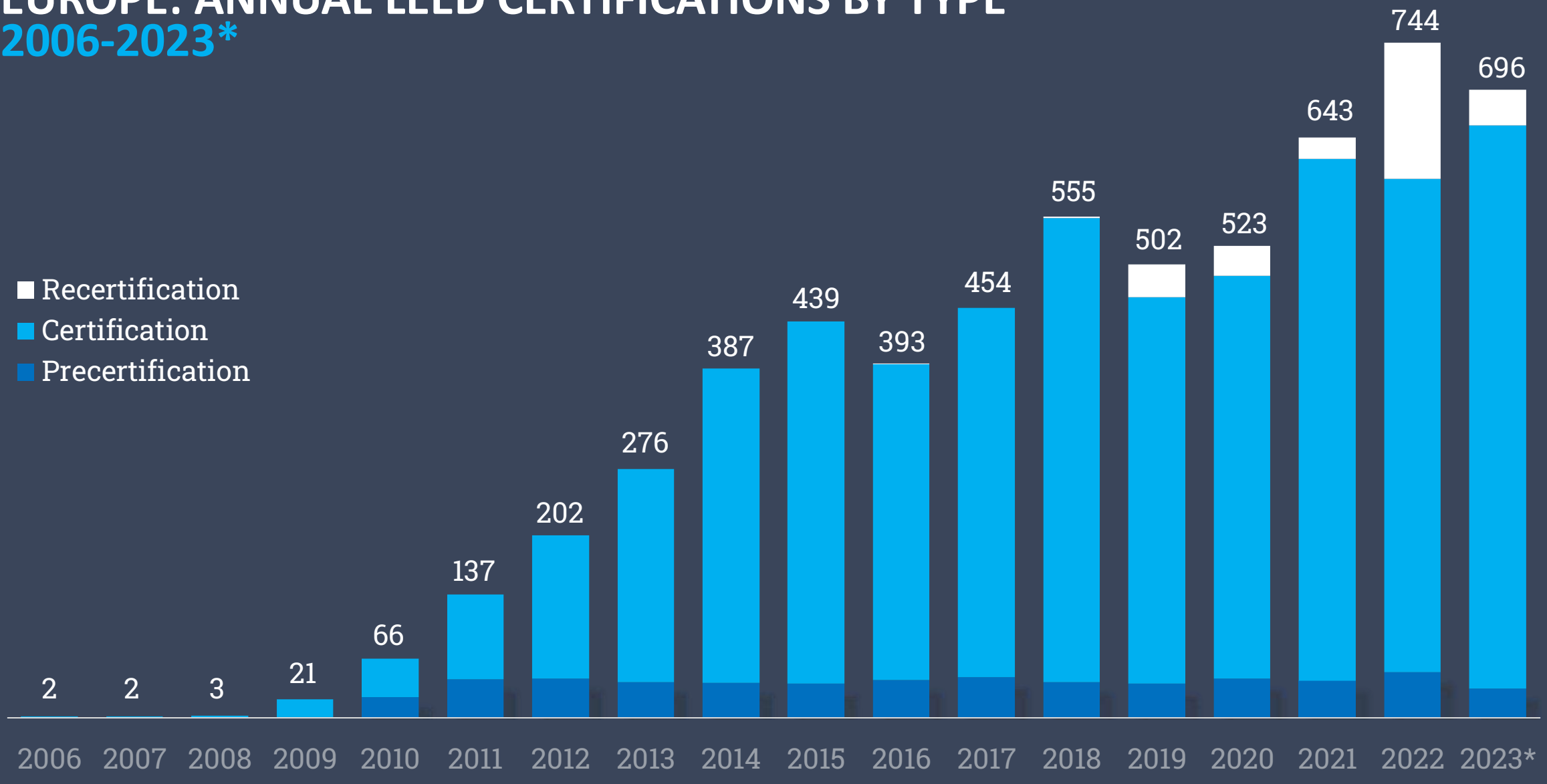
Stats Europe & Czechia
LEED 101
Arc - Performance & Portfolios
Green Buildings & ESG
Sustainable Finance

LEEDv5 – the Future of LEED
*Green Finance Case Study
Q&A

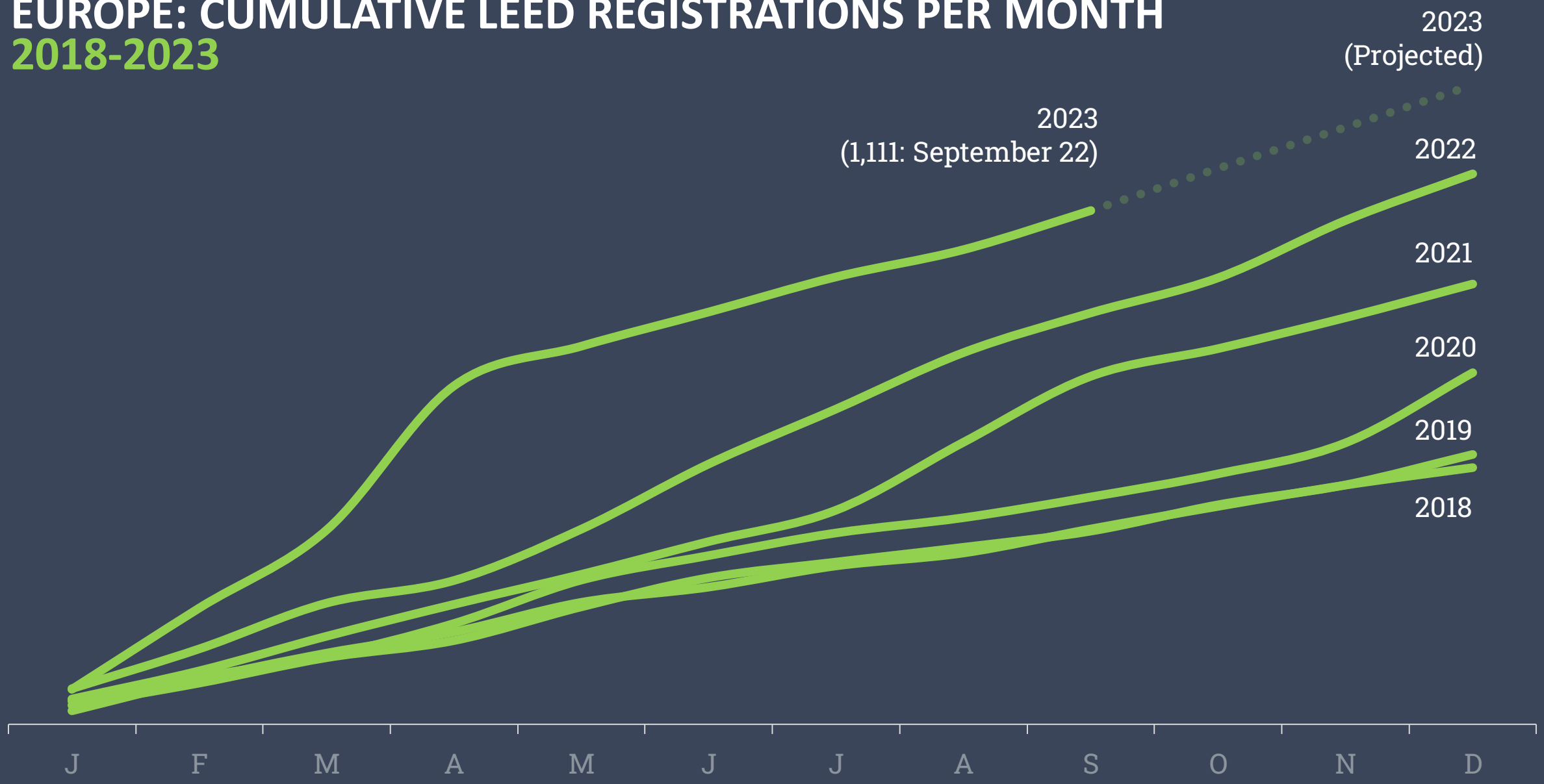
The Path to Here

LEED: 18 years in Europe

EUROPE: ANNUAL LEED CERTIFICATIONS BY TYPE
2006-2023*

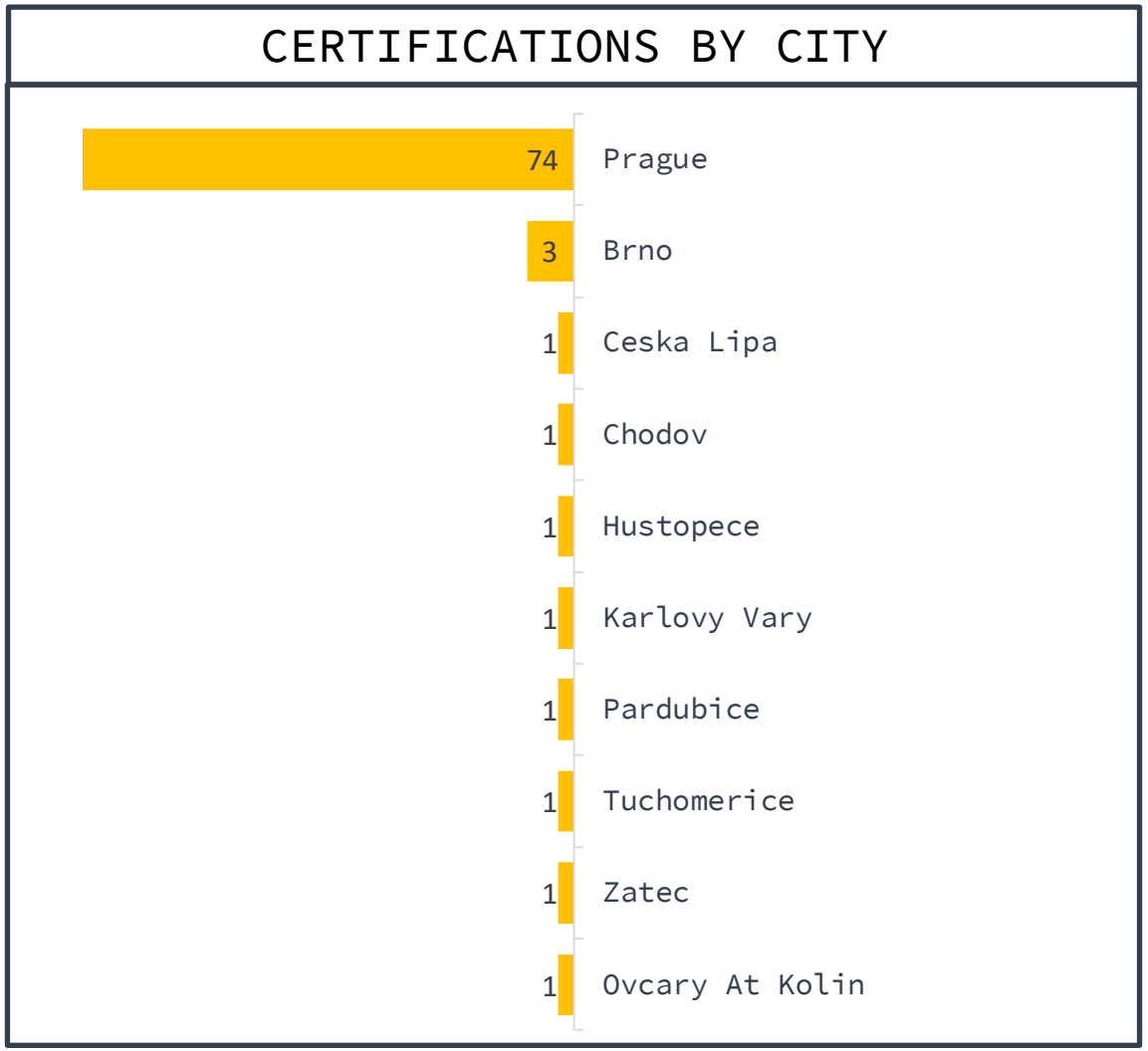


EUROPE: CUMULATIVE LEED REGISTRATIONS PER MONTH
2018-2023



#LEEDinEurope
CZECHIA

CERTIFICATIONS	
90	
EUROPE RANK	WORLD RANK
12	38

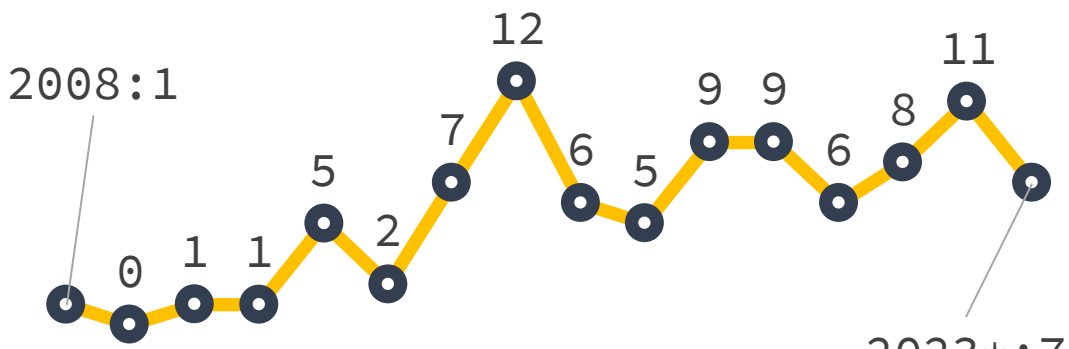


DATA: 13 NOVEMBER 2023 / USGBC
NOTES: INCLUDES CERTIFICATIONS BUT NOT PRECERTIFICATIONS OR RECERTIFICATIONS

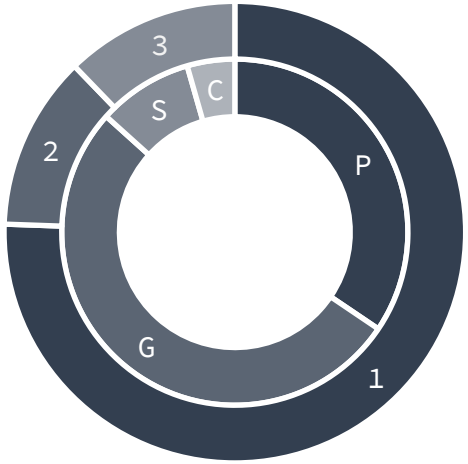
GBCI EUROPE®

#LEEDinEurope
CZECHIA

CERTIFICATIONS PER YEAR



LEVELS	SYSTEMS

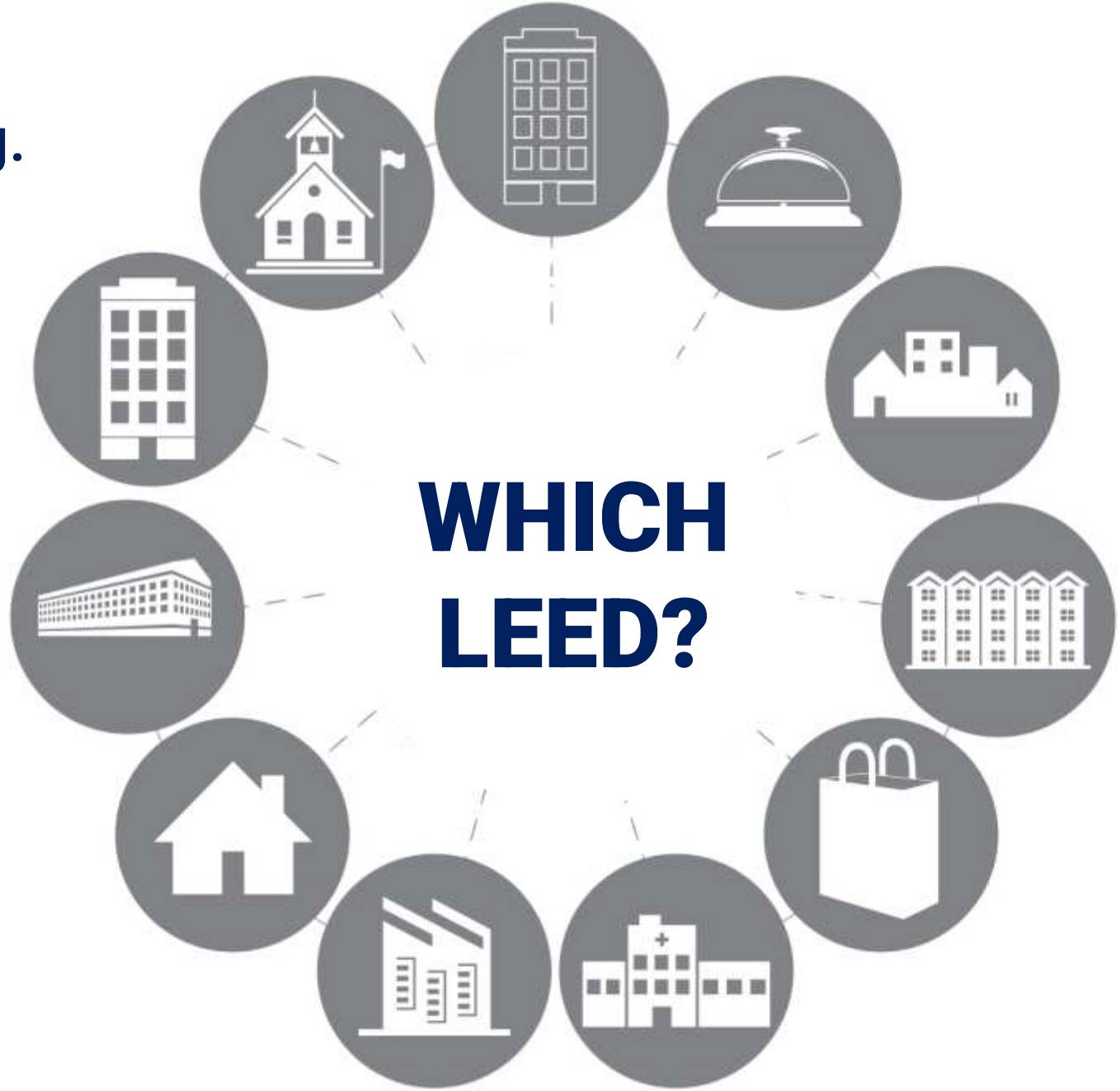


P. Platinum G. Gold S. Silver C. Certified	1. BD+C 2. ID+C 3. O+M

DATA: 13 NOVEMBER 2023 / USGBC
NOTES: INCLUDES CERTIFICATIONS BUT NOT PRECERTIFICATIONS OR RECERTIFICATIONS

GBCI EUROPE®

There is a LEED for every building.



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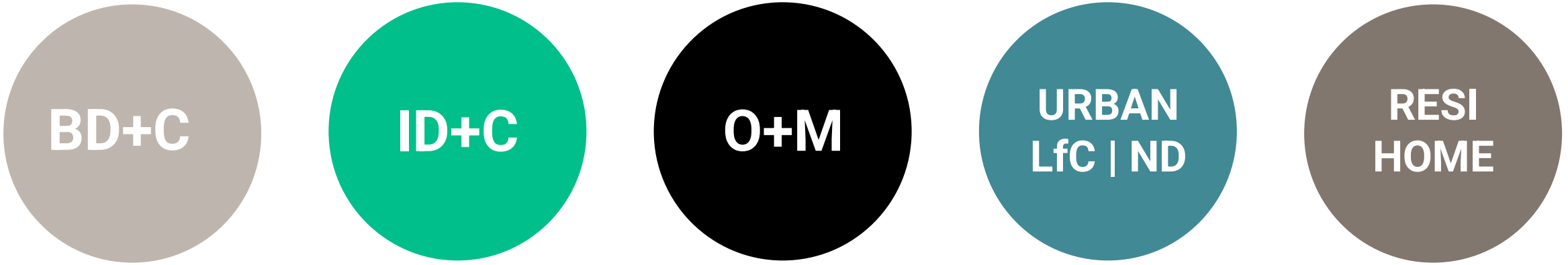
All buildings in.

LEED is flexible enough to apply to all project types.



Building Design & Construction

Interior Design & Construction

Building Operations & Maintenance

Cities & Communities Neighborhood Development

Residential & Homes

LEED addresses all buildings everywhere, regardless of where they are in their lifecycle.

40+
CERTIFIED

50+
SILVER

60+
GOLD

80+
PLATINUM

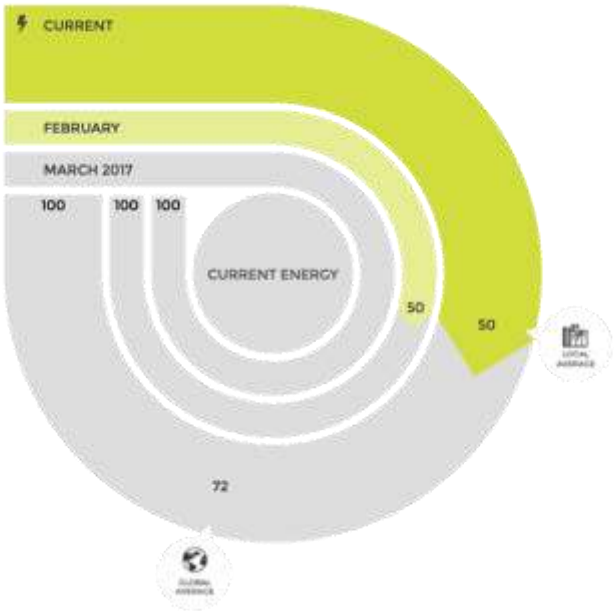
arcskoru.com

Arc

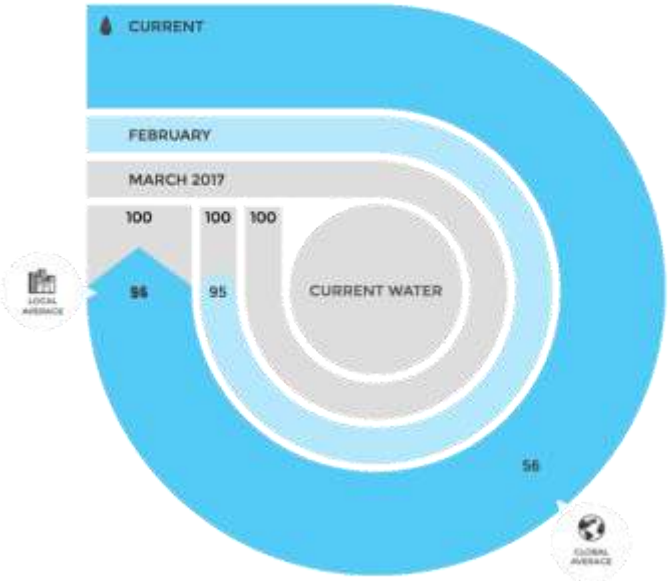
A Platform for Performance-Based Green Building

Portfolio Management | CO_2 Reporting | Cities & Communities

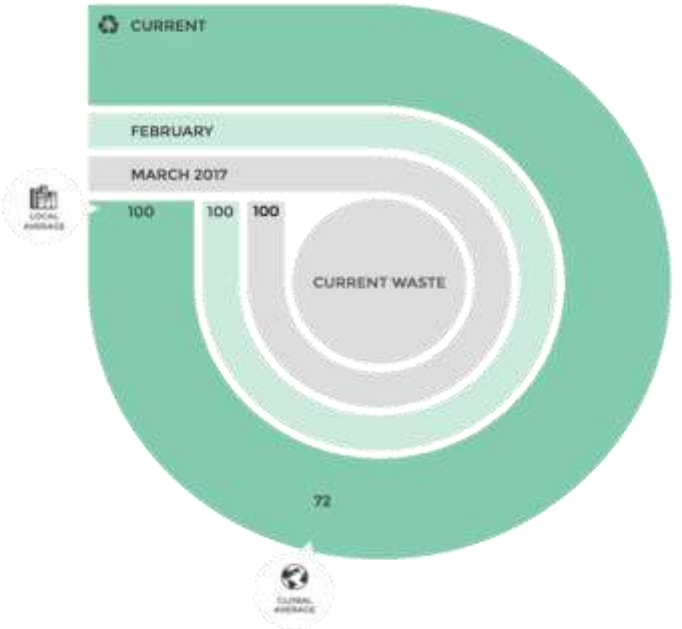
Energy



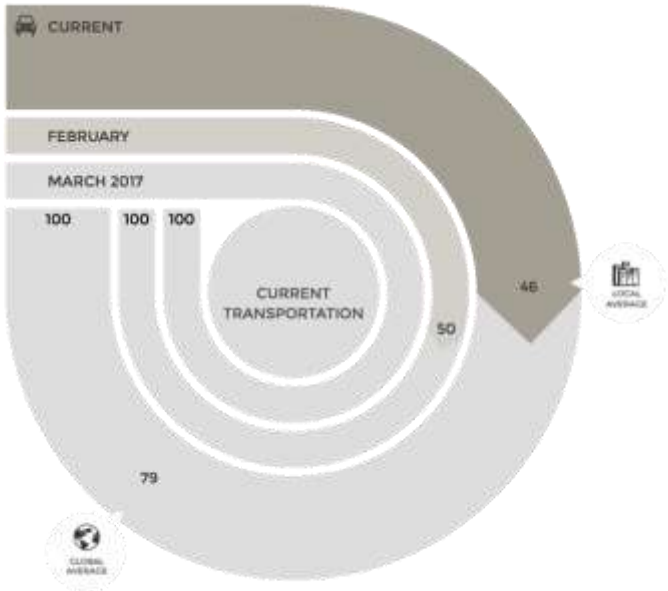
Water



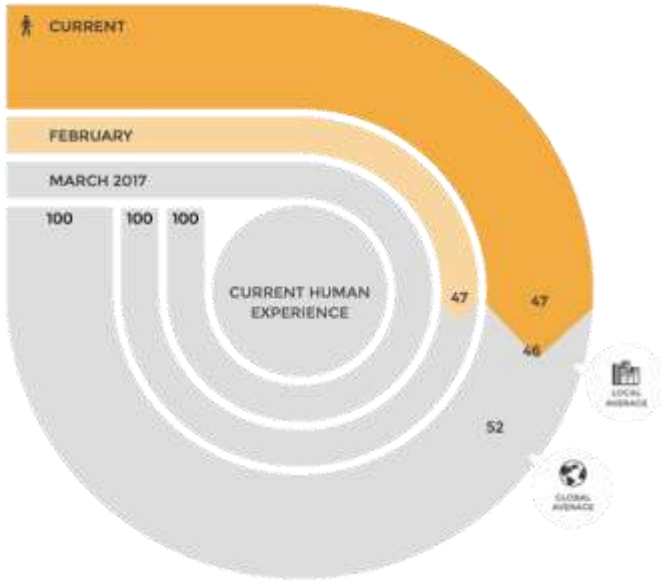
Waste



Transport



Human Experience

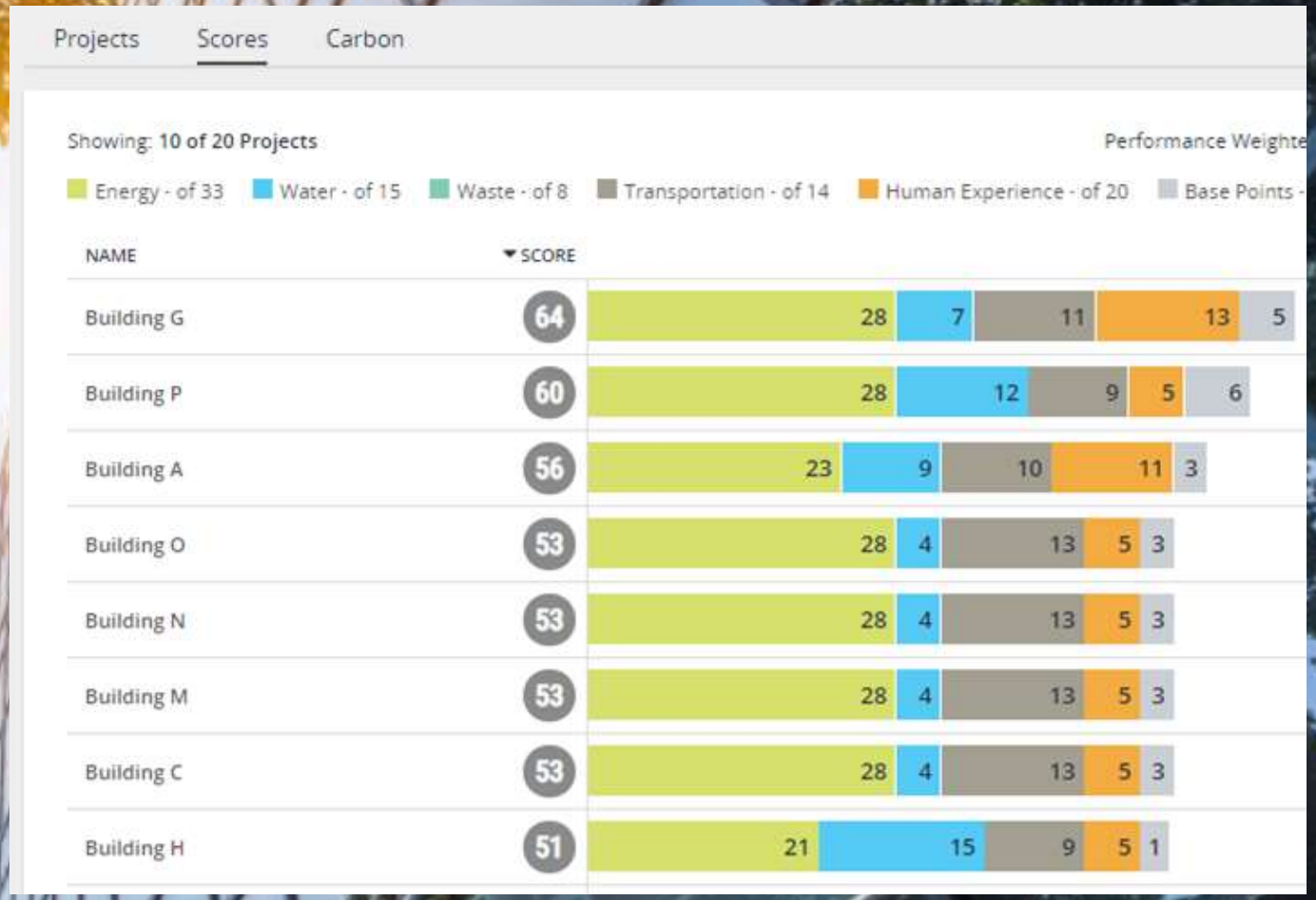


Performance Score 1-100

arc

PORTFOLIO MANAGEMENT

- Asset Level
- Data Management
- Reporting / Tracking
- Stakeholder engagement
- ESG



Innovation Beyond Portfolio

+ Add a Project

Projects Scores Carbon

Annual Emissions	Emissions per occupant	Annual Scope 1	Annual Scope 2	Annual Energy Emissions	Annual Transportation
41,135.5 mtCO2e	2.3 mtCO2e/occupant	4,270.5 mtCO2e	36,865 mtCO2e	41,135.5 mtCO2e	0 mtCO2e

Showing: **10 of 20 Projects**

Sort Filter

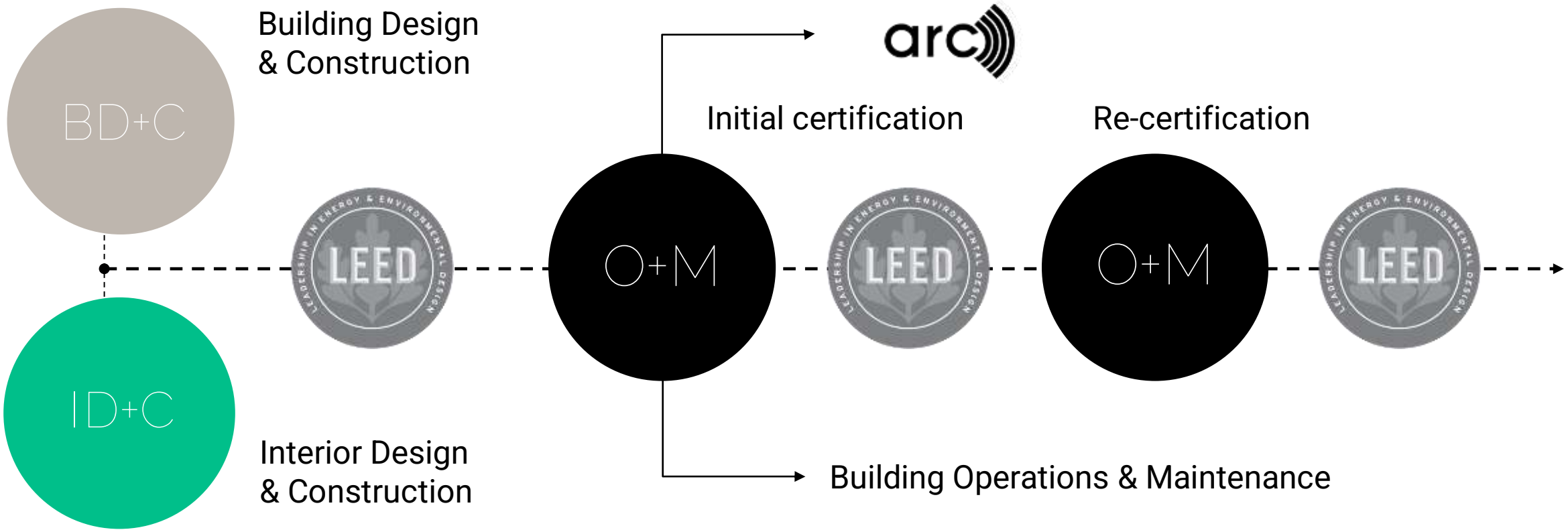
Scope 1 Scope 2 Transportation

NAME	CARBON TOTAL (mtCO2e)		
Building G	11,059.5	2,555	8,504.5
Building Q	5,256	1,095	4,124.5
Building P	4,745	36.5	4,708.5
Building D	2,664.5	474.5	2,190
Building J	2,190		2,190
Building A	1,934.5		1,934.5
Building H	1,934.5		1,934.5

Pathways to LEED certification

Streamlined & data-driven:

- Re-Certification for all LEED systems
- OM certification



year of 1st certification

OM is valid for 3 years

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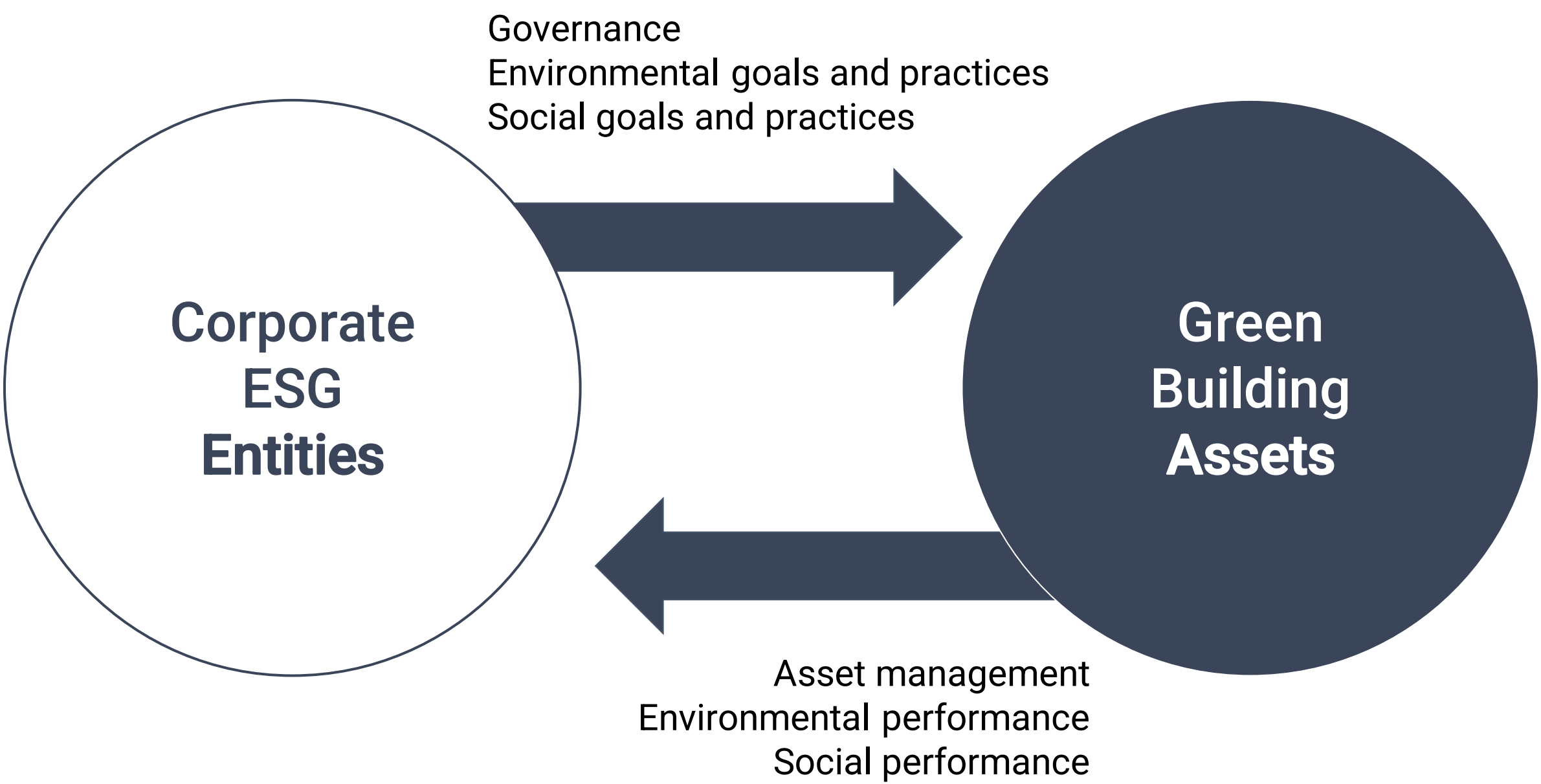
Green Building & ESG

Owning and operating
better companies

Creating and operating
better spaces, buildings,
and places


Governance
Environmental goals and practices
Social goals and practices
Corporate
ESG
Entities
Green
Building
Assets
Asset management
Environmental performance
Social performance

Entity

Executive Management

Tony Malkin

Chairman, President and Chief Executive Officer

Christina Chiu

Executive Vice President and Chief Financial Officer

Thomas Keltner

Executive Vice President and General Counsel

Thomas Durels

Executive Vice President, Real Estate

For the transition period from to

Commission File Number: 001-36105

EMPIRE STATE REALTY TRUST, INC.

(Exact name of Registrant as specified in its charter)

Maryland	**37-1645259**
(State or other jurisdiction of incorporation or organization)	(I.R.S. Employer Identification No.)

111 West 33rd Street, 12th Floor
New York, New York 10120
(Address of principal executive offices) (Zip Code)
(212) 850-2600
(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

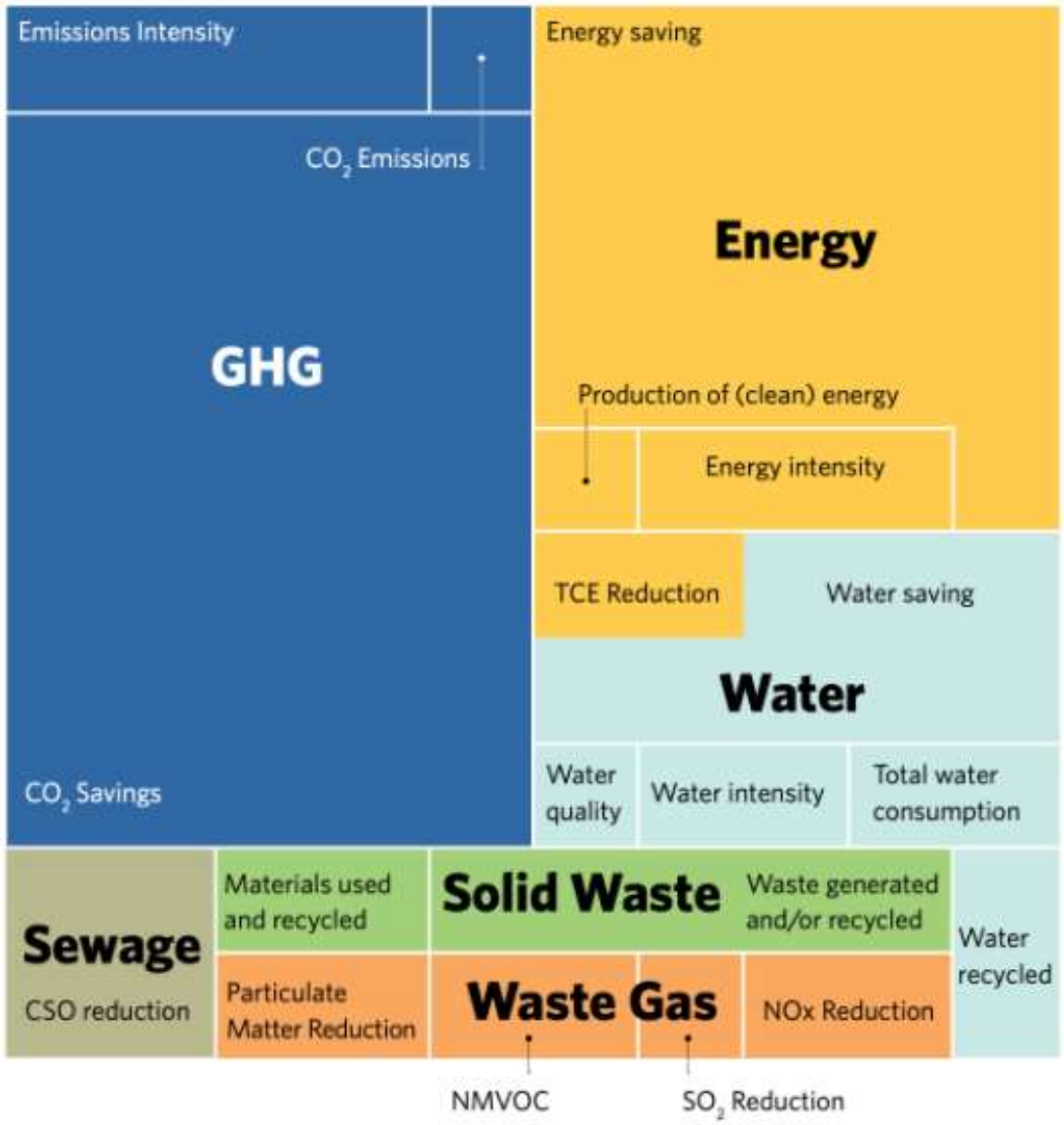
Title of Securities	Trading Symbol	Exchange on Which Traded
Class A Common Stock, par value $0.01 per share	ESRT	The New York Stock Exchange
Class B Common Stock, par value $0.01 per share	N/A	N/A

Securities registered pursuant to Section 12(g) of the Act:
None

Asset

ESG REPORTING

How does LEED® support corporate ESG reporting?



Entity characteristics
Corporate governance
Management
Targets
Materiality
Utility costs
Waste
Diversity
Equity
GRI
SASB
TCFD
Energy supply
GHG emissions
Energy efficiency
Risk management
Entity Practices & Performance
Asset Practices & Performance
Energy efficiency
GHG emissions
Energy supply
Grid interaction
Metering
Water
Landscaping
Waste
Accessibility
IAQ
IEQ
Resilience
Biodiversity
Heat island
Dark Sky
Bird protection

OPPORTUNITY
LEED & CORPORATE ESG REPORTING

LEED
Buildings + Spaces

Energy +
Performance
based Credits

LEED Credit Categories
provide Knowledge Base

arc

Carbon
Footprint
Calculations

ESG
Risk
Assessments

PRI Principles for Responsible Investment

UN GLOBAL COMPACT

Dow Jones
Sustainability Indexes

GRI Empowering Sustainable Decisions

GRESB
REAL ESTATE

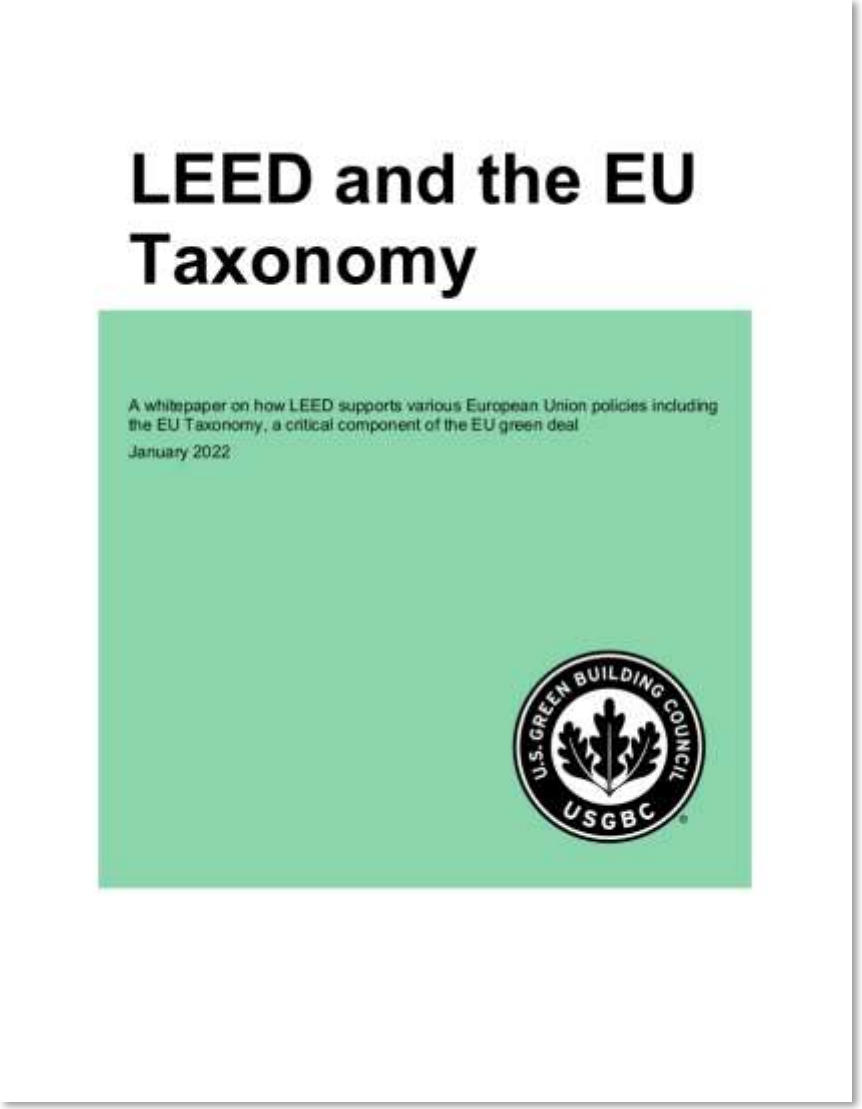
GBCI EUROPE®

LEED EU TAXONOMY
PILOT CREDIT #164

The **“LEED and the EU Taxonomy” whitepaper** was released in January 2022 and discusses how LEED supports various European Union frameworks including the EU Taxonomy.

In April 2023 USGBC released the **LEED EU Taxonomy Pilot Credit #164** to enable projects to demonstrate alignment with EU Taxonomy’s sustainability requirements.

www.gbci.org/europe



The Path Forward

LEED: A tool to build the future of Czechia

Driving Performance at Scale

Photo: Adobe Stock by marchello74

PORTFOLIO ACCELERATOR PILOT

Plan Guidance

Plan Assessment

Performance Verification

LEED V5

LEED V5

will drive the built environment toward a low carbon future that is equitable and resilient and promotes the wise, safe utilization of all resources.

TIMELINE FOR LEED V5

Introduce
LEED v5
+
Release
LEED v5 O+M for
beta use
+
Host committees
meeting

Greenbuild 2023

Sept - Dec

Feedback

Engagement period
Beta
Public comment
Feedback
Ballot

2024

2025

Balloted rating
system
released for
market use

SYSTEM GOALS

LEED V5

SYSTEM GOALS	CLIMATE ACTION	QUALITY OF LIFE	ECOLOGICAL CONSERVATION & RESTORATION
WEIGHTINGS	50% OF POINTS	25% OF POINTS	25% OF POINTS

THE FUTURE OF LEED PRINCIPLES

Decarbonize the building industry swiftly to reflect the urgency of the climate crisis

Inspire and recognize adaptive and resilient built environments

Invest in human health and well-being

Create environments in which diversity, equity, and inclusivity thrive

Support flourishing ecosystems through regenerative development practices

TIMELINE FOR LEED V5

Introduce
LEED v5
+
Release
LEED v5 O+M for
beta use
+
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meeting

Greenbuild 2023

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Public comment
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Ballot

2024

2025

Balloted rating
system
released for
market use

LEED Project Priorities + Evolution of LEED Zero Carbon

USGBC | GBCI

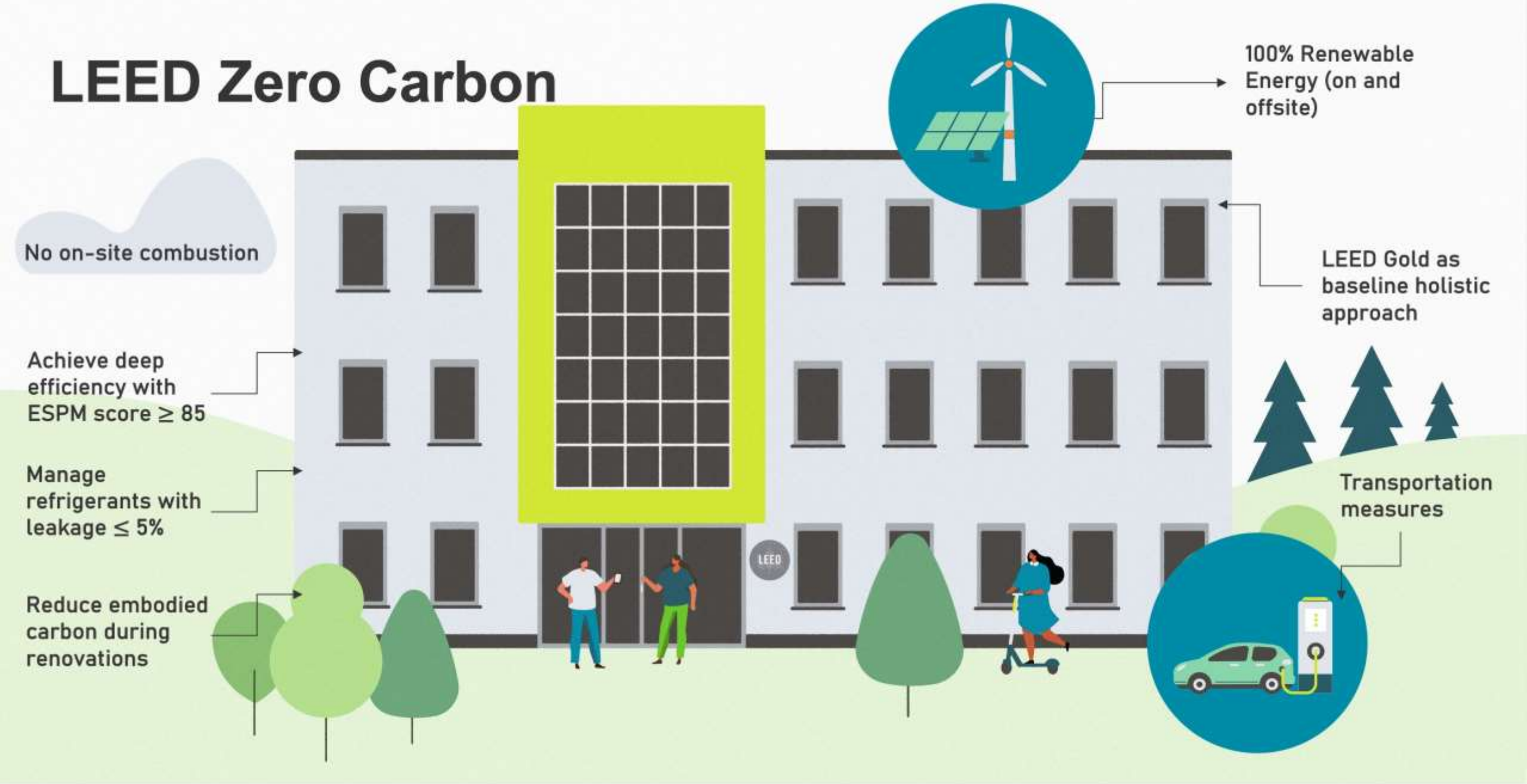
Carbon

Energy

Water

Waste

LEED Zero Carbon



Existing Buildings

Positioning every building on a path to improved performance while simultaneously meeting the needs of a wide and diverse audience and maintaining the pursuit of market transformation and leadership.

How we get there:

- Providing Education and Leadership in a Critical Time
- Establishing Actionable and Transformational Criteria
- Evaluating Measurable Building Performance

LEED v5 for Operations & Maintenance: Existing Buildings (Beta Version)

Scorecard

Integrative Process, Planning & Assessments		2
Prereq	Assessment for Climate Resilience	Required
Prereq	Social Impact Assessment	Required
Prereq	Operational Carbon Projection	Required
Credit	Operational Planning and Response for Resilience	1
Credit	Equity Within Operations and Maintenance Staff	1

Location & Transportation		14
Prereq	Sustainable Transportation Policy	Required
Credit	Sustainable Transportation Performance	14

Sustainable Sites		4
Prereq	Site Management Policy	Required
Credit	Rainwater Management	2
Credit	Heat Island Reduction	1
Credit	Light Pollution Reduction	1

Water Efficiency		15
Prereq	Water Management Policy	Required
Prereq	Water Metering	Required
Credit	Water Performance	15

Energy & Atmosphere		35
Prereq	Energy and Carbon Policy Management	Required
Prereq	Refrigerant Policy and Maintenance Practices	Required
Prereq	Minimum Energy Performance	Required
Credit	Decarbonization and Efficiency Plans	5
Credit	GHG Emissions Reduction	12
Credit	Refrigerant Impact Reduction	2
Credit	Grid Harmonization	2
Credit	Energy Performance and Commissioning	14

Materials & Resources		9
Prereq	Materials Management Policy	Required
Credit	Waste Performance	7
Credit	Embodied Carbon of Interior Materials During Renovations (1 - 2 points)	2

Indoor Environmental Quality		21
Prereq	Occupant Needs Assessment	Required
Prereq	Green Cleaning Policy	Required
Prereq	Verification of Ventilation and Filtration	Required
Prereq	Environmental Tobacco Smoke Control	Required
Credit	Indoor Air Quality Performance	13
Credit	Occupant Satisfaction Survey	5
Credit	Green Cleaning	2
Credit	Integrated Pest Management	1

Project Priorities & Innovation		10
Credit	Project Priorities	9
Credit	LEED Accredited Professional	1

Total	Possible Points:	110

LEED v5 for Operations & Maintenance: Existing Buildings (Beta Version)

Scorecard

Climate Action

Prereq	Operational Carbon Projection	Required
Prereq	Sustainable Transportation Policy	Required
Prereq	Energy and Carbon Policy Management	Required
Prereq	Refrigerant Policy and Maintenance Practices	Required
Prereq	Minimum Energy Performance	Required
Credit	Sustainable Transportation Performance	14
Credit	Heat Island Reduction	1
Credit	Decarbonization and Efficiency Plans	5
Credit	GHG Emissions Reduction	12
Credit	Refrigerant Impact Reduction	2
Credit	Grid Harmonization	2
Credit	Energy Performance and Commissioning	14
Credit	Embodied Carbon of Interior Materials During Ren	2
Total	Possible Points:	52

Quality of Life

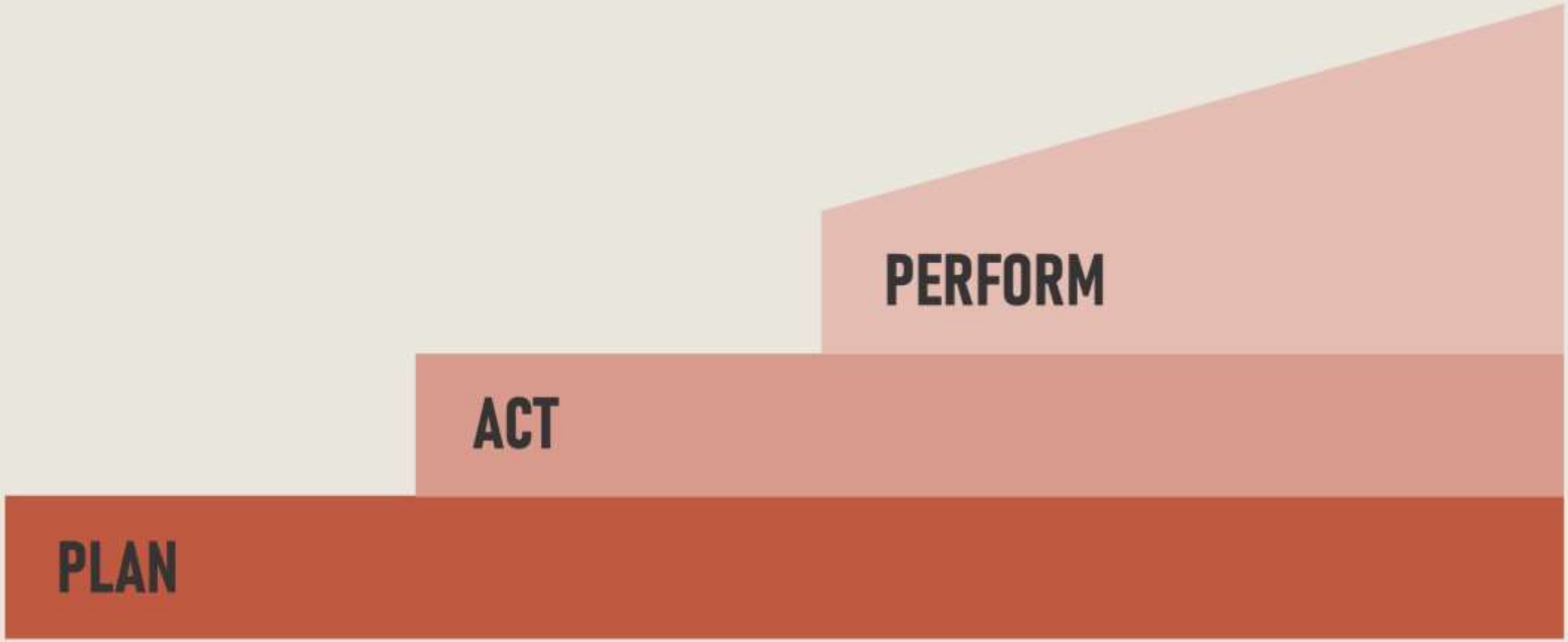
Prereq	Assement for Climate Resilience	Required
Prereq	Social Impact Assessment	Required
Prereq	Operational Carbon Projection	Required
Prereq	Occupant Needs Assessment	Required
Prereq	Green Cleaning Policy	Required
Prereq	Verification of Ventilation and Filtration	Required
Prereq	Environmental Tobacco Smoke Control	Required
Credit	Operational Planning and Response for Resilie	1
Credit	Equity Within Operations and Maintenance Sta	1
Credit	Indoor Air Quality Performance	13
Credit	Occupant Satisfaction Survey	5
Credit	Green Cleaning	2
Credit	Integrated Pest Management	1
Total		23

Ecological Conservation & Restoration

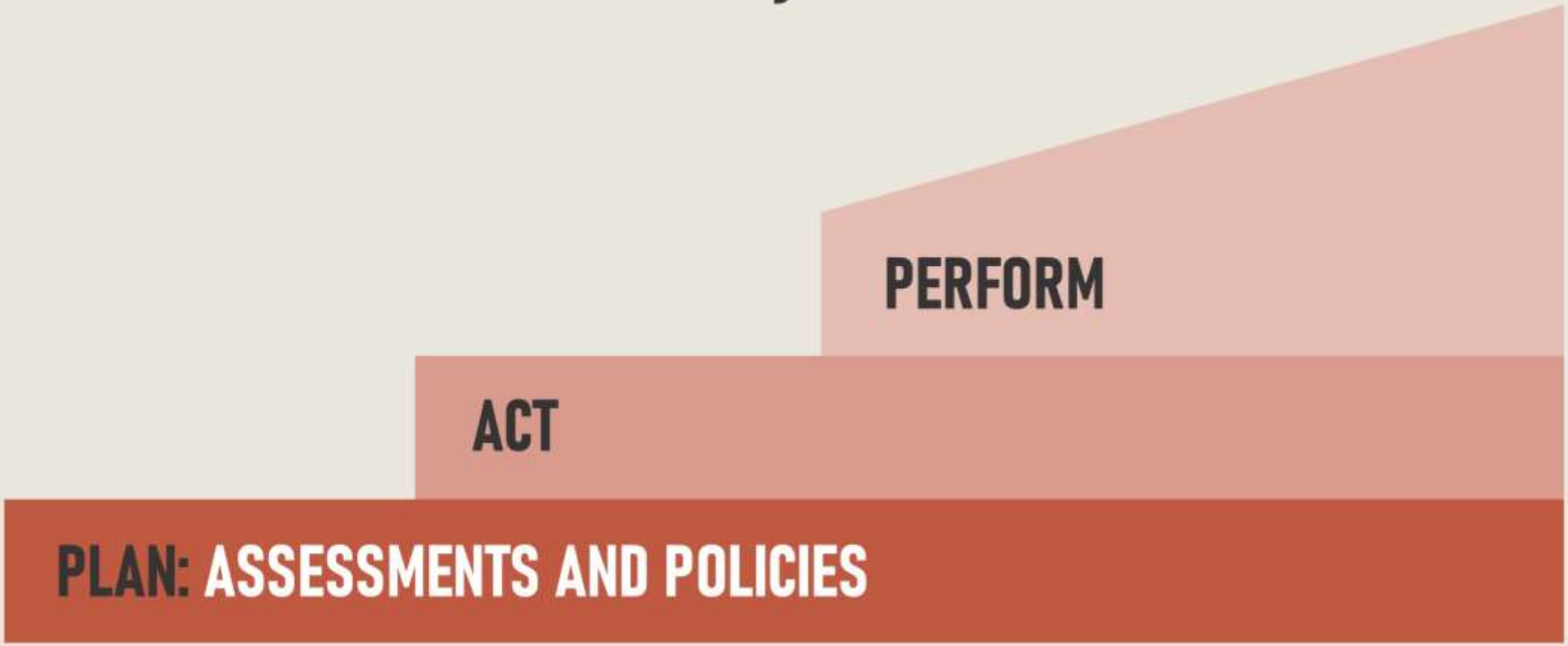
Prereq	Site Management Policy	Required
Prereq	Water Management Policy	Required
Prereq	Water Metering	Required
Prereq	Materials Management Policy	Required
Credit	Rainwater Management	2
Credit	Light Pollution Reduction	1
Credit	Water Performance	15
Credit	Waste Performance	7
Total	Possible Points: 25	

	DECARBONIZATION	RESILIENCE	HEALTH AND WELL-BEING	EQUITY	ECOSYSTEMS
CLIMATE ACTION	Decarbonize swiftly	Total carbon and peak demand reductions slow the rate of climate change	• Indoor air improvements • Air and water quality improvements from total carbon reductions	• Energy burden • Air and water quality improvements from total carbon reductions	• Air and water quality improvements from carbon reductions • Ecosystem impacts of nuclear/hydro power • Other impact categories within an LCA
QUALITY OF LIFE	Prioritize passive vs. mechanical efficiency for passive survivability	Adapt for resilience	Reduce stress and impact of climate change events on people	Reduce and delay the impact of climate change on frontline communities	Value and prioritize ecosystems services that bolster resilience
	Improved indoor air quality from no internal combustion	Design for mental health resilience (comfort, wayfinding, acoustics)	Invest in human health and well-being	Consider health and well-being throughout the supply chain, on construction sites, transportation corridors and downstream	Value and prioritize ecosystem services that bolster human health and well-being
	Account for who causes climate change compared to who experiences it first and worst	Bolster resilience for the most vulnerable (e.g.: underhoused, incarcerated, frontline communities)	Community support and engagement	Create equitable outcomes	Equitable access to nature
ECOLOGY	Circularity/lifecycle analysis and reuse of materials	Reduce flooding and extreme heat/wildfires	Improved air and water quality, affordability	Mitigate urban heat island impacts	Restore ecosystems

LEED v5 O+M
Certification Pathway Elements



LEED v5 O+M
Certification Pathway Elements



LEED V5

O+M: Assessments

- Climate Resilience
- Social Impact
- Occupant Needs

LEED V5

O+M: Policies

- Sustainable Transportation Policy
- Site Management Policy
- Water Management Policy
- Energy and Carbon Policy & Maintenance Practices
- Refrigerant Policy & Best Management Practices
- Materials Management Policy
- Green Cleaning Policy

LEED v5 O+M
Certification Pathway Elements

LEED v5 O+M
Certification Pathway Elements

DECARBONIZATION

Decarbonize the Building Industry Swiftly to Reflect the Urgency of the Climate Crisis

Supporting a holistic transition to a decarbonized built environment by reducing emissions from existing buildings.

HOW WE GET THERE

1. Facilitating and Hastening Market Transformation Towards Operational Decarbonization
2. Addressing All Significant Sources of Carbon Emissions, Not Only Operational
3. Anticipating and Addressing Future Challenges

DECARBONIZATION

Facilitating & Hastening Market Transformation

- Increasing carbon literacy of the industry.
- Rewarding strategic decarbonization planning and action.
- Advancing refrigerant emissions tracking and management.

All Significant Sources of Carbon Emissions in Buildings

- Addressing carbon emissions holistically:
  - Operational Carbon Emissions
  - Embodied Carbon Emissions
  - Transportation Carbon Emissions

Anticipating & Addressing Future Challenges

- Promoting grid reliability & grid harmonization
  - Envelope & Ventilation
  - Energy Storage Technologies
  - Demand Curtailment

HEALTH + WELL-BEING

Invest in Human Health & Well-Being

Promoting safe and healthy spaces that foster physical, mental, and behavioral well-being for all occupants, in current and future climates.

HOW WE GET THERE

1. Sustaining Quality Air During Regular Operation and Under Adverse Conditions
2. Understanding and Accommodating Project Specific Occupant Needs
3. Integrating Health & Well-Being Co-Benefits Alongside Environmental Considerations

HEALTH + WELL-BEING

Sustaining Quality Air Under Varied Conditions

- Encouraging proactive management and monitoring of indoor air quality.
- Assessing and responding to health concerns from adverse conditions.

Understanding & Accommodating Occupant Needs

- Meeting needs related to health, accessibility, and accommodations for vulnerable populations.
- Addressing health risks associated with specific user groups.

Integrating Health & Wellbeing Co-Benefits

- Reducing transportation related air quality impacts.
- Promoting active transportation modes.
- Creating healthy & safe work environments.

ECOSYSTEMS

Support Flourishing Ecosystems Through Regenerative Development Practices.

Identifying opportunities for the built environment to coexist harmoniously with ecological systems and support a vibrant and sustainable life.

HOW WE GET THERE

1. Supporting Beneficial Systems Operation Towards Safeguarding of Ecosystems
2. Integrating Nature-Based Principles into Ongoing Maintenance and Purchasing Practices
3. Protecting and Preserving Local Biodiversity and Ecosystems

ECOSYSTEMS

Beneficial Systems Operation

- Supporting water conservation through efficiency and reuse for the whole project.
  - Building Use
  - Site Use

Ongoing Maintenance & Purchasing Practices

- Encouraging environmentally preferable purchasing.
- Considering environmental impact of materials, chemicals, and ongoing maintenance.
- Introducing concepts related to material circularity.

Protecting and Preserving Biodiversity & Ecosystems

- Promoting targeted strategies to mitigate building impact:
  - Bird-window collision mitigation.
  - Light pollution reduction.
  - Invasive plant species management.

RESILIENCE

Inspire and Recognize Adaptive and Resilient Built Environments.

Creating a more resilient and adaptable built environment that can withstand and recover from natural hazards and can cope with the uncertainties of a changing climate and other disruptions.

HOW WE GET THERE

1. Understanding Climate and the Risks Posed by Shocks and Stressors
2. Rewarding Strategic Preparedness for Resilience Events
3. Rewarding Operational Preparedness for Resilience Events

RESILIENCE

Understanding Climate Risks

- Requiring assessment of climate risks and potential impacts.
- Supporting establishment of health resilience goals.

Rewarding Strategic Readiness

- Rewarding effective emergency response planning.
- Encouraging proactive implementation of readiness measures.

Rewarding Operational Preparedness

- Rewarding technologies and operational protocols that facilitate business continuity.

EQUITY

Create Environments In Which Diversity, Equity, and Inclusion Thrive

Fostering a more equitable and inclusive society where sustainable buildings and communities prioritize the needs of all individuals of different backgrounds, income levels, or abilities.

HOW WE GET THERE

1. Cultivating Education, Awareness, and Action
2. Addressing Systemic Inequalities in the Built Environment
3. Engaging the Community and Prioritizing the Needs of Low-Income & Marginalized Populations

EQUITY

Education, Awareness, and Action

- Requiring assessment of social impact.
- Encouraging prioritization of community well-being, inclusivity, and diversity.
- Understanding needs and addressing disparities.

Supporting and Protecting Workers

- Strengthening support and protections for operations and maintenance personnel.
  - Workforce Development
  - Corporate Social Responsibility
  - Protecting Worker Well-being

Community Engagement

- Encouraging and rewarding inclusive community engagement
- Promoting equity, access, and economic empowerment for underserved and frontline communities.

LEED V5

USGBC | GBCI

Děkuji!

kkillmann@gbci.org
+49 89 4111 5077
www.gbcieuropecircle.com

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#Circle2024
www.gbcieuropecircle.com

Green Finance Leadership Case Study

Prologis

Overview
Environmental Stewardship
Social Responsibility
Governance, Compliance & Ethics
Reports & Resources
Green Bonds

2020 Sustainability Report →

E-MAGAZINE

Prologis

Properties | How We Work | What We Do | Who We Are | Sustainability | News & Research | EN

Sustainability

ESG

Environmental Stewardship

Social Responsibility

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2020 Sustainability Report →

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ESG Highlights

Our ESG approach includes four key areas of focus: We stay **ahead of what's next**; deliver **sustainable logistics** solutions to our customers; **inspire our people**; and build **resilient communities**.

Net Zero Ambition

In 2022, we committed to achieve net zero emissions by 2040 for our entire value chain covering scope 1, 2 and 3 emissions.

Groundbreaking Sustainability

Our Park Moissy II DC1 building near Paris was built with no gas connection and relies on design efficiencies, rooftop solar and borehole geothermal energy storage for heating, cooling and power.

Emissions Reductions

Since 2019, we have been carbon neutral for our scope 1 and 2 emissions, and we have decreased our scope 3 emissions 38% from a 2016 baseline.

Training Future Logistics Workers

In 2021, we more than doubled the number of people trained through our Community Workforce Initiative (CWI), reaching more than 13,000 people. CWI helps build talent for our customers and opens up new employment pathways for individuals in our communities.

Solar Leadership

In the U.S., we are the #3 ranked corporation for installed onsite solar capacity and #1 for business-to-business. Our goal is to build 1 GW of solar energy capacity, supported by battery storage, by 2025.

Inclusion and Employee Engagement

88% of our employees reported being engaged by their work at Prologis, and we continued to expand our inclusion and diversity programs with the creation of five new sponsored employee resource groups.

GREEN BONDS

Green bond investments fund projects focused on social and environmental improvements. Green bonds are a vehicle to further our ESG objectives and create value for our investors, customers and communities.

HOW WE ISSUE GREEN BONDS

Much like a normal bond, green bonds lay out the use of proceeds for their issuance, specifically focusing on eligible green investments within our Green Bond Framework like LEED-certified buildings (or equivalent), solar or wind projects.

GREEN BONDS ISSUED

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PROLOGIS ISSUER	GUARANTOR	SETTLEMENT DATE	MATURITY DATE	NOTIONAL	COUPON
Prologis International Funding II S.A	Prologis European Logistics Fund, FCP-FIS	March 23, 2021	March 23, 2033	€ 500,000,000	0.750%
FIBRA Prologis	FIBRA Prologis	December 8, 2020	November 23, 2032	$125,000,000	4.120%
FIBRA Prologis	FIBRA Prologis	December 8, 2020	November 26, 2030	$125,000,000	4.120%
FIBRA Prologis	FIBRA Prologis	December 8, 2020	November 28, 2028	$125,000,000	4.120%
Prologis, L.P.	Prologis, L.P.	August 20, 2020	October 15, 2030	$750,000,000	1.250%
Prologis Yen Finance LLC	Prologis, L.P.	June 24, 2020	June 22, 2035	¥13,000,000,000	1.222%

Show All Rows

Green Bond Proceeds Allocation

Prologis Euro Finance LLC – **€550,000,000**[1] Green Bond Issued February 6, 2020

CO2e savings per year: **5,331** MT[2] equivalent to taking 1,152 cars off the road[3]

PROPERTY NAME	MARKET	LEED CERTIFICATION LEVEL
215 Beltway DC 1	US-Las Vegas	Silver
Las Vegas Corporate Center 19	US-Las Vegas	Silver
North 15 Freeway DC 1	US-Las Vegas	Silver
North 15 Freeway DC 2	US-Las Vegas	Silver
Meadowlands 0119	US-New Jersey/New York	Gold
Ports Elizabeth Triport	US-New Jersey/New York	Silver
PLD Riverside 2	US-Phoenix	Gold
Silicon Valley Logistics Park 13	US-San Francisco Bay Area	Silver
Sumner 19	US-Seattle	Silver
Tacoma 5	US-Seattle	Silver
Kaiser DC 9	US-Southern California	Silver
Mountain View Industrial Park 1	US-Southern California	Silver
Redlands DC 7	US-Southern California	Silver
Hwy 50 DC 1	CA-Toronto	Silver
Tapscott DC 2	CA-Toronto	Silver
Tapscott DC 3	CA-Toronto	Silver
Total Allocation in USD		**$605,146,432**
Total Allocation in EUR		**€552,342,490**[4]

HOW WILL THE PROCEEDS BE USED?

Green bonds help fulfill investments in green buildings, energy efficiency and renewable energy projects.

Green Buildings

Proceeds from green bonds go to green building certifications (BREEAM, CASBEE, DNGB, HQE or LEED), solidifying our commitment to leading the industry in sustainable building certifications.

LEARN MORE ABOUT SUSTAINABLE DESIGN & DEVELOPMENT →

Renewable Projects

As one of the world's leaders in rooftop solar capacity, we leverage our global portfolio to grow customer-focused renewable energy solutions.

LEARN MORE ABOUT SOLAR SOLUTIONS →

Energy Efficiency

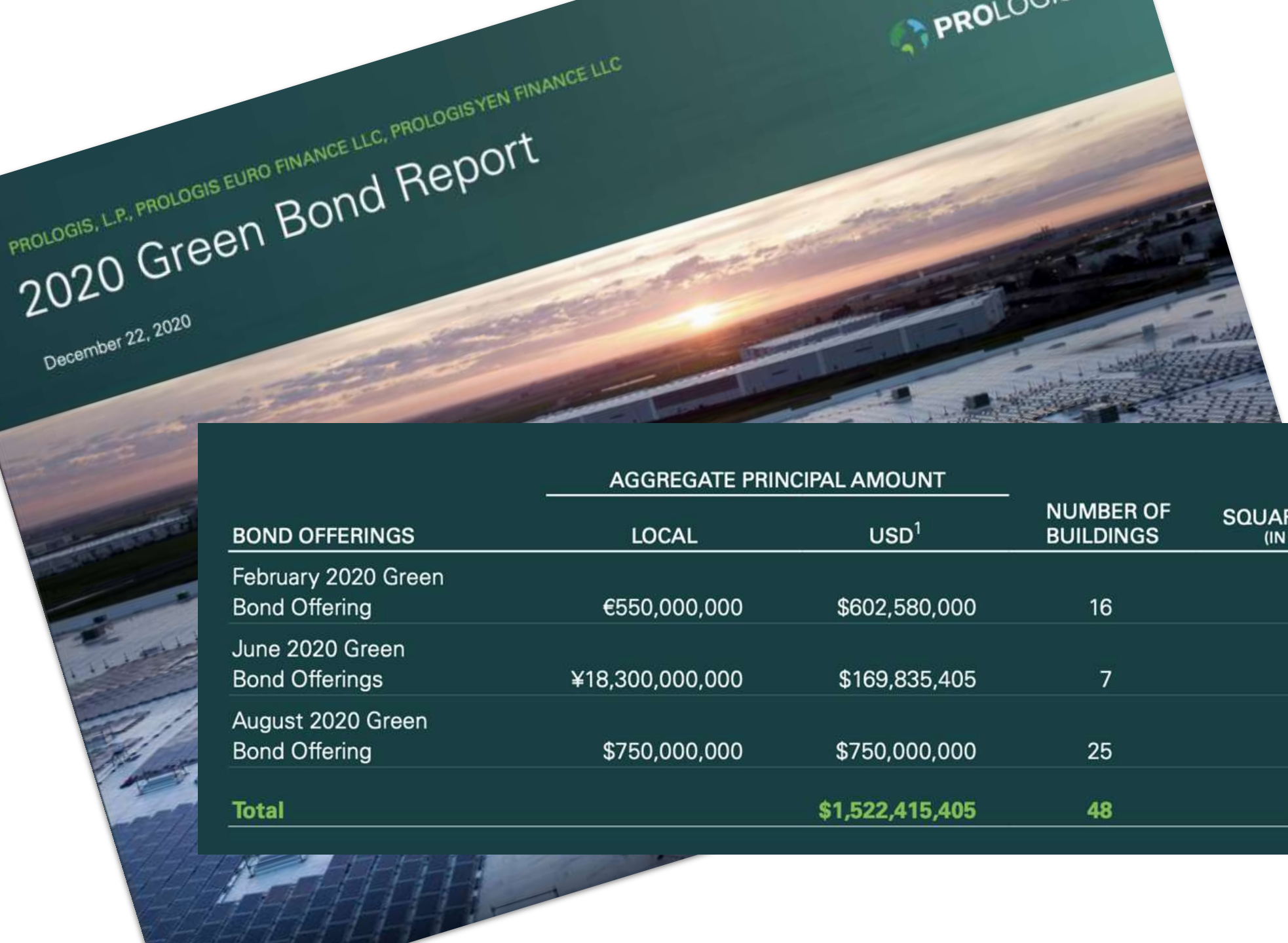
Battery storage systems are a promising clean energy innovation with the potential to deliver substantial benefits to our customers, investors and the environment.

LEARN MORE ABOUT ESG →

PROLOGIS, L.P., PROLOGIS EURO FINANCE LLC, PROLOGIS YEN FINANCE LLC

2020 Green Bond Report

December 22, 2020



BOND OFFERINGS	AGGREGATE PRINCIPAL AMOUNT		NUMBER OF BUILDINGS	SQUARE FOOTAGE (IN MILLIONS)	SQUARE METERS
	LOCAL	USD[1]			
February 2020 Green Bond Offering	€550,000,000	$602,580,000	16	5.7	531,000
June 2020 Green Bond Offerings	¥18,300,000,000	$169,835,405	7	2.4	218,000
August 2020 Green Bond Offering	$750,000,000	$750,000,000	25	9.2	856,000
Total		**$1,522,415,405**	**48**	**17.3**	**1,605,000**

An ESG Strategy with Focused and Measurable Objectives

SUSTAINABLE DEVELOPMENT GOALS		PROGRESS	GOALS
	Certifications	143 MSF	100%[1]
	Cool roofs	46%	100%[2]
	LED lighting	33%	100%
	Solar[3]	212 MW	400 MW by 2025
	Science Based Targets for GHG (greenhouse gas) emission (Scope 1, 2 & 3)[4]	Scope 1 & 2: 4,842 MTCO2e[5] Scope 3: 5,038,778 MTCO2e	Scope 1 & 2: 2,682 MTCO2e to be reduced Scope 3: 133,963 MTCO2e to be reduced

Děkuji!

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