

LEED



BD+C Homes



LEED

Leadership in Environmental and Energy Design (LEED)

- ✓ The most widely used green building rating system in the world
- ✓ Addresses all current topics:
 - Energy conservation
 - Water conservation and efficiency
 - Carbon dioxide (CO₂) emission reduction
 - Indoor air quality improvement
 - Resource Management and awareness of their impacts
- ✓ Provides third-party certification (GBCI) that a building or community was designed and built using strategies aimed at improving its performance

LEED RATING SYSTEMS

- Building Design and Construction (BD+C)
- Interior Design and Construction (ID+C)
- Operations and Maintenance (O+M)
- Neighborhood Development (ND)
- Cities and Communities

LEED Certification

- ✓ 3 Minimum Program Requirements (MPRs), that must be met for any project to be eligible for LEED certification
- ✓ Number of Credit Categories: 9 for LEED BD+C & O+M, 8 for LEED ID+C, 4 for LEED ND
- ✓ Each Category includes Prerequisites Credits
- ✓ In order for a property to be certified, it must meet ALL the Prerequisites
- ✓ Each Credit gives specific points, the standard in total gives 110 points
- ✓ The certification level of the building is determined based on the total number of points earned according to the table below:
 - Certified min 40 points
 - Silver min 50 points
 - Gold min 60 points
 - Platinum min 80 points



LEED CREDIT CATEGORIES¹

Integrative Process (IP)²

Location and Transportation (LT)

Sustainable Sites (SS)³

Water Efficiency (WE)

Energy & Atmosphere (EA)

Materials and Resources (MR)

Indoor Environmental Quality (IEQ)

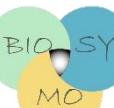
Innovation (IN)

Regional Priority (RP)

1. LEED ND & Cities and Communities are excluded

2. Not applicable to LEED O+M

3. Not applicable to LEED ID+C



LEED BD+C: Commercial

(Building Design and Construction)

Applicable to the design & construction phase of a new building or a building's major renovation.

- ✓ Available for virtually all building types, with minor adjustments to the type of use. These are:

- New Construction/ Major Renovation (includes all building types that do not fall into the following subcategories)
- Core & Shell – refers to buildings that are less than 60% complete
- Retail
- Schools
- Healthcare
- Hospitality
- Warehouses & Distribution Centers
- Data Centers

LEED BD+C: Homes

(Building Design and Construction)

Designed for residential buildings, it concerns the design and construction phase of a new building or a building's major renovation phase.

- ✓ It is divided into:

- Homes and Multifamily Lowrise
- Multifamily Midrise up to 8 floors
- Multifamily buildings of more floors are included in BD+C: New Construction

LEED ND

(Neighborhood Development)

Applicable to the development of a new or existing sustainable neighborhood, that includes residential or non-residential buildings or both.

- ✓ It is subdivided into:



- Design – concerns projects from schematic design to their construction
- Existing projects

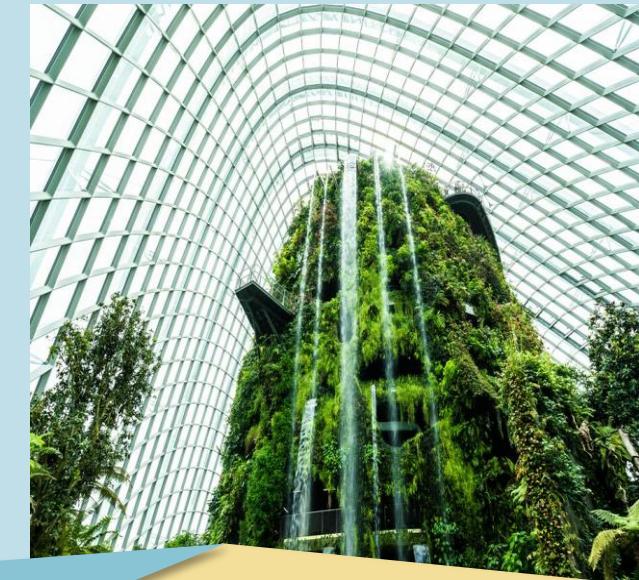
LEED ID+C

(Interior Design and Construction)

Applicable to the renovation and development of interior spaces .

- ✓ Certification according to building type such as:

- Commercial Interiors (includes all building types that do not fall into the following subcategories)
- Hospitality
- Retail



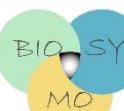
LEED O+M

(Operations and Maintenance)

Focuses on the sustainable operation and maintenance of existing buildings.

- ✓ Applies to:

- Existing buildings (includes all building types that do not fall into the following subcategories)
- Retail
- Warehouses & Distribution Centers
- Hospitality
- Data Centers
- Healthcare
- Schools



Involved Roles in Certification

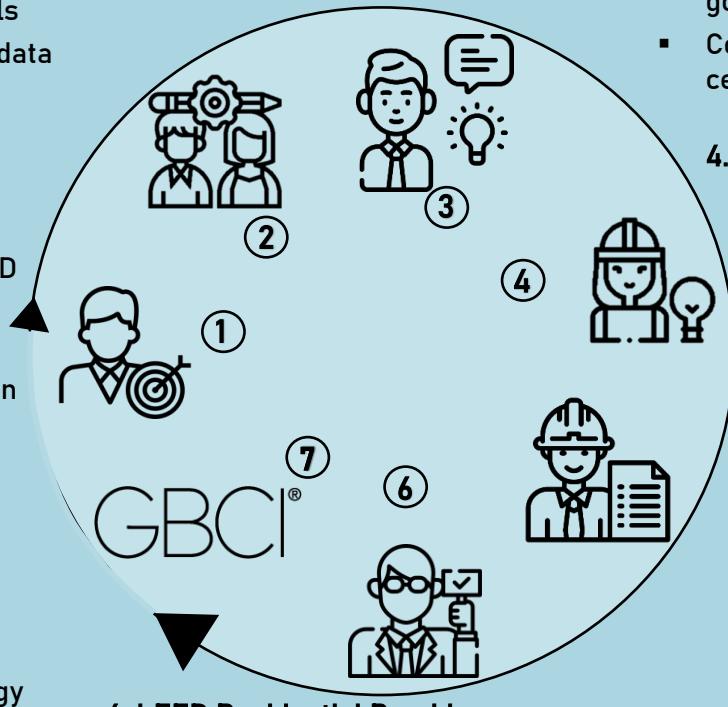
LEED BD+C Homes

2. Design & Construction Team

- Designs and constructs the project
- Co-defines LEED goals
- Collects certification data

1. Project Owner/ Project Manager

- Appoints the rest of the roles
- Decides the level of LEED certification
- Co-defines LEED goals
- Coordinates communication among parties



7. Green Business Certification Inc.

- Third party certification body
- Certifies the roles of Energy Rater, Green Rater, LEED Residential Provider
- Certifies the project

3. LEED Consultant (ideally LEED AP Homes)

- Leads the team and defines LEED certification goals
- Collects and evaluates the required supporting certification documents

4. Energy Rater

- Conducts construction inspections examining the energy part of the certification
- Provides guidance for any corrective actions

5. Green Rater

- Checks the file of certification documents
- Conducts on-site inspections during the project
- Collaborates directly with LEED Residential Provider

6. LEED Residential Provider

- Provides technical information and guidance to the Green Rater regarding LEED Homes certification.
- Collaborates with the Green Rater to ensure the quality of the certification and the submittal of the file to GBCI

Steps towards LEED BD+C: Homes Certification

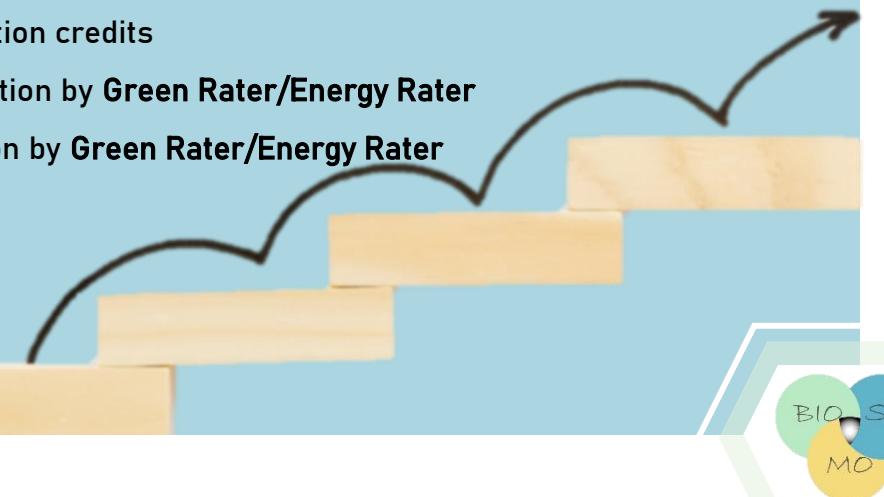
Residential buildings require the roles of Green Rater, Energy Rater & LEED Residential Provider for their certification.

Certification Steps

- ✓ Project definition
- ✓ Collection of project information
- ✓ Team Formation Including Sustainability Consultant (LEED AP)
- ✓ LEED Green Rater/Energy Rater Appointment
- ✓ Goal-Setting Workshop (LEED Charrette)
- ✓ Task Assignment (LEED Action Plan)
- ✓ Project Registration within LEED Platform
- ✓ Design and integration of LEED requirements on plans and project documents, a process that is performed in tandem with the design phase of the project
 - Regular meetings of the LEED Consultant with the Designers to provide guidance and keep track of the process
- ✓ Construction and reassurance of LEED prerequisites and construction credits
 - Interim verification of the documentation during the construction by **Green Rater/Energy Rater**
 - Final verification of the documentation during the construction by **Green Rater/Energy Rater**
- ✓ Project submission for certification



Our company provides the required expertise and experience at the certification process, with trained personnel certified as LEED Green Rater & LEED AP Homes.



LEED Homes & Multifamily Lowrise

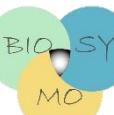
Credits Overview

v.4 LEED BD+C: Homes and Multifamily Lowrise

9 credit categories, 17 prerequisites, 31 credits

Credit Category	Prerequisites	Credits	Points
Integrative Process (IP)	0	1	2
Location and Transportation (LT)	1	4	15
Sustainable Sites (SS)	2	3	7
Water Efficiency (WE)	1	1	12
Energy & Atmosphere (EA)	3	5	38
Materials and Resources (MR)	2	4	10
Indoor Environmental Quality (IEQ)	7	7	16
Innovation (IN)	1	2	6
Regional Priority (RP)	0	4	4
Total	17	31	110

For more information and support regarding LEED BD+C Homes & Multifamily Lowrise certification, contact our team of experts!



LEED Multifamily Midrise

Credits Overview

v.4 LEED BD+C: Multifamily Midrise

9 credit categories, 17 prerequisites, 29 credits

Credit Category	Prerequisites	Credits	Points
Integrative Process (IP)	0	1	2
Location and Transportation (LT)	1	4	15
Sustainable Sites (SS)	2	3	7
Water Efficiency (WE)	1	1	12
Energy & Atmosphere (EA)	3	3	37
Materials and Resources (MR)	2	3	9
Indoor Environmental Quality (IEQ)	7	8	18
Innovation (IN)	1	2	6
Regional Priority (RP)	0	4	4
Total	17	29	110

For more information and support regarding LEED BD+C Multifamily Midrise certification, contact our team of experts!