

# LEED v5 FOR BUILDING DESIGN AND CONSTRUCTION (BD+C)

LEED v5 is the latest version of the globally recognized comprehensive framework for green building practices. LEED v5 isn't just about today's buildings; it's about building a better future. It's a comprehensive set of strategies designed to drive the market towards a near-zero carbon reality that is healthy, resilient, and promotes the wise, safe use of all resources.

## GOAL OF LEED v5 BD+C

Drive new buildings to exemplify the decarbonized, humane, and biodiverse future that we want to build and inhabit.

## HOW WE GET THERE

- Enable customized methodology based on project context.
- Integrate strategies that can be leveraged to inform decision-making during design.
- Provide the framework to create buildings that utilize renewable sources of energy.
- Evolve established sustainability practices to effectively tackle contemporary challenges.

## NEW BUILDINGS

LEED v5 offers relevant frameworks for new buildings, with specific guidance and credits, to tackle unique sustainability challenges and opportunities worldwide.

This rating system addresses design and construction activities for new buildings, major renovations of existing buildings and core and shell developments. LEED v5 for Building Design and Construction focuses on the overall performance and impact of the building, considering factors from site selection and design to construction and operation, including:

- The **whole building approach** considers the interconnectedness of various building systems and promotes an integrated design process that enhances energy efficiency, water conservation, and other sustainability aspects throughout the entire structure.
- Embodied carbon addresses emissions associated with materials and construction processes. This is important for new buildings, as LEED v5 requires embodied carbon accounting for all projects, and the selection of materials and construction methods impacts the facility's long-term carbon footprint.
- The **lifecycle assessment (LCA)** is used to evaluate the environmental impacts of building materials and assemblies throughout their entire lifecycle—from extraction and manufacturing to use and disposal—and must be compliant with ISO 14044 in LEED v5. This allows more informed decisions about material selection in new construction projects.
- **Innovative technologies** to promote the adoption of strategies in new buildings, including advanced building automation systems and meters, renewable energy integration, and high-performing building envelopes.

- **Decarbonization** promotes mitigating all major sources of carbon emissions through strategies such as energy efficiency, utilizing renewable energy, reduced peak loads and refrigerant use, reducing the embodied carbon in buildings, and more.
- **Quality of life** uses human-centric strategies to improve health and well-being, resilience, and equity for building occupants and their communities.
- **Ecological conservation** considers the interconnectedness of ecological systems and human-built environments, aiming to minimize ecological harm while promoting restoration and biodiversity conservation.

## KEY IMPROVEMENTS IN LEED V5 FOR BD+C

- It adopts a 5-year development cycle to provide increased predictability to the market.
- It further aligns performance indicators and data needs from design and construction to operations and maintenance to capture a building's lifecycle.
- It recognizes the importance of building resilience in the face of climate change and encourages strategies to prepare for and adapt to extreme weather events and other environmental challenges.
- Credits address social equity, such as considering the needs of diverse populations, promoting inclusivity, and supporting community well-being.

## BUILDING DESIGN AND CONSTRUCTION



		New Construction	Core and Shell
Integrative Process, Planning and Assessments (IP)		1	7
IPp1	Climate Resilience Assessment	Required	Required
IPp2	Human Impact Assessment	Required	Required
IPp3	Carbon Assessment	Required	Required
IPp4	Tenant Guidelines	-	Required
IPc1	Integrative Design Process	1	1
IPc2	Green Leases	-	6



		New Construction	Core and Shell
Location and Transportation (LT)		15	15
LTc1	Sensitive Land Protection	1	1
LTc2	Equitable Development	2	2
LTc3	Compact and Connected Development	6	6
LTc4	Transportation Demand Management	4	4
LTc5	Electric Vehicles	2	2



		New Construction	Core and Shell
Sustainable Sites (SS)		11	11
SSp1	Minimize Site Disturbance	Required	Required
SSc1	Biodiverse Habitat	2	2
SSc2	Accessible Outdoor Space	1	1
SSc3	Rainwater Management	3	3
SSc4	Enhanced Resilient Site Design	2	2
SSc5	Heat Island Reduction	2	2
SSc6	Light Pollution Reduction	1	1



		New Construction	Core and Shell
Water Efficiency (WE)		9	8
WEp1	Water Metering and Reporting	Required	Required
WEp2	Minimum Water Efficiency	Required	Required
WEc1	Water Metering and Leak Detection	1	1
WEc2	Enhanced Water Efficiency	8	7



		New Construction	Core and Shell
Energy and Atmosphere (EA)		33	27
EAp1	Operational Carbon Projection and Decarbonization Plan	Required	Required
EAp2	Minimum Energy Efficiency	Required	Required
EAp3	Fundamental Commissioning	Required	Required
EAp4	Energy Metering and Reporting	Required	Required
EAp5	Fundamental Refrigerant Management	Required	Required
EAc1	Electrification	5	4
EAc2	Reduce Peak Thermal Loads	5	5
EAc3	Enhanced Energy Efficiency	10	7
EAc4	Renewable Energy	5	4
EAc5	Enhanced Commissioning	4	3
EAc6	Grid Interactive	2	2
EAc7	Enhanced Refrigerant Management	2	2



		18	21
Materials and Resources (MR)			
MRp1	Planning for Zero Waste Operations	Required	Required
MRp2	Quantify and Assess Embodied Carbon	Required	Required
MRc1	Building and Materials Reuse	3	5
MRc2	Reduce Embodied Carbon	6	8
MRc3	Low-Emitting Materials	2	1
MRc4	Building Product Selection and Procurement	5	5
MRc5	Construction and Demolition Waste Diversion	2	2



		13	11
Indoor Environmental Quality (EQ)			
EQp1	Construction Management	Required	Required
EQp2	Fundamental Air Quality	Required	Required
EQp3	No Smoking or Vehicle Idling	Required	Required
EQc1	Enhanced Air Quality	1	1
EQc2	Occupant Experience	7	7
EQc3	Accessibility and Inclusion	1	1
EQc4	Resilient Spaces	2	2
EQc5	Air Quality Testing and Monitoring	2	-



		New Construction	Core and Shell
Project Priorities (PR)		10	10
PRc1	Project Priorities	9	9
PRc2	LEED AP	1	1
Total		Possible Points: 110	110

## DECARBONIZATION

		NEW CONSTRUCTION	CORE AND SHELL
IP Prereq	Carbon Assessment	Required	Required
IP Prereq	Tenant Guidelines	-	Required
IP Credit	Integrative Design Process	1	1
IP Credit	Green Leases	-	6
LT Credit	Compact and Connected Development	6	6
LT Credit	Transportation Demand Management	4	4
LT Credit	Electric Vehicles	2	2
SS Credit	Heat Island Reduction	2	2
WE Prereq	Minimum Water Efficiency	Required	Required
WE Credit	Water Metering and Leak Detection	1	1
WE Credit	Enhanced Water Efficiency	8	7
EA Prereq	Operational Carbon Projection and Decarbonization Plan	Required	Required
EA Prereq	Minimum Energy Efficiency	Required	Required
EA Prereq	Fundamental Commissioning	Required	Required
EA Prereq	Energy Metering and Reporting	Required	Required
EA Prereq	Fundamental Refrigerant Management	Required	Required
EA Credit	Electrification	5	4
EA Credit	Reduce Peak Thermal Loads	5	5
EA Credit	Enhanced Energy Efficiency	10	7
EA Credit	Renewable Energy	5	4
EA Credit	Enhanced Commissioning	4	3
EA Credit	Grid Interactive	2	2
EA Credit	Enhanced Refrigerant Management	2	2
MR Prereq	Planning for Zero Waste Operations	Required	Required
MR Prereq	Quantify and Assess Embodied Carbon	Required	Required
MR Credit	Building and Materials Reuse	3	5
MR Credit	Reduce Embodied Carbon	6	8
MR Credit	Building Product Selection and Procurement	5	5
MR Credit	Construction and Demolition Waste Diversion	2	2

## QUALITY OF LIFE

		NEW CONSTRUCTION	CORE AND SHELL
IP Prereq	Climate Resilience Assessment	Required	Required
IP Prereq	Tenant Guidelines	-	Required
IP Prereq	Human Impact Assessment	Required	Required
IP Credit	Integrative Design Process	1	1
IP Credit	Green Leases	-	6
LT Credit	Equitable Development	2	2
LT Credit	Compact and Connected Development	6	6
LT Credit	Transportation Demand Management	4	4
SS Credit	Accessible Outdoor Space	1	1
SS Credit	Enhanced Resilient Site Design	2	2
SS Credit	Heat Island Reduction	2	2
WE Credit	Water Metering and Leak Detection	1	1
MR Credit	Low Emitting Materials	2	1
MR Credit	Building Product Selection and Procurement	5	5
EQ Prereq	Construction Management	Required	Required
EQ Prereq	Fundamental Air Quality	Required	Required
EQ Prereq	No Smoking or Vehicle Idling	Required	Required
EQ Credit	Enhanced Air Quality	1	1
EQ Credit	Occupant Experience	7	7
EQ Credit	Accessibility and Inclusion	1	1
EQ Credit	Resilient Spaces	2	2
EQ Credit	Air Quality Testing and Monitoring	2	-

## ECOLOGICAL CONSERVATION AND RESTORATION

		NEW CONSTRUCTION	CORE AND SHELL
IP Prereq	Tenant Guidelines	-	Required
IP Credit	Integrative Design Process	1	1
IP Credit	Green Leases	-	6
LT Credit	Sensitive Land Protection	1	1
LT Credit	Compact and Connected Development	6	6
SS Prereq	Minimized Site Disturbance	Required	Required
SS Credit	Biodiverse Habitat	2	2
SS Credit	Accessible Outdoor Space	1	1
SS Credit	Rainwater Management	3	3
SS Credit	Enhanced Resilient Site Design	2	2
SS Credit	Heat Island Reduction	2	2
SS Credit	Light Pollution Reduction	1	1
WE Prereq	Water Metering and Reporting	Required	Required
WE Prereq	Minimum Water Efficiency	Required	Required
WE Credit	Water Metering and Leak Detection	1	1
WE Credit	Enhanced Water Efficiency	8	7
MR Prereq	Planning for Zero Waste Operations	Required	Required
MR Credit	Building and Materials Reuse	3	5
MR Credit	Building Product Selection and Procurement	5	5
MR Credit	Construction and Demolition Waste Diversion	2	2
EQ Prereq	No Smoking or Vehicle Idling	Required	Required