

LEED v4 for Interior Design & Construction

Summary of changes from LEED 2009

Credit – Integrative Process		<ul style="list-style-type: none"> • New credit. • Encourages early analysis of energy, site, and water systems to inform design.
LOCATION AND TRANSPORTATION		
Credit	LEED for Neighborhood Development Location	<ul style="list-style-type: none"> • New credit. • Encourages selection of a LEED ND certified site. • Gives project teams a streamlined path to earn LT points.
Credit	Surrounding Density and Diverse Uses	<ul style="list-style-type: none"> • Credit title renamed from “Development Density and Community Connectivity”. • Multiple thresholds to reward different density levels and amounts of diverse uses. • Projects earn points in the density and the diverse uses options separately.
Credit	Access to Quality Transit	<ul style="list-style-type: none"> • Credit title renamed from “Alternative Transportation—Public Transportation Access”. • Multiple thresholds to reward varying transit service levels.
Credit	Bicycle Facilities	<ul style="list-style-type: none"> • Credit title renamed from “Alternative Transportation—Bicycle Storage and Changing Rooms” • Added a requirement to be located at a bicycle-accessible site or bicycle network.
Credit	Reduced Parking Footprint	<ul style="list-style-type: none"> • Credit title renamed from “Alternative Transportation-Parking Capacity”. • Minimum parking requirements reference levels in the <i>ITE Transportation Planning Handbook</i>. • Option for No New parking removed
Credit	Alternative Transportation (Retail CI)	<ul style="list-style-type: none"> • Credit requirements moved to other LT credits.
WATER EFFICIENCY		
Prerequisite	Indoor Water Use Reduction	<ul style="list-style-type: none"> • Credit title renamed from “Water Use Reduction”. • WaterSense label required for certain fixtures and fittings • Appliance and process water uses addressed. • Basic cooling tower requirements from ASHRAE 189 added. • Additional appliance and process water requirements for Retail and Hospitality only.
Credit	Indoor Water Use Reduction	<ul style="list-style-type: none"> • Credit title renamed from “Water Use Reduction”. • WaterSense label required for certain fixtures and fittings. • Added Appliance and Process Water requirements. • Added more thresholds for achievement.
ENERGY AND ATMOSPHERE		
Prerequisite	Fundamental Commissioning and Verification	<ul style="list-style-type: none"> • Credit title renamed from “Fundamental Commissioning of Building Energy Systems”. • Modified intent to ensure project meets the owner’s projects requirements related to energy, water, indoor environmental quality and durability. • Added requirement for preparing an Operations and Maintenance Plan.

		<ul style="list-style-type: none"> Added requirement to engage a Commissioning Authority by the end of the design development phase. Clarified language for who can be the commissioning authority.
Prerequisite	Minimum Energy Performance	<ul style="list-style-type: none"> Updated referenced standard to ASHRAE 90.1-2010. Added retail-specific process load requirements Aligned modeling path with BD&C Include new prescriptive option
Prerequisite	Fundamental Refrigerant Management	<ul style="list-style-type: none"> No substantive changes.
Credit	Enhanced Commissioning	<ul style="list-style-type: none"> Added options for monitoring based commissioning and envelope commissioning if included in scope of project. Added requirements to prepare the building operators for the intended operation of building systems Clarified language for who can be the commissioning authority.
Credit	Optimize Energy Performance	<ul style="list-style-type: none"> Updated referenced standard to ASHRAE 90.1-2010. Added requirements for data centers. Added retail-specific process load requirements Added prescriptive compliance path addressing 50% Advanced Energy Design Guides. Aligned modeling path to BD&C
Credit	Advanced Energy Metering	<ul style="list-style-type: none"> New credit Includes option for installing building-level energy meter and advanced energy meters for all energy end-uses that represent 10% or more of the total energy consumption
Credit	Renewable Energy Production	<ul style="list-style-type: none"> Credit title renamed from “On-Site Renewable Energy”. Added provision for community-scale renewable energy systems. Points adjusted significantly.
Credit	Enhanced Refrigerant Management	<ul style="list-style-type: none"> Added retail-specific requirements.
Credit	Green Power and Carbon Offsets	<ul style="list-style-type: none"> Credit title renamed from “Green Power”. Credit based on total energy usage. Carbon offsets allowed for scope 1 or 2 emissions Required contract length extended from 2 years to 5 years. Eligible resources must have come online after January 1, 2005.
MATERIALS AND RESOURCES		
Prerequisite	Storage and Collection of Recyclables	<ul style="list-style-type: none"> Added requirement to address batteries, mercury containing lamps, or electronic waste. Added retail requirement to identify top 4 waste streams to provide recycling collection and storage.
Prerequisite	Construction and Demolition Waste Management Planning	<ul style="list-style-type: none"> New prerequisite. Requires setting a project target for waste management. Requires reporting waste diversion rates.
Credit	Tenant Space – Long Term Commitment	<ul style="list-style-type: none"> No substantive changes.
Credit	Building Reuse– Maintain Interior Nonstructural Elements	<ul style="list-style-type: none"> Credit requirements moved to “Interiors Life Cycle Impact Reduction” credit.
Credit	Interiors Life Cycle Impact Reduction	<ul style="list-style-type: none"> Credit is a combination of “Materials Reuse” and “Materials Reuse – Furniture and Furnishings” Encourages reuse of materials Added option for Design for Flexibility.
Credit	Building Product Disclosure and	<ul style="list-style-type: none"> New credit. Addresses transparency in environmental life-cycle impacts and

	Optimization— Environmental Product Declarations	<ul style="list-style-type: none"> selecting products with improved life-cycles. Structured into disclosure and optimization options. Rewards the use of products with Environmental Product Declarations. Rewards products that meet the local products criteria.
Credit	Materials Reuse	<ul style="list-style-type: none"> Credit requirements moved to “Interiors Life Cycle Impact Reduction”.
Credit	Materials Reuse – Furniture and Furnishings	<ul style="list-style-type: none"> Credit requirements moved to “Interiors Life Cycle Impact Reduction”.
Credit	Recycled Content	<ul style="list-style-type: none"> Credit requirements moved to “Building Product Disclosure and Optimization—Sourcing of Raw Materials.”
Credit	Regional Materials	<ul style="list-style-type: none"> Credit requirements moved to the “Building Product Disclosure and Optimization” credits.
Credit	Rapidly Renewable Materials	<ul style="list-style-type: none"> Credit removed. Rapidly renewable materials addressed by “Building Product Disclosure and Optimization—Sourcing of Raw Materials”
Credit	Certified Wood	<ul style="list-style-type: none"> Credit requirements moved to “Building Product Disclosure and Optimization—Sourcing of Raw Materials”.
Credit	Building Product Disclosure and Optimization—Sourcing of Raw Materials	<ul style="list-style-type: none"> New credit. Addresses transparency in raw material sourcing and selecting materials that have been appropriately sourced. Restructured into disclosure and optimization sections. Rewards products from manufacturers that have provided information on land use practices, extraction locations, labor practices, etc. Rewards products that meet the local products criteria.
Credit	Building Product Disclosure and Optimization—Material Ingredient Reporting	<ul style="list-style-type: none"> New credit. Addresses transparency in material ingredients and selecting products with optimized ingredients. Structured into disclosure and optimization options. Rewards the use of products with ingredient reporting in programs like Health Product Declaration, Cradle 2 Cradle, and others. Rewards products that meet the local products criteria. Third option for supply chain optimization.
Credit	Construction and Demolition Waste Management	<ul style="list-style-type: none"> Added an option for waste reduction strategy. Requires waste diversion from multiple material types. Alternative daily cover no longer counted as diverted waste.
INDOOR ENVIRONMENTAL QUALITY		
Prerequisite	Minimum Indoor Air Quality Performance	<ul style="list-style-type: none"> Added requirements for outside air delivery monitoring
Prerequisite	Environmental Tobacco Smoke Control	<ul style="list-style-type: none"> Removed allowance for designated smoking areas inside the building for all projects but residential. Reduced the maximum allowable leakage rate for compartmentalized residential units.
Credit	Outdoor Air Delivery Monitoring	<ul style="list-style-type: none"> Credit requirements moved to “Minimum Indoor Air Quality Performance” and “Enhanced Indoor Air Quality Strategies” credits.
Credit	Increased Ventilation	<ul style="list-style-type: none"> Credit requirements moved to “Enhanced Indoor Air Quality Strategies” credit.
Credit	Enhanced Indoor Air Quality Strategies	<ul style="list-style-type: none"> Credit is a combination of “Outdoor Air Delivery Monitoring”, “Increased Ventilation”, and “Indoor Chemical and Pollutant Source Control” credits.

		<ul style="list-style-type: none"> • Added additional options for mathematical modeling, additional sensors, and mixed mode systems.
Credit	Low-Emitting Interiors	<ul style="list-style-type: none"> • Credit is a combination of the “Low-Emitting Materials” credits. • Requirements based on VOC emissions rather than VOC content. • Systems approach to emissions within a space. • Added requirement for TVOC disclosure. • Modified requirements for formaldehyde.
Credit	Construction Indoor Air Quality Management Plan	<ul style="list-style-type: none"> • Credit title renamed from “Construction Indoor Air Quality Management Plan—During Construction”. • No substantive changes.
Credit	Indoor Air Quality Assessment	<ul style="list-style-type: none"> • Credit title renamed from “Construction Indoor Air Quality Management Plan—Before Occupancy”. • Added a maximum temperature limit for flush outs. • Expanded the list of contaminants for which to test under Option 2. • Clarified that furniture must be installed.
Credit	Indoor Chemical and Pollutant Source Control	<ul style="list-style-type: none"> • Credit requirements moved to “Enhanced Indoor Air Quality Strategies” credit.
Credit	Controllability of Systems—Lighting	<ul style="list-style-type: none"> • Credit requirements moved to “Interior Lighting” credit.
Credit	Thermal Comfort	<ul style="list-style-type: none"> • Credit title renamed from “Thermal Comfort—Design”. • Updated reference standard to ASHRAE 55-2010.
Credit	Interior Lighting	<ul style="list-style-type: none"> • New Credit. • Incorporates controls requirements from “Controllability of Systems—Lighting” credit. • Added an option that addresses lighting quality.
Credit	Daylight	<ul style="list-style-type: none"> • Credit title renamed from “Daylight and Views—Daylight”. • Removed prescriptive option. • Added option for spatial daylight autonomy. • Changed units from footcandles to lux. • Added a timing requirement to measurement option.
Credit	Quality Views	<ul style="list-style-type: none"> • Credit title renamed from “Daylight and Views—Views”. • Added requirement for quality view, defined by the LEED 2009 exemplary performance criteria. • Added provisions for interior atria.
Credit	Acoustic Performance	<ul style="list-style-type: none"> • New credit. • Added requirements for room noise levels, speech privacy and sound isolation, reverberation time, and paging, masking, and sound reinforcement systems. • Harmonized ANSI and ASHRAE standards.