

# LEED Credits For HLR<sup>®</sup> Technology

Achieving LEED Points in New Construction and Existing Buildings



## Introduction

Leadership in Energy & Environmental Design, or LEED, is the U.S. Green Building Council's (USGBC) globally recognized "green" building certification program that provides a framework to develop healthy, efficient, and sustainable buildings. Implementing enVerid's HVAC Load Reduction<sup>®</sup> (HLR<sup>®</sup>) solution can help buildings earn LEED points in the Energy & Atmosphere (EA), Indoor Environmental Quality (EQ), and Innovation (IN) credit areas.

New constructions can incorporate HLR technology into HVAC designs to earn up to 12 LEED points, while existing buildings can implement HLR technology as a retrofit HVAC design to earn up to 17 LEED points. These points are now possible because of new pilot credits available from USGBC. Pilot Credits test new LEED ideas by introducing credits to the rating system, allowing projects to examine innovative solutions that haven't been through drafting and balloting.

HLR technology improves indoor air quality (IAQ) by cleaning and recycling indoor air, thereby reducing outside air requirements and heating and cooling energy consumption. Thus, HLR modules earn LEED points for both air quality and energy savings.



## Achieving up to 12 LEED Points for New Construction

### Indoor Air Quality

The USGBC has developed the LEED BD+C *Performance-based indoor air quality design and assessment* pilot credit (EQpc124) as an alternative compliance path to earn 6 LEED points in EQ and IN credit categories while meeting the *Minimum IAQ performance* prerequisite, which ensures contaminants of concern remain below their threshold limits for calculated ventilation rates and HLR modules.



LEED BD+C: New Construction | Schools | Retail | Hospitality

BD+C Pilot Credit	Requirements	Points	Awarded Credit	
EQpc124 Performance-based indoor air quality design and assessment	Tier 1. Contaminant based IAQ design	1	Enhanced indoor air quality strategies	
	Tier 2. IAQ baseline evaluation	Path a. LEED-specific contaminant list	2	Indoor air assessment Innovation
		Path b. Project specific contaminant list	1	Enhanced indoor air quality strategies
	Tier 3. Demonstrate IAQ performance	3	Indoor air assessment Construction IAQ management Low-emitting materials	
	Achieve Tier 1, 2, Path a, AND 3	Prereq	Minimum IAQ performance	

### Energy Savings

[www.usgbc.org/node/11656219?return=/pilotcredits/New-Construction/v4](http://www.usgbc.org/node/11656219?return=/pilotcredits/New-Construction/v4)

HLR modules can earn up to an additional 6 points (non-pilot) for new construction through energy simulations and referencing the design guide in the Energy & Atmosphere credit area.

BD+C Credit	Requirements	Points	Awarded Credit
EA	Demonstrate increased energy efficiency	up to 6	Optimize Energy Performance

## LEED BD+C: Core and Shell

BD+C Pilot Credit: CS	Requirements		Points	Awarded Credit
EQpc124 Performance-based indoor air quality design and assessment	Tier 1. Contaminant based IAQ design		1	Enhanced indoor air quality strategies
	Tier 2. IAQ baseline evaluation	Path a. LEED-specific contaminant list	2	Enhanced indoor air quality strategies Innovation
		Path b. Project specific contaminant list	1	Enhanced indoor air quality strategies
	Tier 3. Demonstrate IAQ performance		3	Innovation Construction IAQ management Low-emitting materials
	Achieve Tier 1, 2, Path a, AND 3		Prereq	Minimum IAQ performance

\*Note: EA Credits are not available for C&S Projects

## Achieving up to 17 LEED Points for Existing Buildings

### Indoor Air Quality

The USGBC has developed the LEED O+M *Performance based indoor air assessment* pilot credit (EQpc119) as an alternative compliance path to earn 9 LEED points in EQ and IN credit categories. Additionally, the minimum IAQ prerequisite for EQ can be attained through the O+M *Indoor Air Quality Procedure* pilot credit (EQpc68), which ensures contaminants of concern remain below their threshold limits for calculated ventilation rates and HLR modules.



O+M Pilot Credit	Tier	Points	Awarded Credit
EQpc68	IAQ Procedure	Prereq	Minimum indoor air quality performance
EQpc119	Baseline IAQ Evaluation	2	Indoor air quality management program
		2	Enhanced indoor air quality strategies
		1	Green cleaning products & materials
	1	Innovation	
	Ongoing IAQ Performance	3	Innovation

[www.usgbc.org/node/4810544?return=/pilotcredits/Existing-Buildings/v4](http://www.usgbc.org/node/4810544?return=/pilotcredits/Existing-Buildings/v4)

### Energy Savings

Using HLR technology, the amount of outside air intake is reduced leading to energy savings, enabling up to an additional 8 points (non-pilot) for existing buildings in the Energy & Atmosphere credit area.

O+M Credit	Requirements	Points	Awarded Credit
EA	Demonstrate increased energy efficiency	up to 6	Optimize Energy Performance
	Participate in Demand Response Program	2	Demand Response



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enVerid is committed to improving energy efficiency and indoor air quality in buildings worldwide through its innovative, award-winning HVAC Load Reduction® (HLR®) solutions. HLR technology enables immediate capital cost savings on new HVAC systems and provides up to 40% energy savings and superior indoor air quality. Deployed in nearly 10 million ft<sup>2</sup> of commercial, academic, and government buildings, enVerid's HLR technology is ASHRAE-compliant, LEED-compliant, and eligible for utility rebates. For more information, please visit [www.enverid.com](http://www.enverid.com).

