



POLIURETANO 4.0

10 ottobre 2019
Centro Congressi
NH Collection Vittorio Veneto
Corso d'Italia 1
Roma

www.conferenzapoliuretano.it

Il Green Building Council Italia e
i sistemi di Certificazione
Energetico-Ambientale LEED/GBC

Introduzione ed alcuni progetti significativi

A cura di:

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Segretario del Chapter Lazio del GBC Italia



GBC Italia è un'associazione no profit con la mission di **guidare l'intera filiera dell'edilizia** nella trasformazione sostenibile del costruito per uno **spazio abitato più salubre, sicuro, confortevole ed efficiente.**



Green Building Council ITALIA – www.gbcitalia.org

Promuove rating system che valutano la sostenibilità ambientale degli edifici
Sviluppa nuovi rating system (es **GBC HB**, **GBC Condomini**)

Certificazione



Coordina gruppi di lavoro e ricerca su temi innovativi in linea con le trasformazioni globali

- ***Economia Circolare***
- ***LCA***
- ***CAM in edilizia***

Sviluppo e ricerca



Formazione

Organizza corsi di formazione per i professionisti, le aziende e gli operatori del mercato



Advocacy

Partecipa a tavoli di sviluppo strategico e di normazione dell'edilizia sostenibile

Attiva accordi ed attività con Enti Pubblici e Associazioni

ENEA , varie Regioni e Comuni , ASVIS, Consiglio Nazionale Green Economy



Promuove la sostenibilità ambientale attraverso una rete di contatti qualificati

Comunicazione



Eventi

Organizza eventi e partecipa a manifestazioni rivolti a esperti di settore, coinvolgendo i principali stakeholder istituzionali pubblici e privati





LEED NC

Ristrutturazione o realizzazione di nuovi edifici ad uso istituzionale e commerciale (uffici, negozi e attività di servizio)

PER LE SCUOLE

Edifici scolastici (scuola primaria e secondaria superiore)



GBC HOME

Edifici residenziali, singole unità familiari, case a schiera, piccoli condomini.



GBC CONDOMINI

Edifici multifamily esistenti (In fase di sviluppo)



GBC QUARTIERI

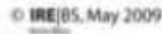
Riqualificazione urbana, trasporto multimodale efficiente, conservazione di aree verdi, accessibilità ai servizi



GBC HISTORIC BUILDING

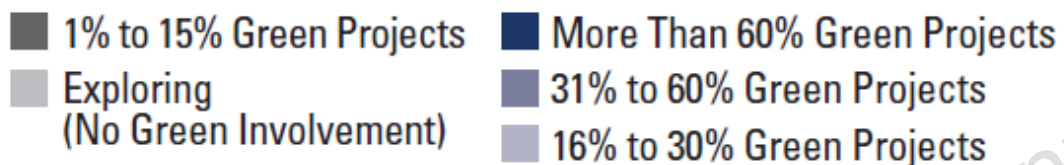
Restauro e riqualificazione sostenibile degli edifici storici





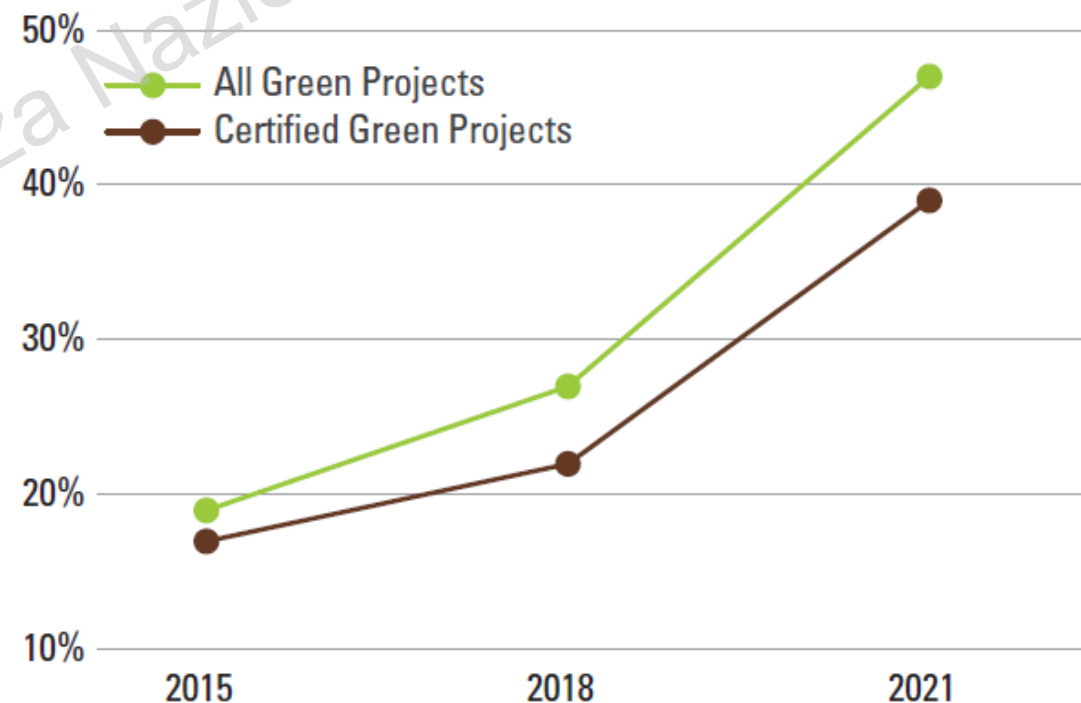
Level of Green Building Activity (According to Global Respondents)

Dodge Data & Analytics, 2018



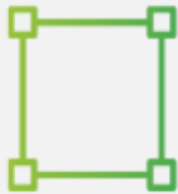
Respondents Selecting Over 60% Green Projects Versus Those Selecting Over 60% Certified Green Projects (By Year)

Dodge Data & Analytics, 2018



Leadership in Energy and Environmental Design

LEED, or Leadership in Energy and Environmental Design, is the most widely used green building rating system in the world. Available for virtually all building, community and home project types, LEED provides a framework to create healthy, highly efficient and cost-saving green buildings. LEED certification is a globally recognized symbol of sustainability achievement.



2.2 million +

square feet is LEED certified every day with more than 90,000 projects using LEED.



Flexible

LEED works for all building types anywhere. LEED is in 165 countries and territories.



Sustainable

LEED buildings save energy, water, resources, generate less waste and support human health.



Value

LEED buildings attract tenants, cost less to operate and boost employee productivity and retention.

Introduction to LEED

LEED, or Leadership in Energy & Environmental Design, is a green building certification program that recognizes best-in-class building strategies and practices.

To receive LEED certification, building projects satisfy prerequisites and earn points to achieve different levels of certification. Prerequisites and credits differ for each rating system, and teams choose the best fit for their project.

5 Rating systems

BD+C

**BUILDING DESIGN
+ CONSTRUCTION**
New Construction
Core & Shell
Schools
Retail
Healthcare
Data Centres
Hospitality
Warehouses & Distribution

ID+C

**INTERIOR DESIGN
+ CONSTRUCTION**
Commercial Interiors
Retail
Hospitality

O+M

**OPERATION
+ MAINTENANCE**
Existing Buildings
Data Centres
Warehouses & Distribution
Hospitality
Schools
Retail

ND

**NEIGHBOURHOOD
DEVELOPMENT**
New land development
Land Redevelopment
Residential
Mixed Use
Commercial
Industrial

HOMES

**HOUSES
+ UNITS**
Single Homes
Low Rise Multi Unit
Mid Rise Multi Unit

Credit Categories

Each rating system is made up of a combination of credit categories.

Within each of the credit categories, there are specific prerequisites projects must satisfy and a variety of credits projects can pursue to earn points. The number of points the project earns determines its level of LEED certification.



INTEGRATIVE PROCESS
Encouraging cross discipline collaboration



LOCATION & TRANSPORTATION
Access to variety of transport and/or credit for constrained sites



MATERIALS & RESOURCES
Using sustainable materials & reducing waste



WATER EFFICIENCY
Smart use and reuse of water



ENERGY & ATMOSPHERE
Energy Performance



SUSTAINABLE SITES
Minimising impact on ecosystems & water resources



INDOOR ENVIRONMENT
Indoor air quality & access to natural light & views



INNOVATION

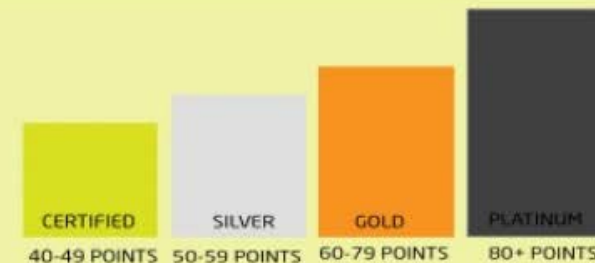


REGIONAL PRIORITY
Geographic environmental priorities



LEED is administered by the US Green Building Council. For information on the scheme go to www.usgbc.com

The Ratings



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

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

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

0	0	0	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
			Credit Enhanced Commissioning	6
			Credit Optimize Energy Performance	18
			Credit Advanced Energy Metering	1
			Credit Demand Response	2
			Credit Renewable Energy Production	3
			Credit Enhanced Refrigerant Management	1
			Credit Green Power and Carbon Offsets	2

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

0	0	0	Indoor Environmental Quality	16
Y			Prereq Minimum Indoor Air Quality Performance	Required
Y			Prereq Environmental Tobacco Smoke Control	Required
			Credit Enhanced Indoor Air Quality Strategies	2
			Credit Low-Emitting Materials	3
			Credit Construction Indoor Air Quality Management Plan	1
			Credit Indoor Air Quality Assessment	2
			Credit Thermal Comfort	1
			Credit Interior Lighting	2
			Credit Daylight	3
			Credit Quality Views	1
			Credit Acoustic Performance	1

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

0	0	0	Regional Priority	4
			Credit Regional Priority: Specific Credit	1
			Credit Regional Priority: Specific Credit	1
			Credit Regional Priority: Specific Credit	1
			Credit Regional Priority: Specific Credit	1

0	0	0	TOTALS	Possible Points: 110
Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110				

CERTIFIED LEED PROJECTS TOP 20 CITIES EUROPE

Leading cities in the
European market for
LEED Certified
projects by count.

‡ Top 20 City Rank
Data: April 2019



NUMBER OF CERTIFIED PROJECTS

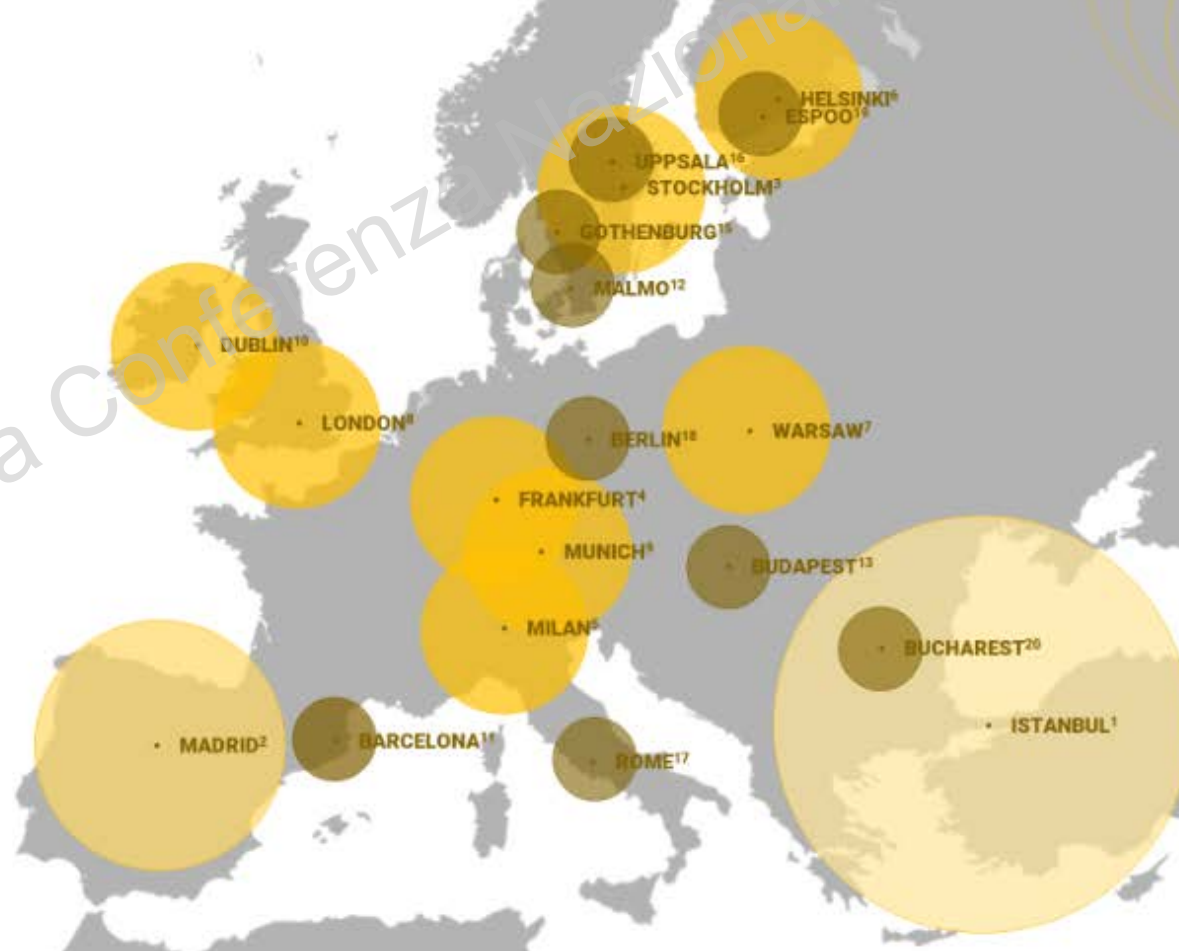
200-250

151-200

101-150

51-100

0-50



Il poliuretano in cantieri LEED



Sede BNL BNP PARIBAS
Roma Tiburtina
Pannelli per isolamento pareti

Il poliuretano in cantieri LEED



Torre HADID
Milano Citylife
Canali preisolati per il trasporto dell'aria

Il poliuretano in cantieri LEED



Sede AXA
Roma
Pannelli per isolamento pareti

Il poliuretano in cantieri LEED



Campus dell'Università degli Studi di Salerno - Residenze universitarie Fisciano (SA)
Isolamento di facciate ventilate



Il poliuretano in cantieri LEED



Asilo Nido BabyLife
Milano CityLife
Isolamento di coperture

Il poliuretano in cantieri LEED



Palazzo Italia
Roma
Isolamento di coperture

Il poliuretano in cantieri LEED



Torre Intesa San Paolo

Torino

Canali preisolati per il trasporto dell'aria

Il poliuretano in cantieri LEED



Edificio per uffici
Roma
Isolamento di coperture

