

LEEDv5 + Climate Solutions Now

Critical Dates

April 28, 2025: USGBC Launches LEEDv5 Registrations

Final date to register LEEDv4 projects: TBD

but we've heard Q1 2026

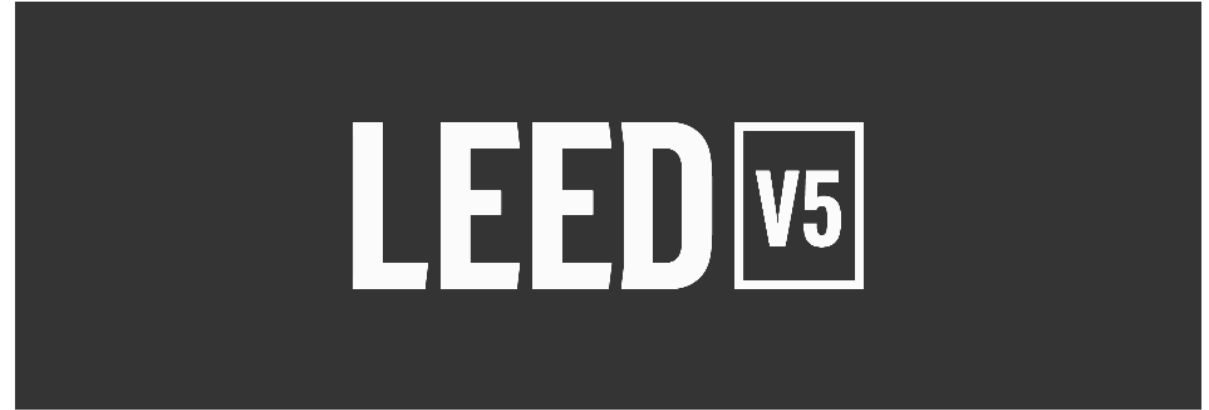
First date LEEDv5 is mandatory: TBD

but the rating system is already available for registrations

Final date to complete LEEDv4 certification: TBD

Media

U.S. Green Building Council Launches New, More Comprehensive LEED Rating System for Sustainable Buildings



Deisy Verdinez

3 minute read



Apr 28, 2025

LEED v5 features new tools to help the world's best buildings achieve even greater impact on human health, resilience and global communities

APRIL 28, 2025 (WASHINGTON, D.C.) – Today, the U.S. Green Building Council ([USGBC](#)) launched LEED v5, the latest version of its flagship [LEED](#) (Leadership in Energy and Environmental Design) green building program. [LEED v5](#) builds on the 25-year legacy and global impact of LEED, updating and strengthening the most widely recognized, influential sustainability standard for the building industry while providing user-friendly tools for building owners and teams to pursue certification through enhanced technology updates.

The Basics

POINTS AVAILABLE	LEED v4	LEED v5	POINTS AVAILABLE
1	Integrative Process	Integrative Process, Planning, and Assessments	1
16	Location and Transportation	Location and Transportation	15
10	Sustainable Sites	Sustainable Sites	11
11	Water Efficiency	Water Efficiency	9
33	Energy and Atmosphere	Energy and Atmosphere	33
13	Materials and Resources	Materials and Resources	18
16	Indoor Environmental Quality	Indoor Environmental Quality	13
6	Innovation in Design	Project Priorities and Innovation	10
4	Regional Priority		
110	TOTAL		110



Achievement Levels and Point Requirements Maintained

	LEED v4	LEED v5
Certified	40 – 49	40 – 49
Silver	50 – 59	50 – 59
Gold	60 – 79	60 – 79
Platinum	80+	80+

New LEED Platinum Requirements for New Construction

EA Credit: Electrification

- 5 points required
- No on-site combustion except for emergency support systems

EA Credit: Enhanced Energy Efficiency

- 8 points required
- ASHRAE90.1-2019 baseline until January 1, 2028; ASHRAE90.1-2022 baseline after January 1, 2028

EA Credit: Renewable Energy

- 100% of site energy use from any combination of Tier 1, Tier 2, and Tier 3 renewable energy
- Functionally this will allow all LEEDv5 Platinum buildings to claim net-zero carbon operations

MR Credit: Reduce Embodied Carbon

- 20% reduction in embodied carbon

LEED v5 Building Design + Construction: New Construction

Y	?	N			
			Integrative Process, Planning & Assessments		
x			Prereq	Climate Resilience Assessment	Required
x			Prereq	Human Impact Assessment	Required
x			Prereq	Carbon Assessment	Required
			Credit	Integrative Design Process	1

			Location + Transportation		
			Credit	Compact and Connected Development	6
			Credit	Electric Vehicles	2
			Credit	Equitable Development	2
			Credit	Sensitive Land Protection	1
			Credit	Transportation Demand Management	4

			Sustainable Sites		
x			Prereq	Minimize Site Disturbance	Required
			Credit	Accessible Outdoor Space	1
			Credit	Biodiverse Habitat	2
			Credit	Enhanced Resilient Site Design	2
			Credit	Rainwater Management	3
			Credit	Heat Island Reduction	2
			Credit	Light Pollution Reduction	1

			Water Efficiency		
x			Prereq	Minimum Water Efficiency	Required
x			Prereq	Water Metering and Reporting	Required
			Credit	Enhanced Water Efficiency	8
			Credit	Water Metering and Leak Detection	1

 New Credits

 Platinum Mandatory Credits

			Energy + Atmosphere		
x			Prereq	Energy Metering and Reporting	Required
x			Prereq	Fundamental Commissioning	Required
x			Prereq	Fundamental Refrigerant Management	Required
x			Prereq	Minimum Energy Efficiency	Required
x			Prereq	Operational Carbon Projection and Decarbonization Plan	Required
			Credit	Electrification	5
			Credit	Enhanced Commissioning	4
			Credit	Enhanced Energy Efficiency	10
			Credit	Enhanced Refrigerant Management	2
			Credit	Grid-Interactive	2
			Credit	Reduce Peak Thermal Loads	5
			Credit	Renewable Energy	5

			Materials + Resources		
x			Prereq	Access and Quantify Embodied Carbon	Required
x			Prereq	Planning for Zero Waste Operations	Required
			Credit	Building Product Disclosure and Optimization	5
			Credit	Building and Materials Reuse	3
			Credit	Construction and Demolition Waste Diversion	2
			Credit	Low-Emitting Materials	2
			Credit	Reduce Embodied Carbon	6

			Indoor Environmental Quality		
x			Prereq	Construction Management Plan	Required
x			Prereq	Fundamental Air Quality	Required
x			Prereq	No Smoking or Vehicle Idling	Required
			Credit	Accessibility and Inclusion	1
			Credit	Air Quality Testing and Monitoring	2
			Credit	Enhanced Air Quality	1
			Credit	Occupant Experience	7
			Credit	Resilient Spaces	2

			Project Priorities + Innovation		
			Credit	LEED Accredited Professional	1
			Credit	Project Priorities	9

			TOTALS		
			Possible Points:		

110

Certified: 40 - 49 points, Silver: 50 - 59 points, Gold: 60 - 79 points, Platinum: 80+ points

Integrative Process, Planning, and Assessments

3 Prerequisites, 1 Credit
Potential Points: 1

Integrative Process, Planning, and Assessments

LEEDv4		LEEDv5	
POINTS	Integrative Process	Integrative Process, Planning, and Assessments	POINTS
1	Integrative Process	Climate Resilience Assessment	Required
		Human Impact Assessment	Required
		Carbon Assessment	Required
		Integrative Design Process	1

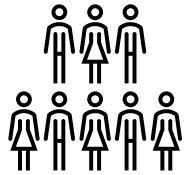
Climate Resilience Assessment

Complete assessment for 2 priority hazards.

Description		Calendar year at end of Design Service Life	Total years of Design Service Life	IPCC Shared Socioeconomic Pathway (NA, SSP1-1.9, SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5)	Current Hazard Level (NA, low, medium, high)	Service Life Hazard Level (NA, low, medium, high)	Risk Rating from Local Hazard Mitigation / Disaster Risk Management / Climate Adaptation Plan, or equivalent source (NA, low, medium, high)	Exposure (NA, low, medium, high)	Sensitivity (NA, low, medium, high)	Adaptive Capacity (NA, low, medium, high)	Potential Impact on Function (NA, low, medium, high)	Vulnerability	Priority Hazard Risk (NA, yes, no)
Hazard	Drought												
	Earthquake												
	Extreme Cold												
	Extreme Heat												
	Flooding												
	Hail												
	Hurricanes												
	High-Wind Areas												
	Landslides and Unstable Soils												
	Sea Level Rise and Storm Surge												
	Tornado Areas												
	Tsunami												
	Wildfire												
	Wildfire Smoke												
	Winter Storms												
	Other												
	Other												
Notes/Other Relevant Information Use this space for any findings or considerations not covered by the individual indicators above.													

Human Impact Assessment

Assess the following:



Demographics

Race and ethnicity, gender, age, income, employment rate, population density, education levels, household types, identification of nearby vulnerable populations.



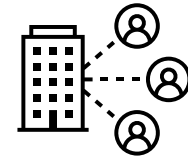
Local Infrastructure and Land Use

Adjacent transportation and pedestrian infrastructure, adjacent diverse uses, relevant local or regional sustainability goals/commitments.



Human Use and Health Impacts

Housing affordability and availability, availability of social services, community safety, local community groups, supply chain and construction workforce protections.



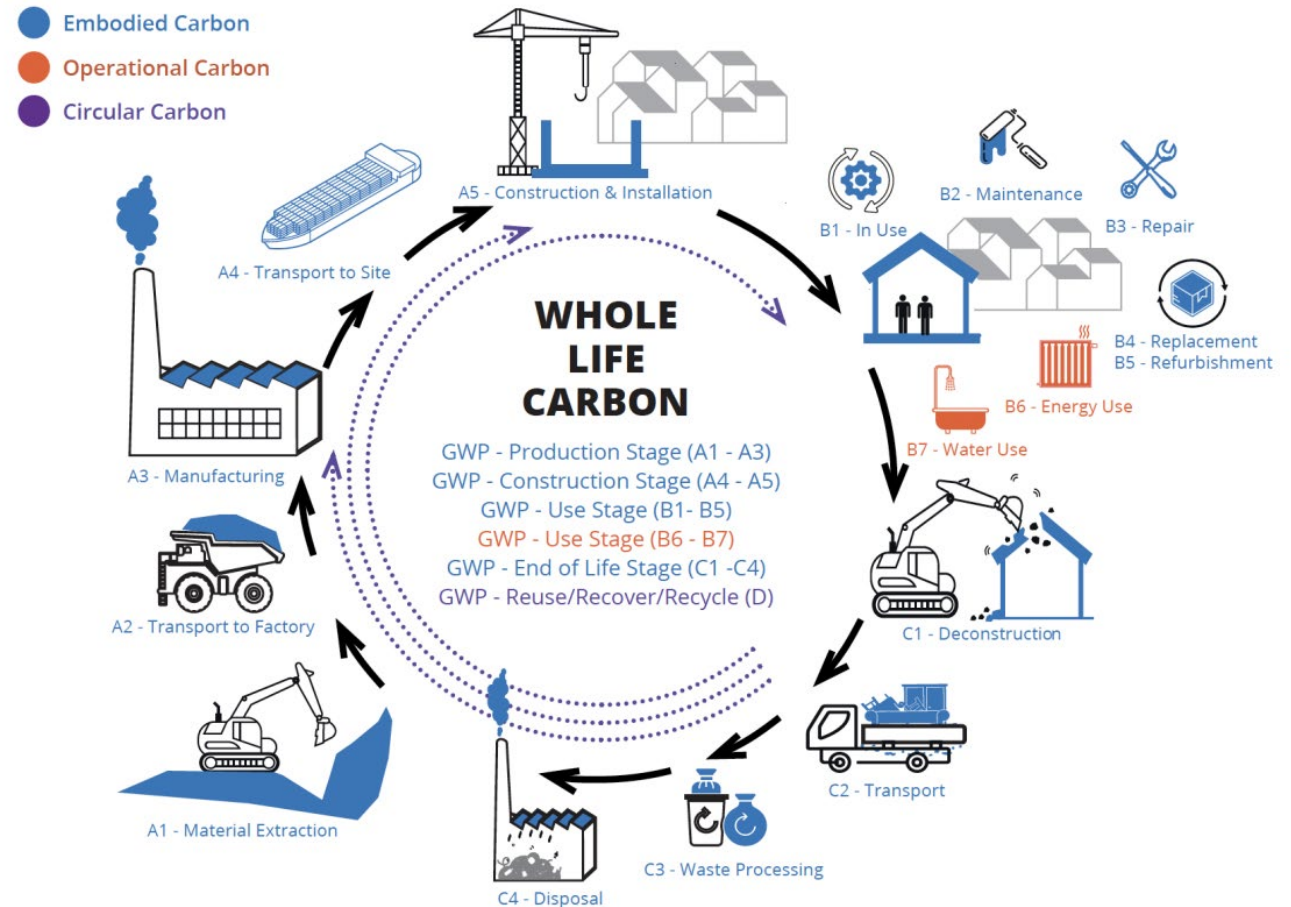
Occupant Experience

Daylight, views, operable windows, environmental conditions or air and water, adjacent soundscapes, lighting, and wind patterns.

Carbon Assessment

USGBC will provide the team with a 25-year projected carbon emissions assessment using data from:

- EAp1 Prerequisite: Operational Carbon Projection and Decarbonization Plan
- EAp5 Prerequisite: Fundamental Refrigerant Management
- MRp2 Prerequisite: Assess Embodied Carbon
- LTc4: Transportation Demand Management



Location and Transportation

5 Credits

Potential Points: 15

Location and Transportation

LEEDv4		LEEDv5	
POINTS	Location and Transportation	Location and Transportation	POINTS
16	LEED for Neighborhood Development	Compact and Connected Development	6
1	Sensitive Land Protection	Electric Vehicles	2
2	High Priority Site and Equitable Development	Equitable Development	2
5	Surrounding Density and Diverse Uses	Sensitive Land Protection	1
5	Access to Quality Transit	Transportation Demand Management	4
1	Bicycle Facilities		
1	Reduced Parking Footprint		
1	Electric Vehicles		

Compact and Connected Development

2 separate LEEDv4 credits
worth up to 10 points

Surrounding Density and
Diverse Uses

Access to Quality Transit

Combined into one



Option 1. Surrounding Density (1 – 2 points)



Option 2. Access to Transit (1 – 4 points)

- Path 1. Public Transit Service (1 – 4 points)
- Path 2. Project-Sponsored Transit Service (1 – 2 points)



Option 3. Walkable Location (1 – 3 points)

Options 4 – 7 also exist in this credit, but are less likely to be pursued in Maryland community college projects.

Bias for dense, urban environments continues to exist in LEEDv5, but less so than in LEEDv4.

Equitable Development

Option 1. Priority Sites (1 – 2 points)

- Path 1. Brownfield Remediation (2 points)
- Path 2. Historic Location (1 point)

Option 2. Housing and Jobs Proximity (1 – 2 points)

- Path 1. Support Local Economy (1 point)
- Path 2. Location Efficient Affordable Housing (2 points)

Option 3. Equitable Construction (2 points)



Transportation Demand Management

Transportation Demand Assessment

- Assessment of vehicle miles traveled (VMT) and carbon emissions associated

AND

2 separate LEEDv4 credits
worth up to 2 points

Reduced Parking Footprint

Bicycle Facilities

Combined into one



Option 1. Parking (1 – 3 points)

- Path 1. Reduce Parking (1 – 3 points)
- Path 2. Parking Fee (2 points)



Option 2. Active Travel Facilities (1 – 3 points)

- Path 1. Bicycle Network and Storage (1 point)
- Path 2. Shower and Changing Facilities (1 point)
- Path 3. Bicycle Maintenance (1 point)

Sustainable Sites

1 Prerequisite, 6 Credits
Potential Points: 11

Sustainable Sites

LEEDv4		LEEDv5	
POINTS	Sustainable Sites	Sustainable Sites	POINTS
Required	Construction Activity Pollution Prevention	Minimize Site Disturbance	Required
1	Site Assessment	Accessible Outdoor Space	1
2	Site Development – Protect or Restore Habitat	Biodiverse Habitat	2
1	Open Space	Enhanced Resilient Site Design	2
3	Rainwater Management	Rainwater Management	3
2	Heat Island Reduction	Heat Island Reduction	2
1	Light Pollution Reduction	Light Pollution Reduction	1

Biodiverse Habitat

Option 1. Preserve and Restore Habitat (1 – 2 points)

- Path 1: Greenfield Sites (1 point)
- Path 2: Previously Disturbed Sites (1 – 2 points)

AND/OR

Option 2. Bird-Friendly Glass (1 points)



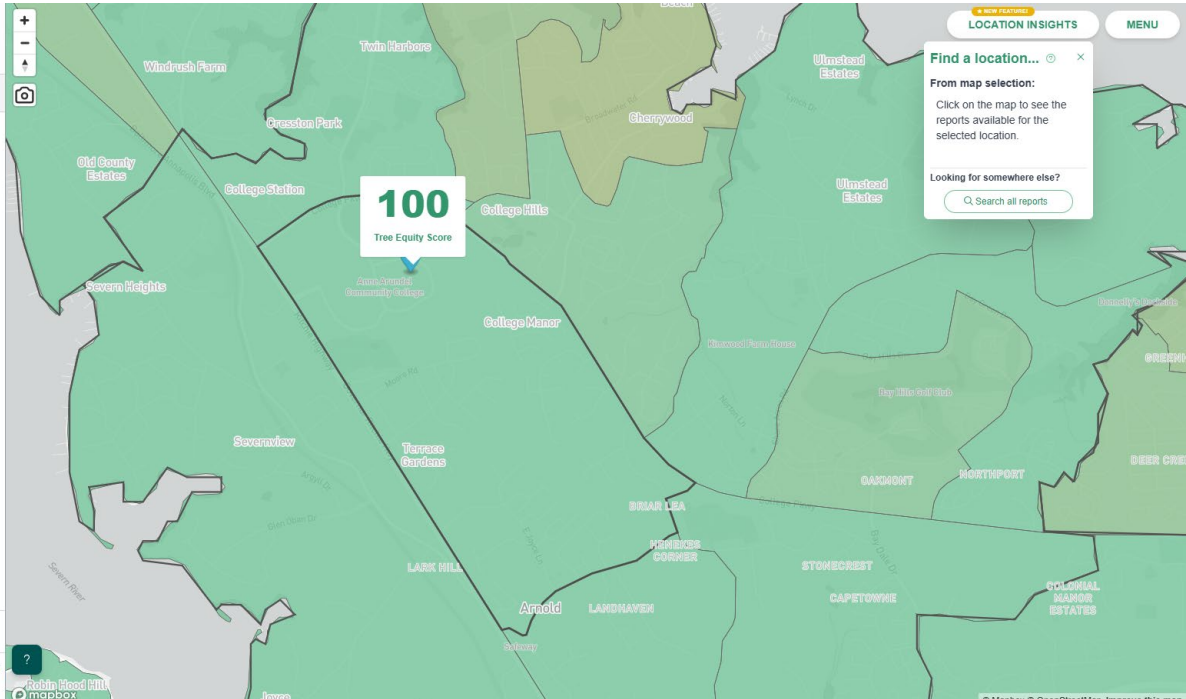
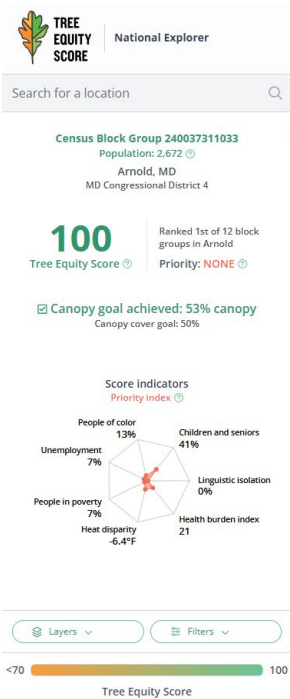
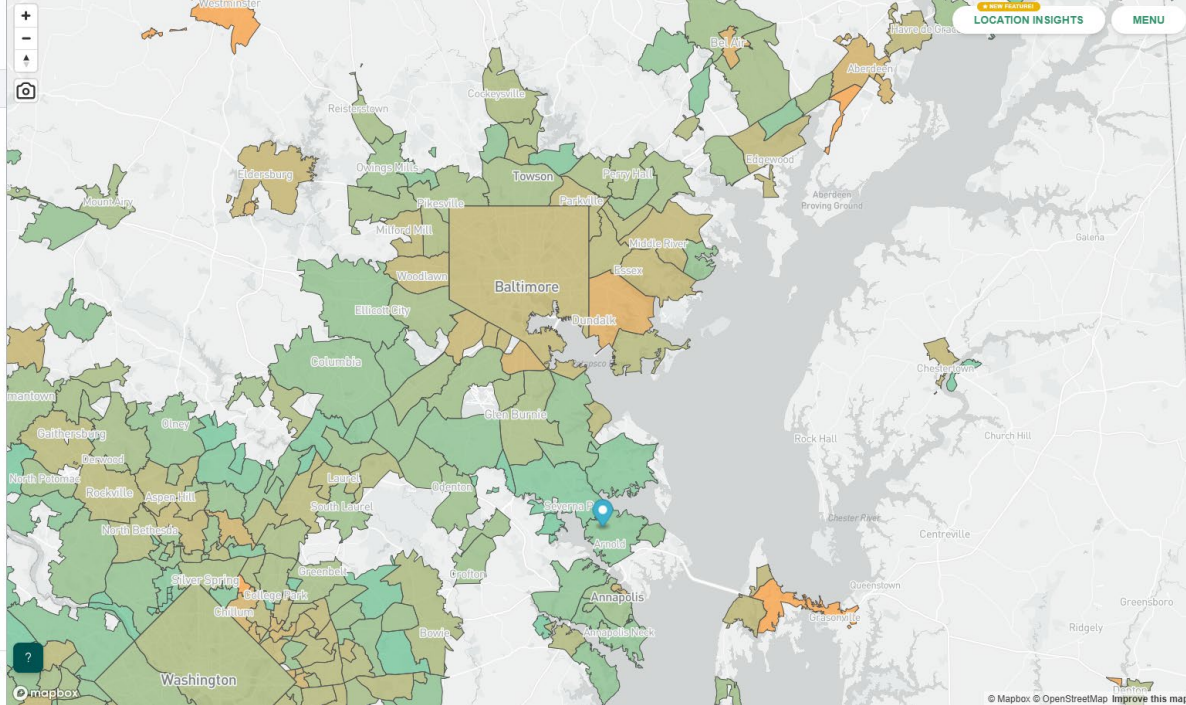
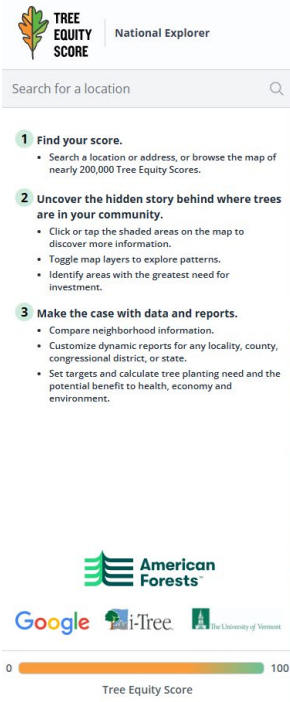
Heat Island Reduction

Option 1. Nonroof and Roof (1 – 2 points)

Option 2. Parking Under Cover (1 point)

Option 3. Tree Equity (1 point)

- Evaluate the American Forests Tree Equity score for the site location



Water Efficiency

2 Prerequisites, 4 Credits
Potential Points: 9

Water Efficiency

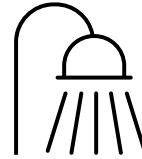
LEEDv4		LEEDv5	
POINTS	Water Efficiency	Water Efficiency	POINTS
Required	Outdoor Water Use Reduction	Minimum Water Efficiency	Required
Required	Indoor Water Use Reduction	Water Metering and Reporting	Required
Required	Building-Level Water Metering	Enhanced Water Efficiency	8
2	Outdoor Water Use Reduction	Water Metering and Leak Detection	1
6	Indoor Water Use Reduction		
2	Cooling Tower Water Use		
1	Water Metering		

Minimum Water Efficiency

2 separate LEEDv4
prerequisites

Outdoor Water Use Reduction
Indoor Water Use Reduction

Combined into one



Option 1. Prescriptive Path – Maximum Flush and Flow Rates

Option 2. Performance Path – Calculated Reduction



AND

Minimum Equipment Water Efficiency

AND



Minimum Outdoor Water Use Efficiency

- Option 1. No irrigation
- Option 2. Efficient irrigation (min. 30% reduction)

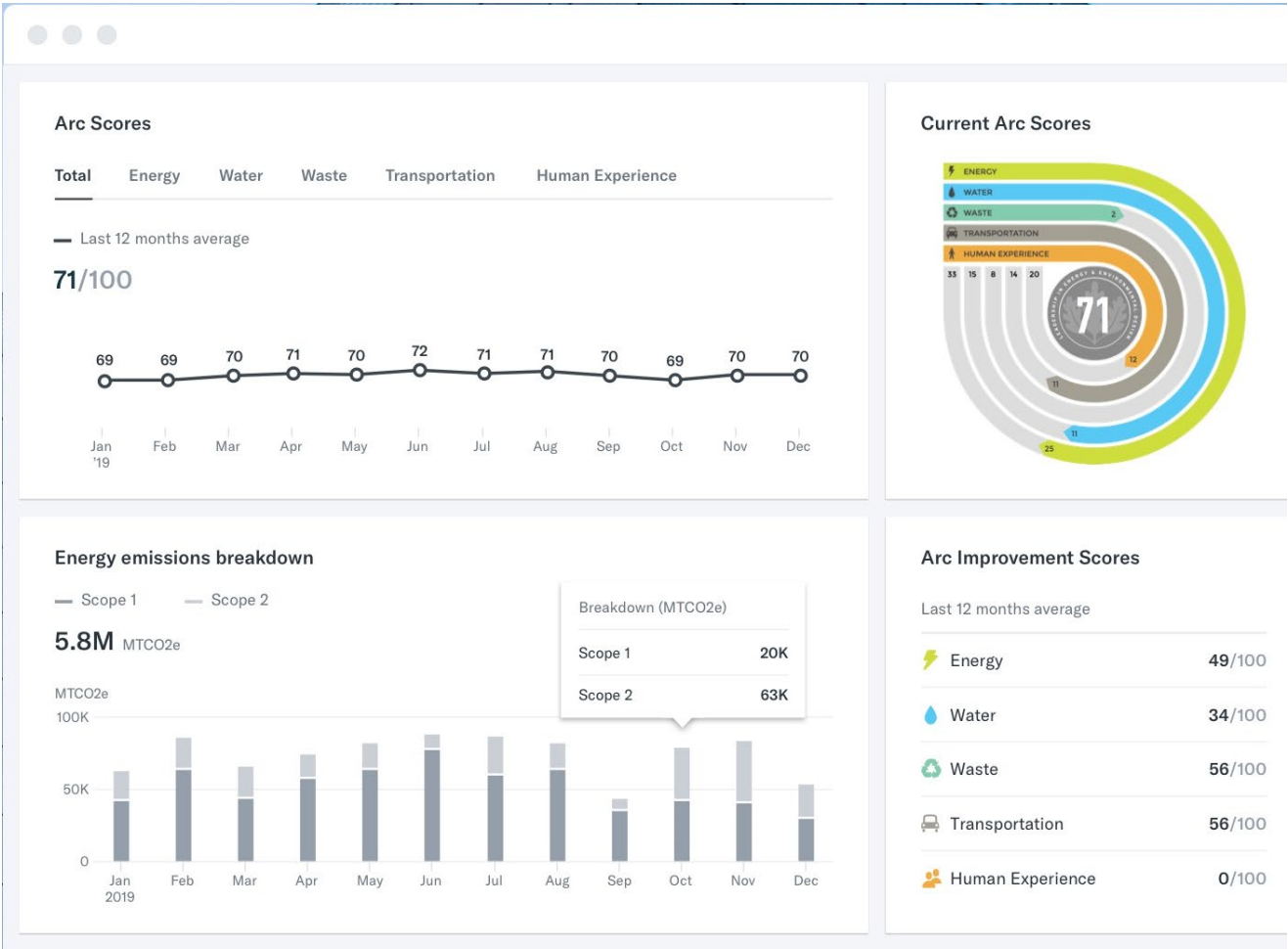
Water Metering and Reporting

Install or use existing permanent water meters to monitor and report the total water consumption for all water sources for the building and associated grounds.

The facility manager and/or tenant(s) must be able to access the meter data.

Meter alternative water sources separately from potable water.

Commit to sharing data with USGBC at least annually for 5 years or until the building changes ownership or lessee.



Enhanced Water Efficiency

- Option 1. Whole Project Water Use (1 – 8 points)
- Option 2. Fixture and Fittings – Calculated Reduction (1 – 3 points)
- Option 3. Appliance and Process Water (1 – 2 points)
- Option 4. Outdoor Water Use (1 – 2 points)
- Path 1: No irrigation: 2 points
 - Path 2: Efficient irrigation: 50% (1 point) 100% (2 points)
- Option 5. Optimize Process Water Use (1 – 2 points)
- Path 1: Limit Cooling Tower Cycles (1 – 2 points)
 - Path 2: Optimize Water Use for Cooling (1 – 2 points)
 - Path 3: Process Water Use (1 – 2 points)
- Option 6. Water Reuse (1 – 2 points)
- Path 1: Reuse-Ready System (1 point)
 - Path 2: Alternative Water Sources (2 points)

Option 1

Table 1. Points for reducing overall project water use

Percent reduction	Points	Total Points for Alternative Water
30%	1	2
35%	2	3
40%	3	4
45%	4	5
50%	5	6
55%	6	7
60%	7	8
65%	8	Exemplary Performance

Enhanced Water Efficiency – MOCK CALCULATIONS

Howard Community College Math + Athletics Complex

- No irrigation
- 33% indoor water use reduction

LEED v4

2 pts no irrigation
+ 2 pts indoor water reduction

4 pts

Percentage Reduction	Points (BD+C)
25%	1
30%	2
35%	3
40%	4
45%	5
50%	6

LEED v5

irrigation baseline = 2,572,704 gallons / yr
indoor water use baseline = 573,079 gallons / yr

Irrigation proposed = 0 gallons / yr
indoor water use baseline = 381,597 gallons / yr

88% Reduction

Option 1

Table 1. Points for reducing overall project water use

Percent reduction	Points	Total Points for Alternative Water
65%	8	Exemplary Performance

Water Metering and Leak Detection

Option 1. Submeters (1 point)

- Indoor plumbing fixtures and fittings
- Irrigation
- Each makeup water system
- Commercial kitchens
- Commercial laundries
- Each dwelling unit (if applicable)

Option 2. Leak detection sensors (1 point)

- Irrigation
- 50% of project flush fixtures (by fixture or restroom facility)
- Each makeup water system

Whole Home Leak Detection with Automatic Water Shutoff



Automatically shut off the water when a leak is detected



Remotely control your home's water from anywhere



Energy + Atmosphere

5 Prerequisites, 12 Credits
Potential Points: 33

Energy + Atmosphere

LEEDv4		LEEDv5	
POINTS	Energy + Atmosphere	Energy + Atmosphere	POINTS
Required	Fundamental Commissioning and Certification	Energy Metering and Reporting	Required
Required	Minimum Energy Performance	Fundamental Commissioning	Required
Required	Building-Level Energy Metering	Fundamental Refrigerant Management	Required
Required	Fundamental Refrigerant Management	Minimum Energy Efficiency	Required
6	Enhanced Commissioning	Operational Carbon Projection and Decarbonization Plan	Required
18	Optimize Energy Performance	Electrification	5
1	Advanced Energy Metering	Enhanced Commissioning	4
2	Demand Response	Enhanced Energy Efficiency	10
3	Renewable Energy Production	Enhanced Refrigerant Management	2
1	Enhanced Refrigerant Management	Grid Interactive	2
2	Green Power and Carbon Offsets	Reduce Peak Thermal Loads	5
		Renewable Energy	5

Energy Metering and Reporting

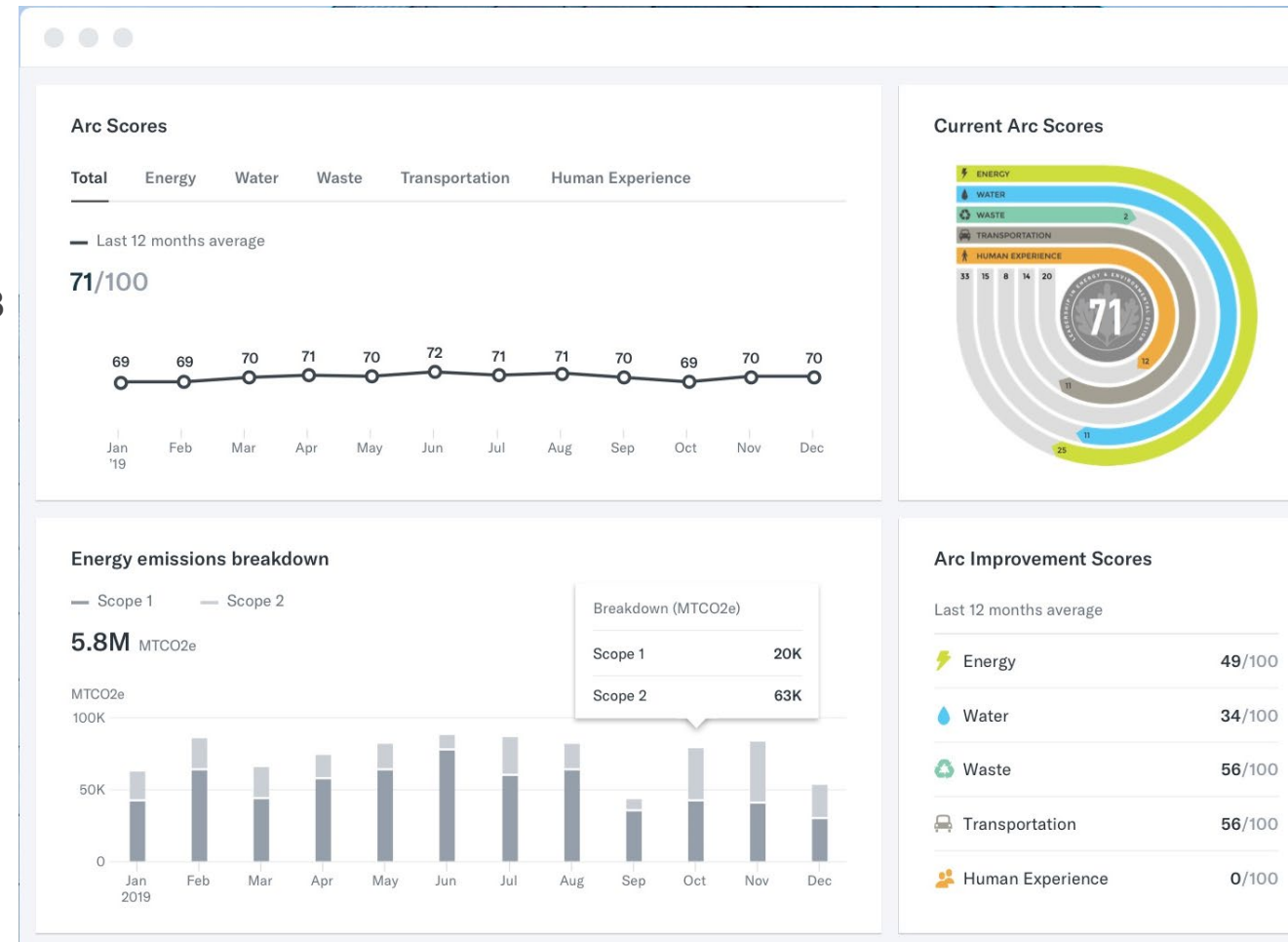
Energy Monitoring and Recording

- Install (or use existing) devices to monitor and record energy use per ASHRAE90.1.
 - 2019 for projects registered before January 1, 2028
 - 2022 for project registered on or after January 1, 2028
- Install (or use existing) devices to monitor and record energy consumption for electrical end uses and on-site renewable energy generation.

AND

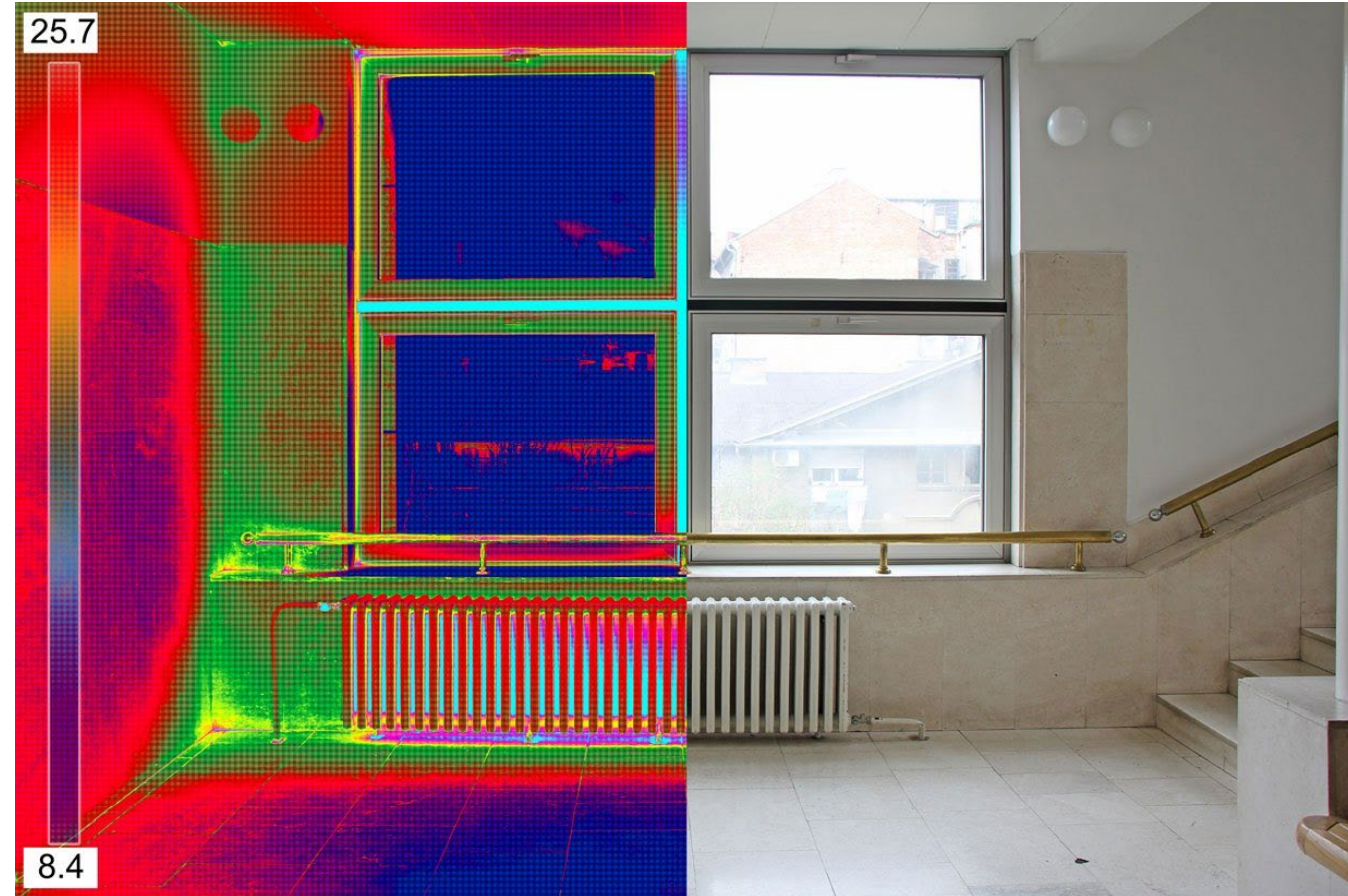
Report Energy Data

- Commit to sharing data with USGBC at least annually for 5 years or until the building changes ownership or lessee.



Fundamental Commissioning

Includes all building systems, controls, **and the building envelope.**

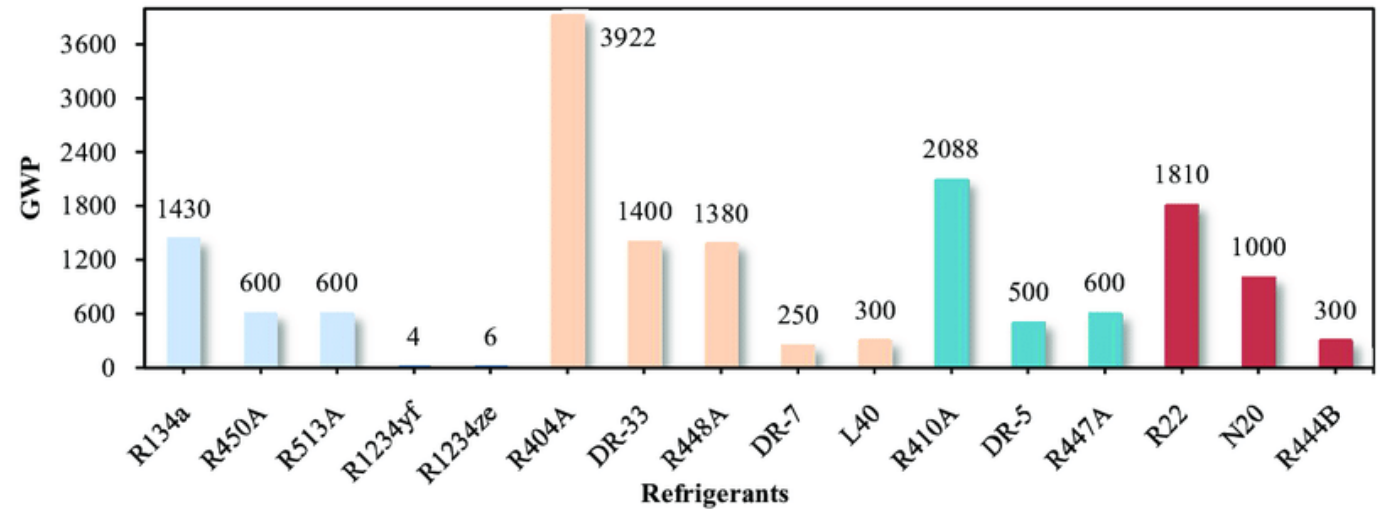


Fundamental Refrigerant Management

Option 1. No Refrigerants

Option 2. Refrigerants

- Complete refrigerant inventory.
- No HCFC refrigerants.
- Evaluate available alternatives during design process for any refrigerants with GWP > 700.
- Leak check and repair.



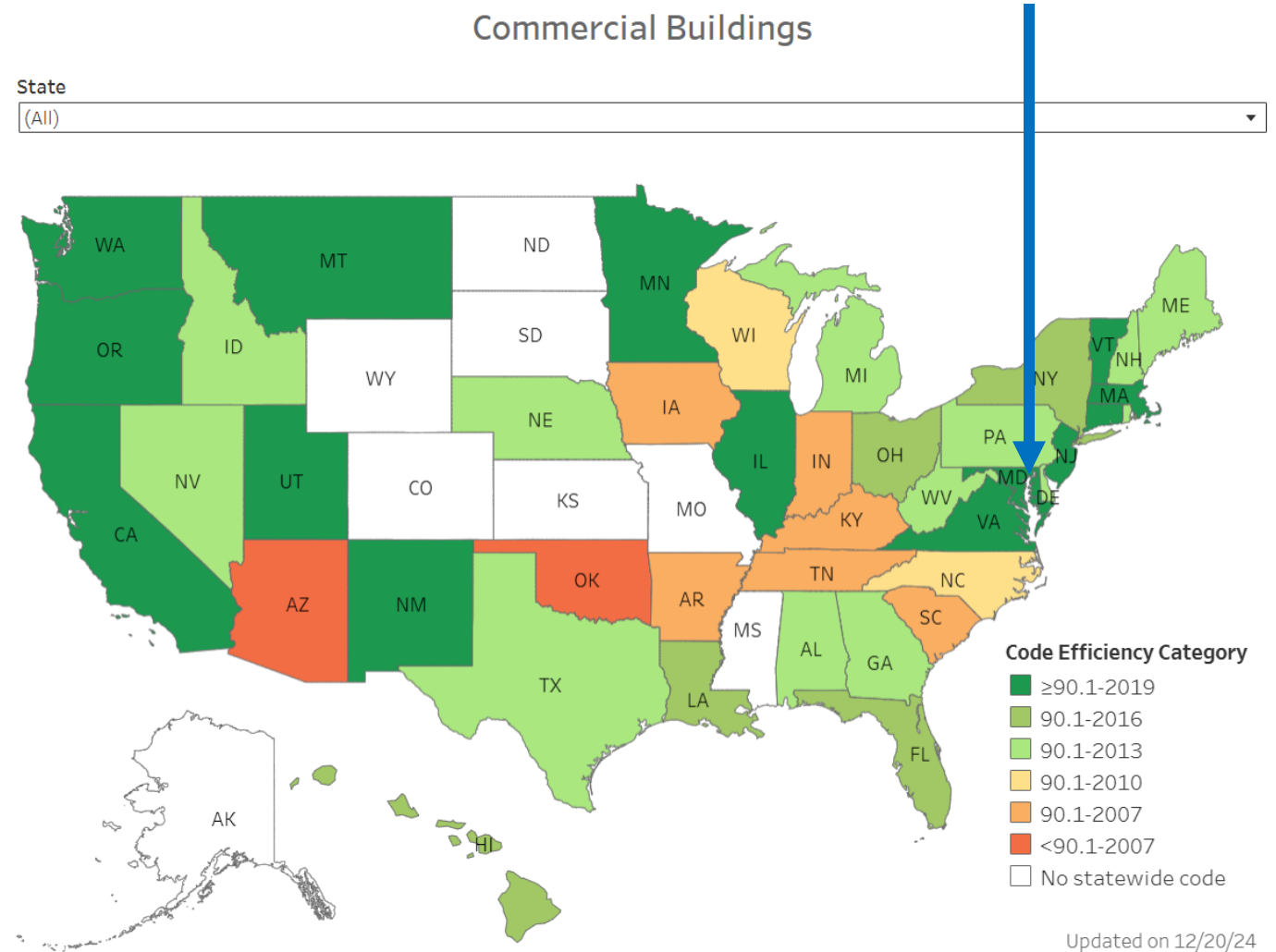
Devecioğlu, Atilla & Oruc, Vedat. (2015). Characteristics of Some New Generation Refrigerants with Low GWP. Energy Procedia. 75. 1452-1457. 10.1016/j.egypro.2015.07.258.

Minimum Energy Efficiency

Projects registering before January 1, 2028 may use either Option 1 or Option 2. Project registering on or after January 1, 2028 must comply with Option 2.

Option 1. ASHRAE 90.1 – 2019

Option 2. ASHRAE 90.1 – 2022



Operational Carbon Projection and Decarbonization Plan

Design Analysis

AND

Site Energy Estimate

AND

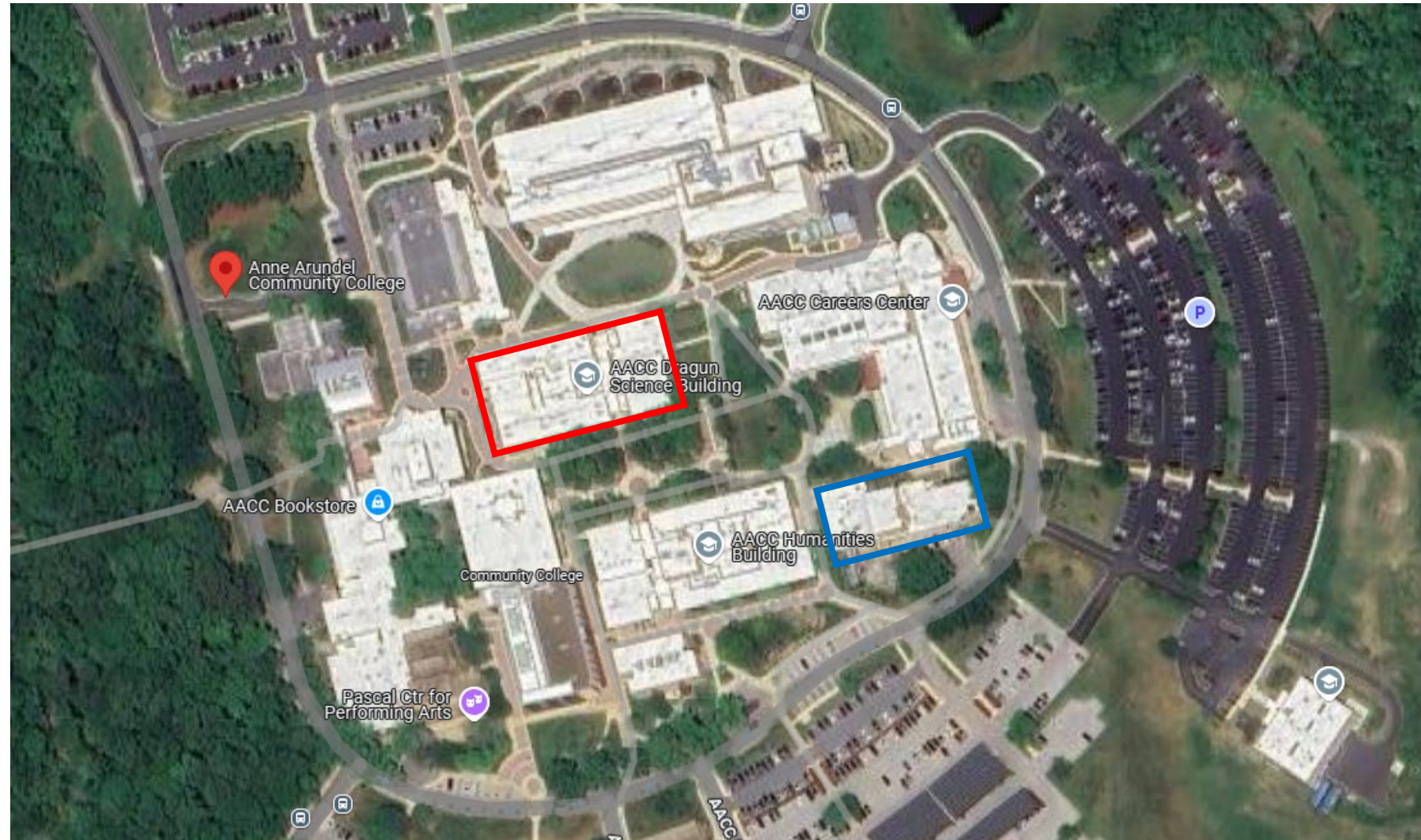
Review Carbon Projection

AND

Decarbonization Plan

Path 1. Design for Electrification

Path 2. Plan for Decarbonization

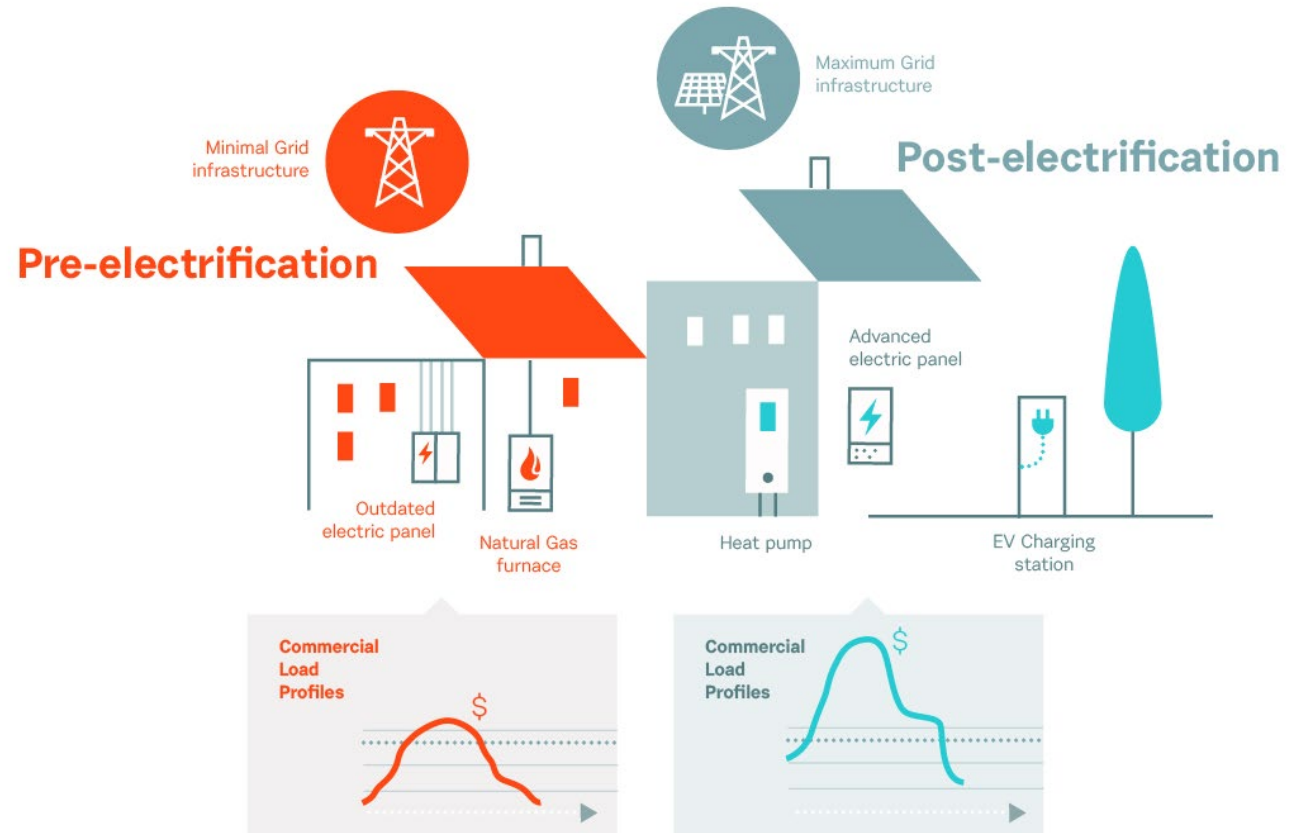


Electrification

Option 1. No On-Site Combustion (5 points)

Option 2. No On-Site Combustion Except at Low Temperatures (1 – 4 points)

- Path 1. Space Heating (2 points)
- Path 2. Water Heating (1 point)
- Path 3. Cooking and Other Process Loads (1 point)



Enhanced Energy Efficiency

Option 1. Prescriptive Path (1 – 10 points)

- Path 1. Regulated Loads (1 – 7 points)
 - Case 1. ASHRAE90.1-2019 (1 – 5 points)
 - Case 2. ASHRAE90.1-2022 (4 – 7 points)
- Path 2. Plug and Process Loads (1 – 4 points)
 - Case 1. Plug Load Management (1 point)
 - Case 2. Efficient Plug and Process Load Equipment (1 – 4 points)
 - Case 3. Plug and Process Load Exceptional Calculation (1 – 4 points)

Option 2. Energy Simulation (1 – 10 points)

- PI_{nre} = performance index for future source energy excluding on-site renewable contribution
- PI_t = performance index target for future source energy use

Path 1. Percentage Reduction excluding On-Site Renewable Contribution ($100\% - PI_{nre} / PI_t$)	or	Path 2. Percentage Reduction including On-Site Renewable Contribution ($100\% - PI / PI_t$)	Points
3%		10%	1
6%		20%	2
9%		30%	3
12%		40%	4
15%		50%	5
18%		60%	6
21%		70%	7
24%		80%	8
27%		90%	9
30%		100%	10

Grid Interactive

Option 1. Energy Storage (1 – 2 points)

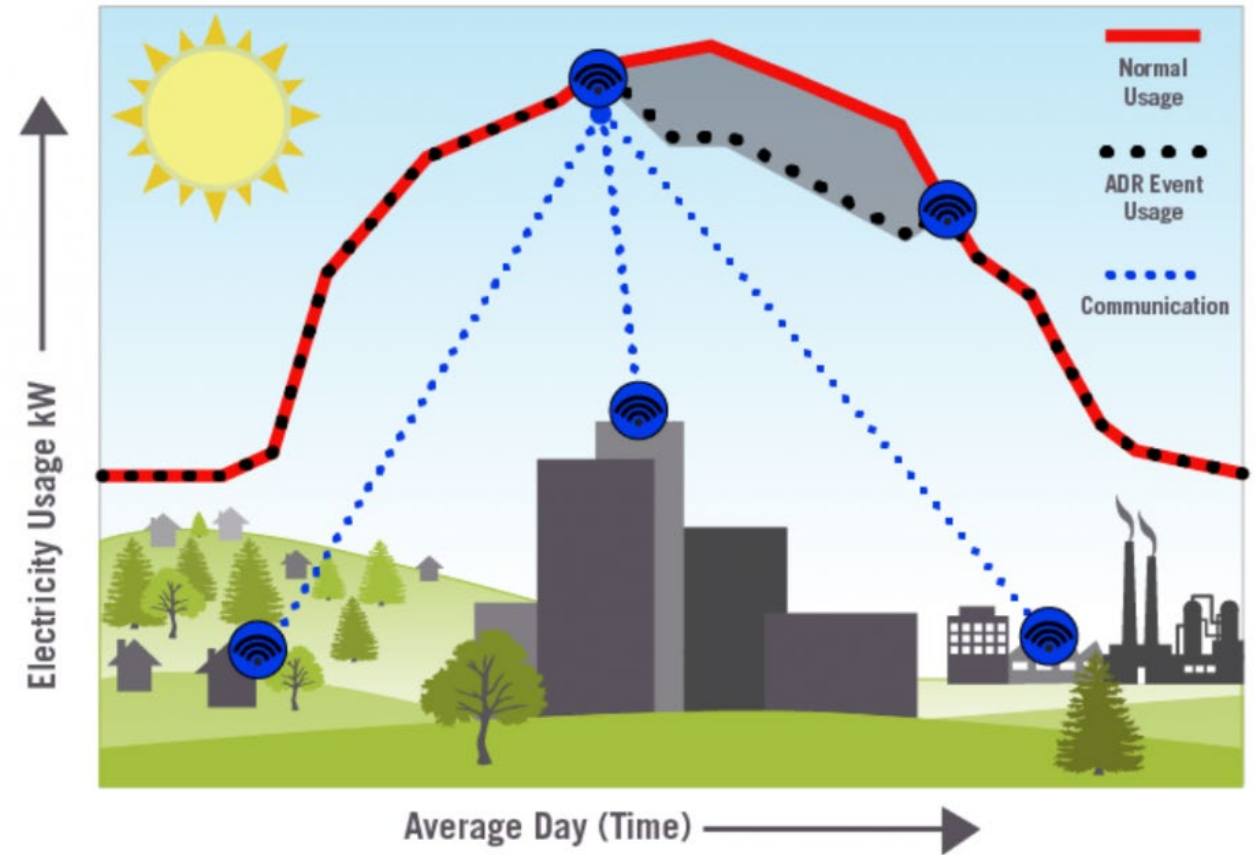
Option 2. Demand Response Program (1 point)

Option 3. Automated Demand-Side Management (1 point)

- Path 1. System-Level Controls (1 point)
- Path 2. Building Automated System (1 point)

Option 4. Power Resilience (1 point)

Automated Demand Response



Renewable Energy

Tier 1. On-site renewable energy generation or equity project

Tier 2. New off-site renewable electricity

Tier 3. Off-site renewable energy

Table 1. Points for Renewable Energy Procurement

Points	Tier 1			Tier 2	Tier 3
	Minimum Rated Capacity ¹	or	Percent of Annual Site Energy	Percent of Annual Site Energy	Percent of Annual Site Energy
1	A * 1 W / ft ² (A * 10.8 W/m ²)	or	5%	20%	50%
2	A * 2 W / ft ² (A * 21.6 W/m ²)	or	10%	40%	100%
3			20%	60%	
4			35%	80%	
5			100% Tier 1 and/or Tier 2 renewable energy		

A = the sum of gross floor area of all floors up to the three largest floors.

Materials + Resources

2 Prerequisites, 7 Credits
Potential Points: 18

Materials + Resources

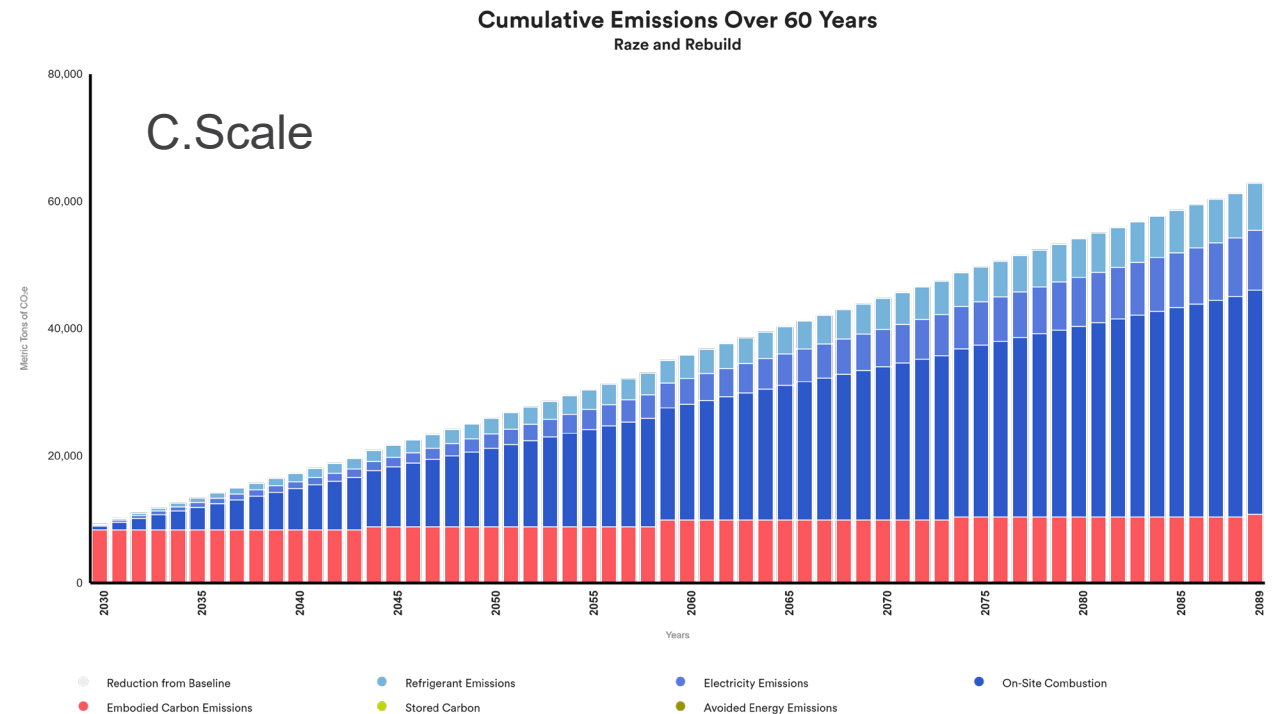
LEEDv4		LEEDv5	
POINTS	Materials + Resources	Materials + Resources	POINTS
Required	Storage and Collection of Recyclables	Quantify and Assess Embodied Carbon	Required
Required	Construction and Demolition Waste Management Planning	Planning for Zero Waste Operations	Required
5	Building Life-Cycle Impact Reduction	Building Product Selection and Procurement	5
2	Building Product Disclosure and Optimization – Environmental Product Declarations	Building and Materials Reuse	3
2	Building Product Disclosure and Optimization – Sourcing of Raw Materials	Construction and Demolition Waste Diversion	2
2	Building Product Disclosure and Optimization – Material Ingredients	Low-Emitting Materials	2
2	Construction and Demolition Waste Management	Reduce Embodied Carbon	6

Quantify and Assess Embodied Carbon

Embodied Carbon

AND

High-Priority Embodied Carbon Sources



Planning for Zero Waste Operations

Storage and Collection of Recyclables

Zero Waste Operations Planning



Building Product Selection and Procurement

Products must have achievements in one or more of the five criteria areas:

1. Climate health (Ex. EPD, Recycled Content)
2. Human health (Ex. HPD)
3. Ecosystem health (Ex. EPD, FSC)
4. Social health and equity (Ex. 8 ILO Conventions Certified)
5. Circular economy (Ex. Recycled Content, EPR, Reuse)

Option 1. Number of Manufacturers (1 – 3 points)

Option 2. Product Categories (1 – 5 points)

- Paints and coatings
- Adhesives and sealants
- Flooring
- Walls
- Ceilings
- Insulation
- Furniture
- Composite Wood
- Plumbing fixtures

Credit: 5 Points

Materials Pledge Meets Framework: How the CMF supports the Pledges		
A&D Pledge Bucket Description	CMF Sub-Buckets	Example Programs + Standards Referenced (full list to be released with Reference Guide)
 HUMAN HEALTH Support HH by preferring products that support and foster life throughout their life cycles and seek to eliminate the use of hazardous substances.	substances	HPD, Declare, C2C, BIFMA, LPC, GreenCircle CEF
	VOCs	CDPH, SCS Indoor Advantage, GreenGuard, BIFMA, SCAQMD
	Company human health impacts	Chemical Footprint Project, LPC, BIFMA, C2C
 CLIMATE HEALTH Support CH by preferring products that reduce carbon emissions and sequester more carbon than emitted.	embodied carbon	LCA, EPD, EC3, LPC, GreenCircle (GC) CEF
	company carbon	SBTi, CDP, GRI, GC Carbon Footprint Reduction, GreenCircle Certified Environmental Facts
	pollution	BIFMA, C2C
 ECOSYSTEM HEALTH Support EH by preferring products that support and regenerate the natural air, water, and biological cycles of life through thoughtful supply chain management and restorative company practices	Water footprint (product)	LPC, C2C, BIFMA, GreenCircle CEF, WaterSense
	Water footprint (company)	Global Water Footprint Assessment Standard, Alliance for Water Stewardship, CDP, GRI, B-Corp
	Biodiv & Conserv.	LPC, C2C, SCS Environmentally Preferable Product Certified, FSC, SFI, BIFMA
	Life cycle enviro. impacts	LCA, EPD, TRACI (US EPA)
 SOCIAL HEALTH & EQUITY Support SH+E by preferring products from mfgs that secure human rights in operations and in supply chains, positively impacting workers + communities where they operate	Supply chain	ILO, FSC, C2C, LPC, Copper Mark, PEFC, Design for Freedom
	Comp. workplace	JUST, B-Corp, UN Glob. Comp., C2C, LPC, BIFMA
	Community	BIFMA, JUST, FSC Certified, Certified B-Corp, LPC
 CIRCULAR ECONOMY Support CE by reusing and improving buildings and by designing for resiliency, adaptability, disassembly, and reuse, aspiring to a zero-waste goal for global construction activities.	Sourcing	FSC, SFI, USDA Biobased, ANSI 373 Sustainable Stone, C2C, LPC, BIFMA, Ecologo
	End of life	C2C, LPC, GreenCircle Closed Loop Product Certification, UL claims, SCS claims
	Packaging	FSC, SFI, LPC, C2C, USDA Biobased
	Company circularity	C2C, TRUE certification
	Waste	TRUE Certified, LPC, BIFMA, SCS Zero Waste, NSF Landfill-free, Greencircle Zero Waste

Reduce Embodied Carbon

Option 1. Whole Building Life-Cycle Assessment (1 – 6 points)

Option 2. EPD Analysis: Project-Average Approach (1 – 3 points)

- Path 1. Project-Average Approach (1 – 3 points)
- Path 2. Materials-Type Approach (1 – 2 points)

Option 3. Track Carbon Emissions from Construction Activities (1 – 2 points)

Table 2. Points for Tracking Emissions During Construction Activities

Pathway	Type of Construction-Phase Emissions to Track	LCA Modules	Points
Path 1	Track all fuel and utility usage for contractor jobsite operations	A5	1
Path 2	Track all fuel and utility usage for contractor and subcontractor jobsite operations	A5	2

Table 1. Points for embodied carbon reductions in Options 1-3

	Option 1. Whole Building Life-Cycle Assessment	Option 2. EPD Analysis: Project-Average Approach	Option 3. EPD Analysis by Material Category
Meet Baseline or Industry Average	2	1	3 material categories for 1 point or 5+ material categories for 2 points
10% Reduction in GWP	3	-	-
20% Reduction in GWP	4	2	-
30% Reduction in GWP	5	-	-
40%+ Reduction in GWP	6	3	-

Indoor Environmental Quality

3 Prerequisites, 8 Credits
Potential Points: 13

Indoor Environmental Quality

LEEDv4		LEEDv5	
POINTS	Indoor Environmental Quality	Indoor Environmental Quality	POINTS
Required	Minimum Indoor Air Quality Performance	Construction Management	Required
Required	Environmental Tobacco Smoke Control	Fundamental Air Quality	Required
2	Enhanced Indoor Air Quality Strategies	No Smoking or Vehicle Idling	Required
3	Low-Emitting Materials	Accessibility and Inclusion	1
1	Construction Indoor Air Quality Management Plan	Air Quality Testing and Monitoring	2
2	Indoor Air Quality Assessment	Enhanced Air Quality	1
1	Thermal Comfort	Occupant Experience	7
2	Interior Lighting	Resilient Spaces	2
3	Daylight		
1	Quality Views		
1	Acoustic Performance		

Construction Management

Plan addresses:

- No smoking
- Extreme heat protection
- HVAC protection
- Source Control
- Pathway interruption
- Housekeeping
- Scheduling

NEWS ANALYSIS

What Last Summer's Weather Taught Us about Jobsite Equity

Climate change symptoms, including wildfire smoke and extreme heat, are endangering outdoor workers and changing assumptions about productivity and construction timelines.

by [Elizabeth Waters](#)

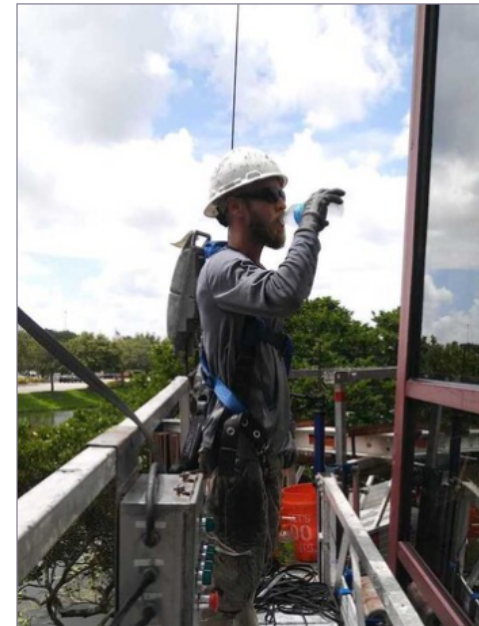
Climate change is threatening outdoor construction workers. Extreme heat and dangerous air quality from wildfire smoke are becoming more frequent and prolonged, occurring in places that have not previously experienced them. And without federal regulations in place, employers must make judgment calls about safety breaks and work stoppages in an industry notorious for its immense time pressures.

How climate change compromises safety

According to a [report](#) by the World Meteorological Organization (WMO), climate change increases the likelihood of prolonged heat waves, which in turn contribute to poor air quality by increasing the development of ground-level ozone (a.k.a. smog) as well as the risk of wildfire, dust storms, and other consequences of drought.

In an [August article](#) from *The Guardian*, author Oliver Milman cites data from the U.S. Centers for Disease Control and Prevention (CDC) that shows a 95% increase in annual heat-related deaths in the U.S. from 2010 to 2022. He writes that, although the total global death count from extreme heat in the summer of 2023 is still unknown, the world-record-breaking temperatures in June, July, and August mean fatalities likely surpassed those of recent years.

Construction laborers are at particular risk of heat illness and death. They often work outside and on hot surfaces, and they are required to wear long-sleeved shirts, boots, jeans, hard hats, glasses, and respirators that can make it almost impossible to keep cool. According to the Bureau of Labor Statistics, [436 construction workers died](#) of heat exposure between 2011 and 2021. But, [as reported](#) by Anita Snow and Kendria Lafleur of the *Associated Press*, official numbers of heat-related deaths are certainly undercounts. Such fatalities are often recorded only as their immediate cause, such as heart disease.



https://www.buildinggreen.com/news-analysis/what-last-summer-s-weather-taught-us-about-jobsite-equity?utm_source=chatgpt.com

No Smoking or Vehicle Idling

No indoor or outdoor smoking.

Prohibit vehicle idling on-site.



Accessibility and Inclusion

Comply with local accessibility codes

AND

Include at least 10 strategies from these accessibility categories:

- Physical diversity
 - Ex. Wave-to-open or press door operators, alternate stair routes
- Safety and aging
 - Ex. Non-slip flooring, transition strips and fixed area rugs, audible and visual emergency alerts, closed risers, visual contrast of interiors
- Social health
 - Ex. Lactation rooms, all-gender restrooms
- Navigation
 - Ex. Wayfinding signage, pattern and color blocking, symbols on signage



Occupant Experience

5 separate LEEDv4 credits
worth 8 points

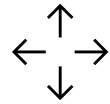
Quality Views
Thermal Comfort
Acoustic Performance
Interior Lighting
Daylight

Combined into one



Option 1. Biophilic Environment (1 – 4 points)

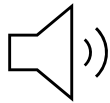
- Path 1. Indoor Biophilic Design (1 point)
- Path 2. Quality Views (2 – 3 points)



Option 2. Adaptable Environment (1 point)



Option 3. Thermal Environment (1 point)



Option 4. Sound Environment (1 - 2 points)

- Path 1. Mapping Acoustical Expectations for Indoor and Outdoor Spaces (1 point)
- Path 2. Acoustic Criteria for Indoor and Outdoor Spaces (1 point)



Option 5. Lighting Environment (1 – 6 points)

- Path 1. Solar Glare (1 point)
- Path 2. Quality Electric Lighting (1 point)
- Path 3. Proximity to Windows for Daylight Access (1 point)
- Path 4. Daylight Simulation (1 – 4 points)

Resilient Spaces

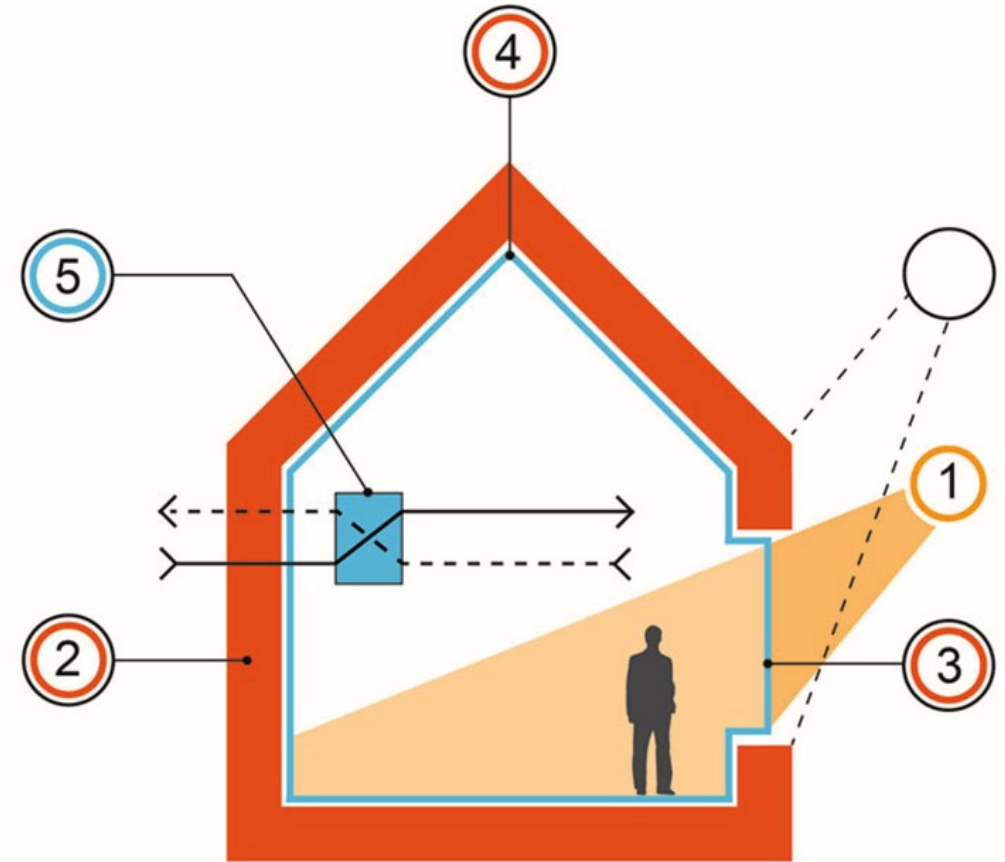
Option 1. Management Mode for Episodic Outdoor Ambient Conditions – NC Only (1 point)

Option 2. Management Mode for Respiratory Diseases – NC Only (1 point)

Option 3. Design for Occupant Thermal Safety during Power Outages (1 – 2 points)

- Path 1. Consider Extreme Heat (1 point)
- Path 2. Consider Extreme Cold (1 point)

Option 4. Operable Windows (1 - 2 points)



PASSIVE HOUSE PRINCIPLES

- ① SOLAR ORIENTATION
- ② HIGH INSULATION
- ③ HIGH PERFORMANCE WINDOWS
- ④ AIR TIGHT ENCLOSURE
- ⑤ BALANCED VENTILATION WITH HEAT RECOVERY

Project Priorities + Innovation

2 Credits

Potential Points: 10

Project Priorities + Innovation

LEEDv4		LEEDv5	
POINTS	Innovation	Project Priorities + Innovation	POINTS
1	LEED Accredited Professional	LEED Accredited Professional	1
5	Innovation	Project Priorities	9
4	Regional Priority		

Project Priorities

Any combination for a maximum of 9 points:

- Regional Priority
- Project-Type Credits
- Exemplary Performance
- Pilot Credits
- Innovative Strategies

v4.1


LEED BD+C: New Construction

Brattleboro, Vermont


Projects registered prior to **May 8th 2016**, regional priority selections are based on zip code. [Click here](#) to view zip code lookup

Map

Satellite



Map data ©2020 Google, INEGI Terms of Use

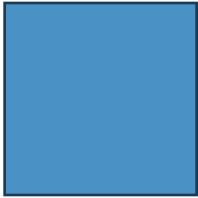


Site Assessment
Sustainable sites
Up to 1 points
Required Point Threshold: 1

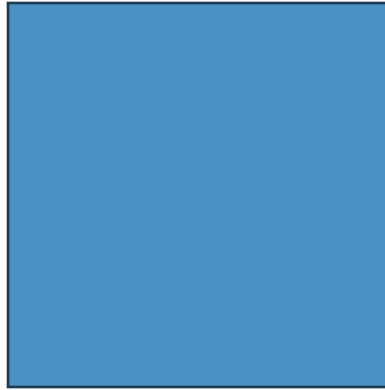
LEED BD+C: New Construction, LEED BD+C: Core And Shell, LEED BD+C: Schools, LEED BD+C: Retail, LEED BD+C: Healthcare, LEED BD+C: Data Centers, LEED BD+C: Hospitality, LEED BD+C: Warehouses And Distribution Centers • V4.1 - LEED V4.1

Climate Solutions Now

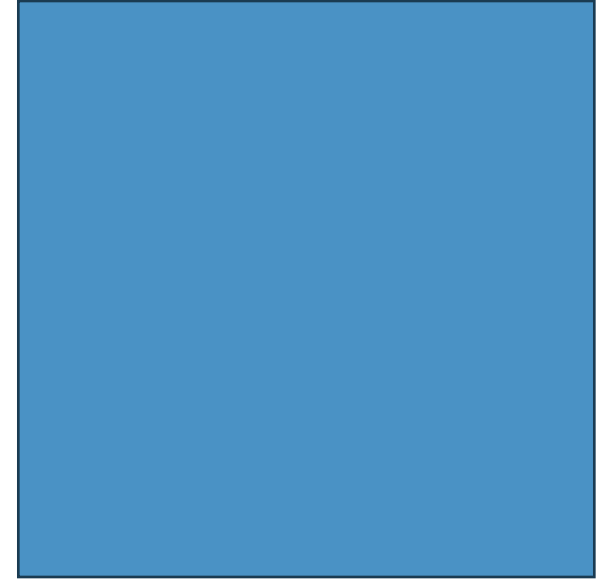
Small, Medium, and Large



If less than 7,500 GSF,
then IECC2021 by either
the prescriptive or
performance pathways.



If 7,500 – 34,999 GSF, then
IECC2021 by either the
prescriptive or performance
pathway and LEED Silver or
better to meet the High
Performance Green
Building Program.



If 35,000+ GSF, then IECC2021 by
either the prescriptive or
performance pathway and LEED
Silver or better to mee the High
Performance Green Building
Program, and no on-site combustion
by 2040.

Recommendations

- 1. Map your assets. What fits into each of the three categories?
- 2. Meter at a building scale.
- 3. Manage your metered data.

Size	Building	Cost
Large		
	Henson Hall	\$\$\$
	Sea Gull Square	\$\$\$
	Fulton Hall	\$\$\$
	Maggs Gym and Annex	\$\$\$
Medium		
	Guerrieri Student Union	\$\$
	Perdue Hall	\$
	Chester Hall	\$
Small		
	Chesapeake Hall	\$
	Saint Martin Hall	\$
	Severn Hall	\$



So What?

So what?

- LEEDv5 and Climate Solutions Now are aligned in their decarbonization ambitions.
- The scope of LEED certification expands under LEEDv5, but LEEDv5 in general is a more targeted transition from LEEDv4 than the transition from LEED 2009 to LEEDv4 was.
- Energy performance benchmark upgrades to ASHRAE90.1-2019 and ASHRAE90.1-2022 depending on when a project registers.
- Energy performance metric transitions to carbon.
- It's likely a tracking "high Silver / low Gold" in Maryland under LEEDv4 would achieve "high Certified / low Silver" under LEEDv5.

Likely Typical Outcomes HCC MAC – LEED v4



LEED v4 for BD+C: New Construction and Major Renovation

Project Checklist

Project Name: HCC MAC

Date: 3/12/2025

Y ? N
1

Credit Integrative Process

1

6	0	10	Location and Transportation	16
1		x	Credit LEED for Neighborhood Development Location	16
1			Credit Sensitive Land Protection	1
1		1	Credit High Priority Site	2
2		3	Credit Surrounding Density and Diverse Uses	5
		5	Credit Access to Quality Transit	5
1			Credit Bicycle Facilities	1
1			Credit Reduced Parking Footprint	1
		1	Credit Green Vehicles	1

5	0	5	Sustainable Sites	10
Y			Prereq Construction Activity Pollution Prevention	Required
1			Credit Site Assessment	1
		2	Credit Site Development - Protect or Restore Habitat	2
1			Credit Open Space	1
		3	Credit Rainwater Management	3
2			Credit Heat Island Reduction	2
1			Credit Light Pollution Reduction	1

5	0	6	Water Efficiency	11
Y			Prereq Outdoor Water Use Reduction	Required
Y			Prereq Indoor Water Use Reduction	Required
Y			Prereq Building-Level Water Metering	Required
2			Credit Outdoor Water Use Reduction	2
2		4	Credit Indoor Water Use Reduction	6
		2	Credit Cooling Tower Water Use	2
1			Credit Water Metering	1

18	2	10	Energy and Atmosphere	33
Y			Prereq Fundamental Commissioning and Verification	Required
Y			Prereq Minimum Energy Performance	Required
Y			Prereq Building-Level Energy Metering	Required
Y			Prereq Fundamental Refrigerant Management	Required
5		1	Credit Enhanced Commissioning	6
12		3	Credit Optimize Energy Performance	18
		1	Credit Advanced Energy Metering	1
		2	Credit Demand Response	2
		3	Credit Renewable Energy Production	3
1			Credit Enhanced Refrigerant Management	1
		2	Credit Green Power and Carbon Offsets	2

8	0	5	Materials and Resources	13
Y			Prereq Storage and Collection of Recyclables	Required
Y			Prereq Construction and Demolition Waste Management Planning	Required
3		2	Credit Building Life-Cycle Impact Reduction	5
1		1	Credit Building Product Disclosure and Optimization - Environmental Product Declarations	2
1		1	Credit Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
1		1	Credit Building Product Disclosure and Optimization - Material Ingredients	2
2			Credit Construction and Demolition Waste Management	2

7	1	8	Indoor Environmental Quality	16
Y			Prereq Minimum Indoor Air Quality Performance	Required
Y			Prereq Environmental Tobacco Smoke Control	Required
1		1	Credit Enhanced Indoor Air Quality Strategies	2
3			Credit Low-Emitting Materials	3
1			Credit Construction Indoor Air Quality Management Plan	1
1		1	Credit Indoor Air Quality Assessment	2
1			Credit Thermal Comfort	1
		2	Credit Interior Lighting	2
		3	Credit Daylight	3
		1	Credit Quality Views	1
		1	Credit Acoustic Performance	1

6	0	0	Innovation	6
5			Credit Innovation	5
1			Credit LEED Accredited Professional	1

3	0	1	Regional Priority	4
1			Credit Regional Priority: Enhanced Refrigerant Management: 1 point threshold	1
1			Credit Regional Priority: Sensitive Land Protection: 1 point threshold	1
1			Credit Regional Priority: Reduced Parking Footprint: 1 point threshold	1
		1	Credit Regional Priority: Indoor Water Use Reduction: 3 point threshold	1

59	3	45	TOTALS	Possible Points: 110
Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110				

CONSTRUCTION PHASE PREREQS / CREDITS

59 points – Silver Certification

Pending LEEDv4 scorecard.

*this scorecard does not reflect a completed project. The project is still pursuing certification.

Likely Typical Outcomes HCC – LEED v5

LEED v5 Building Design + Construction: New Construction

Y	?	N			
1	0	0	Integrative Process, Planning & Assessments		1
x			Prereq Climate Resilience Assessment		Required
x			Prereq Human Impact Assessment		Required
x			Prereq Carbon Assessment		Required
1			Credit Integrative Design Process		1
7	0	8	Location + Transportation		15
2		4	Credit Compact and Connected Development		6
		2	Credit Electric Vehicles		2
		2	Credit Equitable Development		2
1			Credit Sensitive Land Protection		1
4			Credit Transportation Demand Management		4
3	0	8	Sustainable Sites		11
x			Prereq Minimize Site Disturbance		Required
1			Credit Accessible Outdoor Space		1
		2	Credit Biodiverse Habitat		2
		2	Credit Enhanced Resilient Site Design		2
		3	Credit Rainwater Management		3
1		1	Credit Heat Island Reduction		2
1			Credit Light Pollution Reduction		1
4	0	5	Water Efficiency		9
x			Prereq Minimum Water Efficiency		Required
x			Prereq Water Metering and Reporting		Required
3		5	Credit Enhanced Water Efficiency		8
1			Credit Water Metering and Leak Detection		1

13	0	20	Energy + Atmosphere		33
x			Prereq Energy Metering and Reporting		Required
x			Prereq Fundamental Commissioning		Required
x			Prereq Fundamental Refrigerant Management		Required
x			Prereq Minimum Energy Efficiency		Required
x			Prereq Operational Carbon Projection and Decarbonization Plan		Required
		5	Credit Electrification		5
3		1	Credit Enhanced Commissioning		4
10			Credit Enhanced Energy Efficiency		10
		2	Credit Enhanced Refrigerant Management		2
		2	Credit Grid-Interactive		2
		5	Credit Reduce Peak Thermal Loads		5
		5	Credit Renewable Energy		5
9	0	8	Materials + Resources		18
x			Prereq Access and Quantify Embodied Carbon		Required
x			Prereq Planning for Zero Waste Operations		Required
2		3	Credit Building Product Disclosure and Optimization		5
		2	Credit Building and Materials Reuse		3
2			Credit Construction and Demolition Waste Diversion		2
2			Credit Low-Emitting Materials		2
3		3	Credit Reduce Embodied Carbon		6
4	0	9	Indoor Environmental Quality		13
x			Prereq Construction Management Plan		Required
x			Prereq Fundamental Air Quality		Required
x			Prereq No Smoking or Vehicle Idling		Required
		1	Credit Accessibility and Inclusion		1
2			Credit Air Quality Testing and Monitoring		2
1			Credit Enhanced Air Quality		1
1		6	Credit Occupant Experience		7
		2	Credit Resilient Spaces		2
10	0	0	Project Priorities + Innovation		10
1			Credit LEED Accredited Professional		1
9			Credit Project Priorities		9

51	0	58	TOTALS	Possible Points:	110
Certified: 40 - 49 points, Silver: 50 - 59 points, Gold: 60 - 79 points, Platinum: 80+ points					

51 points – Silver Certification

Comparing the same building under a LEEDv5 scorecard*.

*this scorecard assumes “no” for all the new v5 credits.

Summary of Changes Resource

Summary of changes to LEED v5

3

LOCATION AND TRANSPORTATION

The Location and Transportation (LT) category emphasizes the critical role of location and transportation decisions in project long-term sustainability potential. By prioritizing strategies as the intersection of resource access, land use, and transportation, this category guides projects toward an efficient, equitable, and low-carbon future. The category encourages projects to utilize existing infrastructure, increase urban density, and implement transportation demand management strategies. It also supports electric vehicle adoption and other low-carbon alternatives to reduce greenhouse gas emissions. The overall intent aims to improve quality of life, conserve ecosystems, and contribute to decarbonization. Notable changes in LEED v5 include the addition of three credits to consolidate many of the previous strategies, an emphasis on electric vehicles, and an emphasis on equitable development strategies.



Credit	LEED for Neighborhood Development Location	<ul style="list-style-type: none">Credit removed and will be updated and added to the Project Priority Library in the future.
Credit	Sensitive Land Protection	<ul style="list-style-type: none">Added sensitive land type steep slopes.
Credit	High-Priority Site	<ul style="list-style-type: none">Incorporated into new credit: LTc Equitable Development.Removed economically disadvantaged community location path.Removed equity and community benefits path.Affordable housing in residential or mixed-use projects pathway is now called location-efficient affordable housing and added requirements and increased point threshold.
Credit	Surrounding Density and Diverse Uses	<ul style="list-style-type: none">Surrounding density incorporated into new credit: LTc Compact and Connected Development, Option 1, and reduced point thresholds.Diverse uses incorporated into new credit: LTc Compact and Connected Development Option 3, and added a new option to document 11 or more diverse uses for an additional point.Walkable location incorporated into the new credit: LTc Compact and Connected Development Option 3, reduced point thresholds, and increased the minimum Walk Score.
Credit	Access to Quality Transit	<ul style="list-style-type: none">Incorporated access to public transit service into new credit: LTc Compact and Connected Development, Option 2.Modified transit service requirements (# of weekday and weekend trips) and point thresholdsClarified transit trip criteria.Removed clarification on temporarily rerouted transit services.Renamed access to project-sponsored transit service pathway to project-sponsored transit service, modified transit service criteria, and modified total daily trips options.
Credit	Bicycle Facilities	<ul style="list-style-type: none">Incorporated into new credit: LTc Transportation Demand Management, Option 2.Modified requirements for bicycle storage location, other bicycle network criteria, and point thresholds for bicycle networks.Modified requirements and point thresholds for bicycle storage.

U.S. Green Building Council



Thank You!