

Charting a Course to Energy Independence

Providence, RI
August 9-12, 2009





LEED Version 3

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U.S. Green Building Council



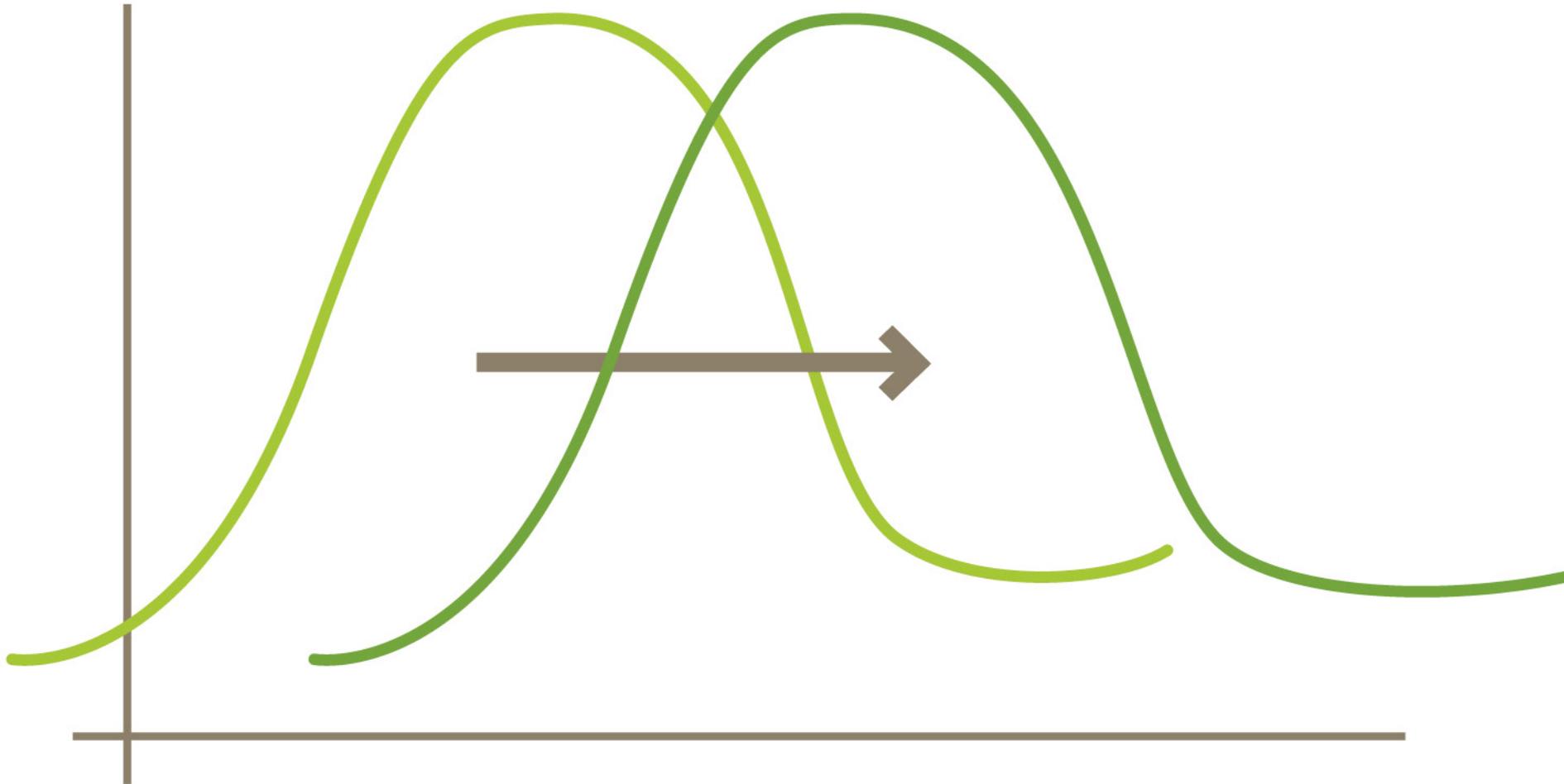
V3

**EVOLVING TO HELP YOU
GROW GREENER**

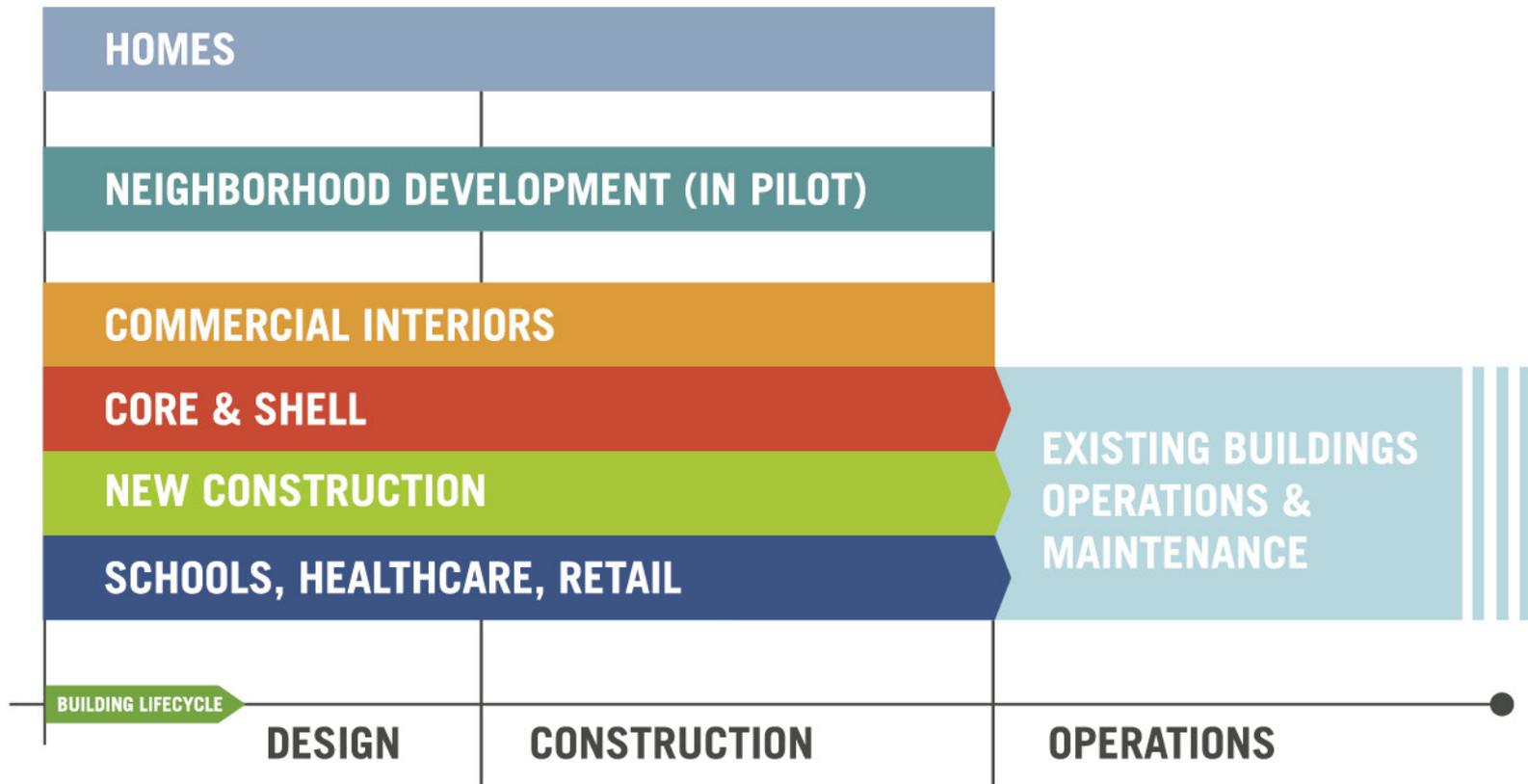
CREATIVE TENSION



LEED 2009...SHIFTING FORWARD



LEED ADDRESSES THE COMPLETE LIFECYCLE OF BUILDINGS



What is a Green Building?



LEED 2009

ADVANCEMENTS TO THE RATING SYSTEM

LEED ONLINE

FASTER, SMARTER & A BETTER USER EXPERIENCE

+

CERTIFICATION

SPEED, CAPACITY, PERFORMANCE

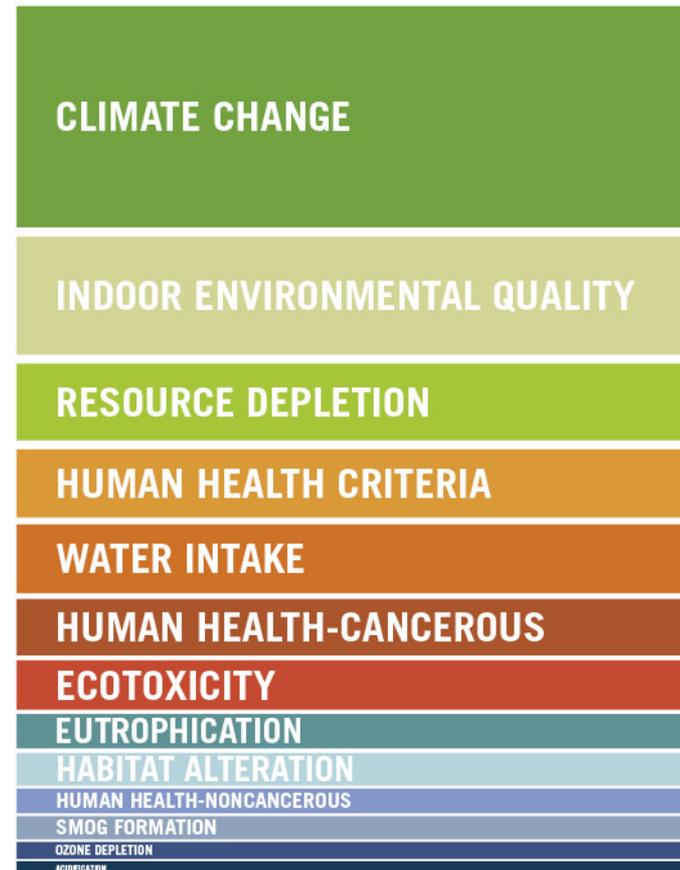
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LEED V3

**THE RATING SYSTEM LOOKS
VERY FAMILIAR,**

**BUT THE WAY YOU USE IT
HAS CHANGED.**

IMPACT CATEGORIES



Sustainable Sites (SS)

Yes ? No

0 0 0

Sustainable Sites

12 Points

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1	LEED Certified Design and Construction	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 2	Building Exterior and Hardscape Management Plan	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 3	Integrated Pest Management, Erosion Control, and Landscape Management Plan	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 4	Alternative Commuting Transportation	4
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.1	10%	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.2	25%	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.3	50%	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.4	75% or greater	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 5	Reduced Site Disturbance - Protect or Restore Open Space	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 6	Stormwater Management	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 7	Heat Island Reduction	2
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.1	Non-Roof	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.2	Roof	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 8	Light Pollution Reduction	1

Yes ? No

0 0 0

Water Efficiency

10 Points

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prereq 1	Minimum Indoor Plumbing Fixture and Fitting Efficiency	Required
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1	Water Performance Measurement	2
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.1	Whole building metering	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.2	Submetering	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 2	Additional Indoor Plumbing Fixture and Fitting Efficiency	3
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.1	10%	1

Water Efficiency (WE)

Yes ? No

0 0 0

Water Efficiency

10 Points

Y

Prereq 1 **Minimum Indoor Plumbing Fixture and Fitting Efficiency** Required

Credit 1 **Water Performance Measurement** 2

1.1 Whole building metering 1

1.2 Submetering 1

Credit 2 **Additional Indoor Plumbing Fixture and Fitting Efficiency** 3

2.1 10% 1

2.2 20% 1

2.3 30% 1

Credit 3 **Water Efficient Landscaping** 3

3.1 Reduce Potable Water Use by 50% 1

3.2 Reduce Potable Water Use by 75% 1

3.3 Reduce Potable Water Use by 100% 1

Credit 4 **Cooling Tower Water Management** 2

4.1 Chemical Management 1

4.2 Non-Potable Water Source Use 1

Yes ? No

0 0 0

Energy & Atmosphere

30 Points

Y

Prereq 1 **Energy Efficiency Best Management Practices - Planning, Documentation, and Opportunity Assessment** Required

Y

Prereq 2 **Minimum Energy Efficiency Performance** Required

Y

Prereq 3 **Refrigerant Management - Ozone Protection** Required

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Credit 1 **Optimize Energy Efficiency Performance** 15

Energy & Atmosphere (EA)

Yes ? No

0 0 0

Energy & Atmosphere

30 Points

Y	Prereq 1	Energy Efficiency Best Management Practices - Planning, Documentation, and Opportunity Assessment	Required
Y	Prereq 2	Minimum Energy Efficiency Performance	Required
Y	Prereq 3	Refrigerant Management - Ozone Protection	Required
	Credit 1	Optimize Energy Efficiency Performance	15
	Credit 2	Existing Building Commissioning	6
	2.1	Investigation and Analysis	2
	2.2	Implementation	2
	2.3	Ongoing Commissioning	2
	Credit 3	Performance Measurement	3
	3.1	Building Automation System	1
	3.2	System-Level Metering, 40%	1
	3.3	System-Level Metering, 80%	1
	Credit 4	Renewable Energy	4
	4.1	On-site 3% / Off-site 25%	1
	4.2	On-site 6% / Off-site 50%	1
	4.3	On-site 9% / Off-site 75%	1
	4.4	On-site 12% / Off-site 100%	1
	Credit 5	Refrigerant Management	1
	Credit 6	Emissions Reduction Reporting	1

Yes ? No

0 0 0

Materials & Resources

14 Points

Materials & Resources (MR)

Yes ? No

0 0 0

Materials & Resources

14 Points

Y

Prereq 1 **Sustainable Purchasing Policy**

Required

Y

Prereq 2 **Solid Waste Management Policy**

Required

Credit 1 **Sustainable Purchasing**

3

1.1 Ongoing Consumables, 40%

1

1.2 Ongoing Consumables, 60%

1

1.3 Ongoing Consumables, 80%

1

Credit 2 **Sustainable Purchasing**

2

2.1 Durable Goods, electric

1

2.2 Durable Goods, furniture

1

Credit 3 **Sustainable Purchasing - Facility Alterations and Additions**

1

Credit 4 **Sustainable Purchasing**

2

4.1 Reduced Mercury in Lamps, 90 pg/lum-hr

1

4.2 Reduced Mercury in Lamps, 70 pg/lum-hr

1

Credit 5 **Sustainable Purchasing - Food**

1

Credit 6 **Solid Waste Management - Waste Stream Audit**

1

Credit 7 **Solid Waste Management**

2

7.1 Ongoing Consumables, 50%

1

7.2 Ongoing Consumables, 70%

1

Credit 8 **Solid Waste Management - Durable Goods**

1

Credit 9 **Solid Waste Management - Facility Alterations and Additions**

1

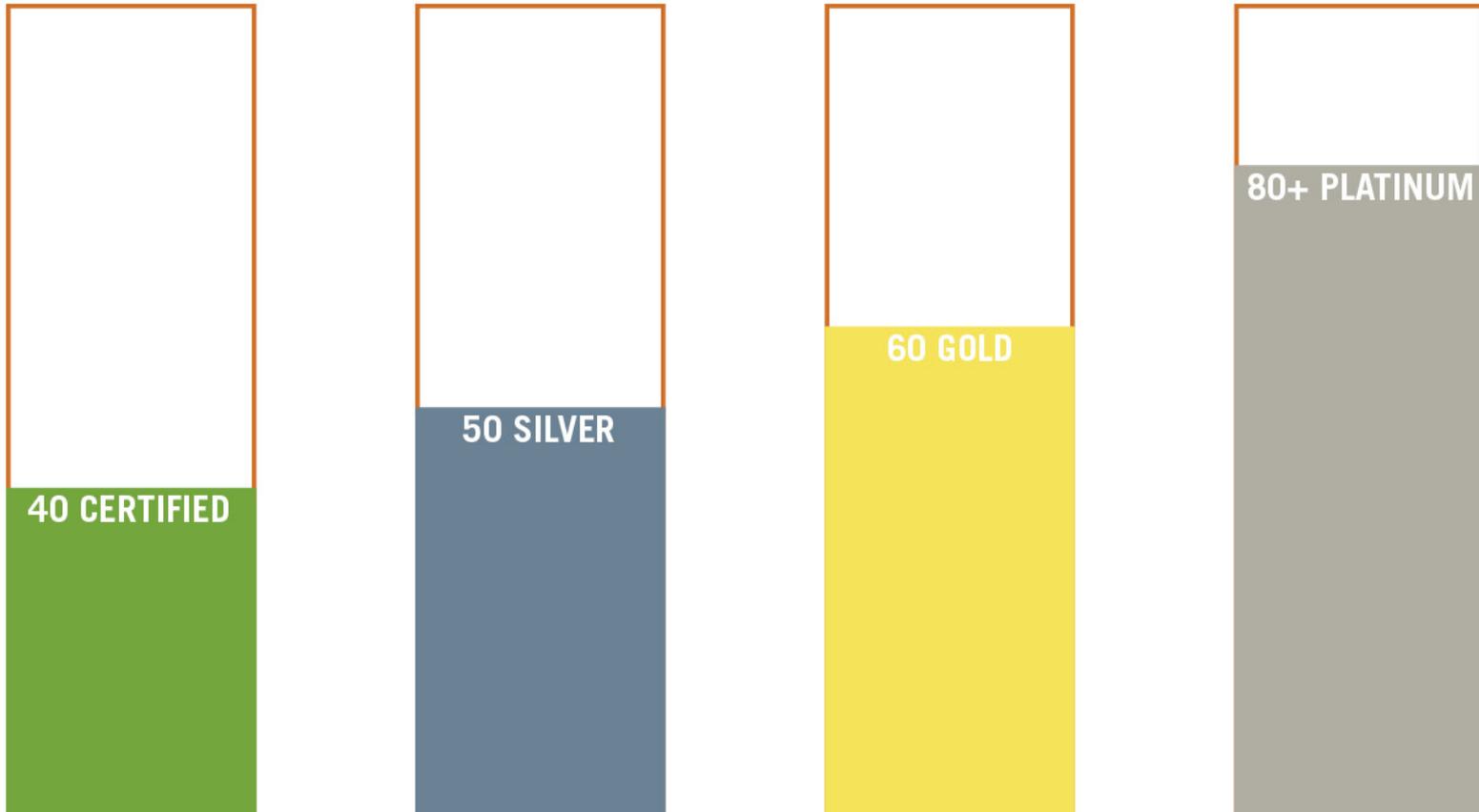
Yes ? No

0 0 0

Indoor Environmental Quality

19 Points

100 POINT SCALE



So where did the points go?

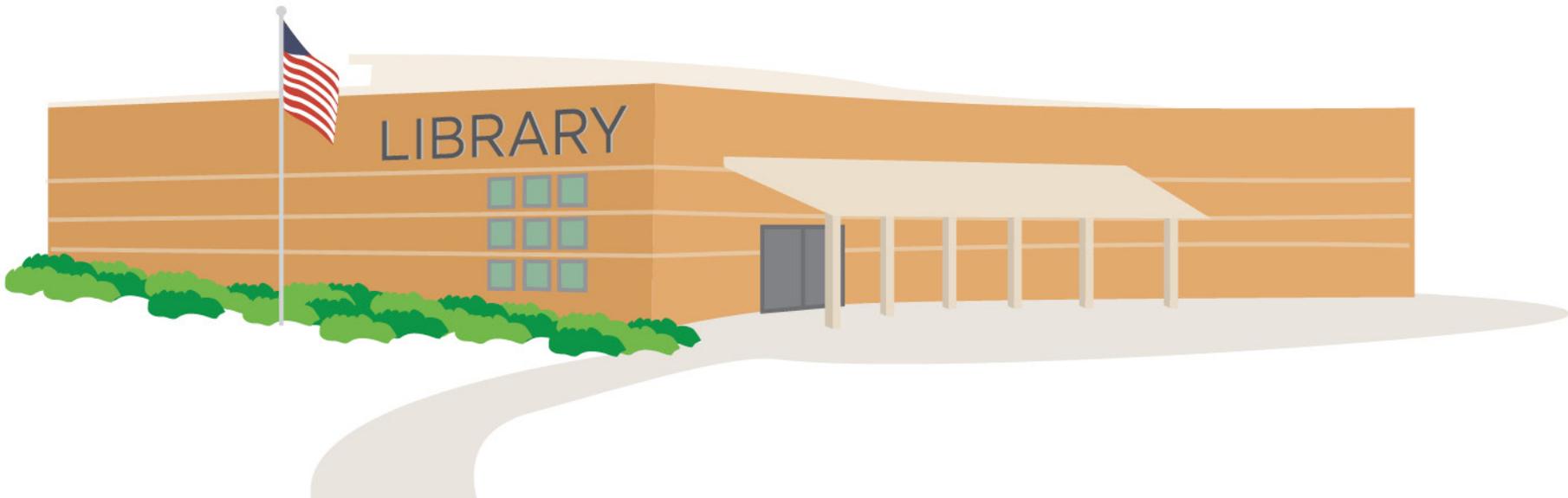


LEED NC v2.2			2009 LEED-NC		
Credit Category	Points	% of Total	Credit Category	Points	% of Total
SS	14	22%	SS	26	26%
WE	5	8%	WE	10	10%
EA	17	27%	EA	35	35%
MR	13	20%	MR	14	14%
IEQ	15	23%	IEQ	15	15%
LP		0%	LP		0%
ID	4		ID	5	
LEED AP	1		LEED AP	1	
RP			RP	4	
Total Base Points	64		Total Base Points	100	
Total Points	69		Total Points	110	

LEED ONLINE SUPPORTS:

- ONE BUILDING OR MULTIPLE PROJECTS
- CREDIT ALIGNMENT
- IMPROVED EFFICIENCY FOR PROJECT MANAGEMENT
- STREAMLINED REPORTING
- AGGREGATED METRICS
- GLOBAL SCALE
- NEW DELIVERY MODEL - GBCI

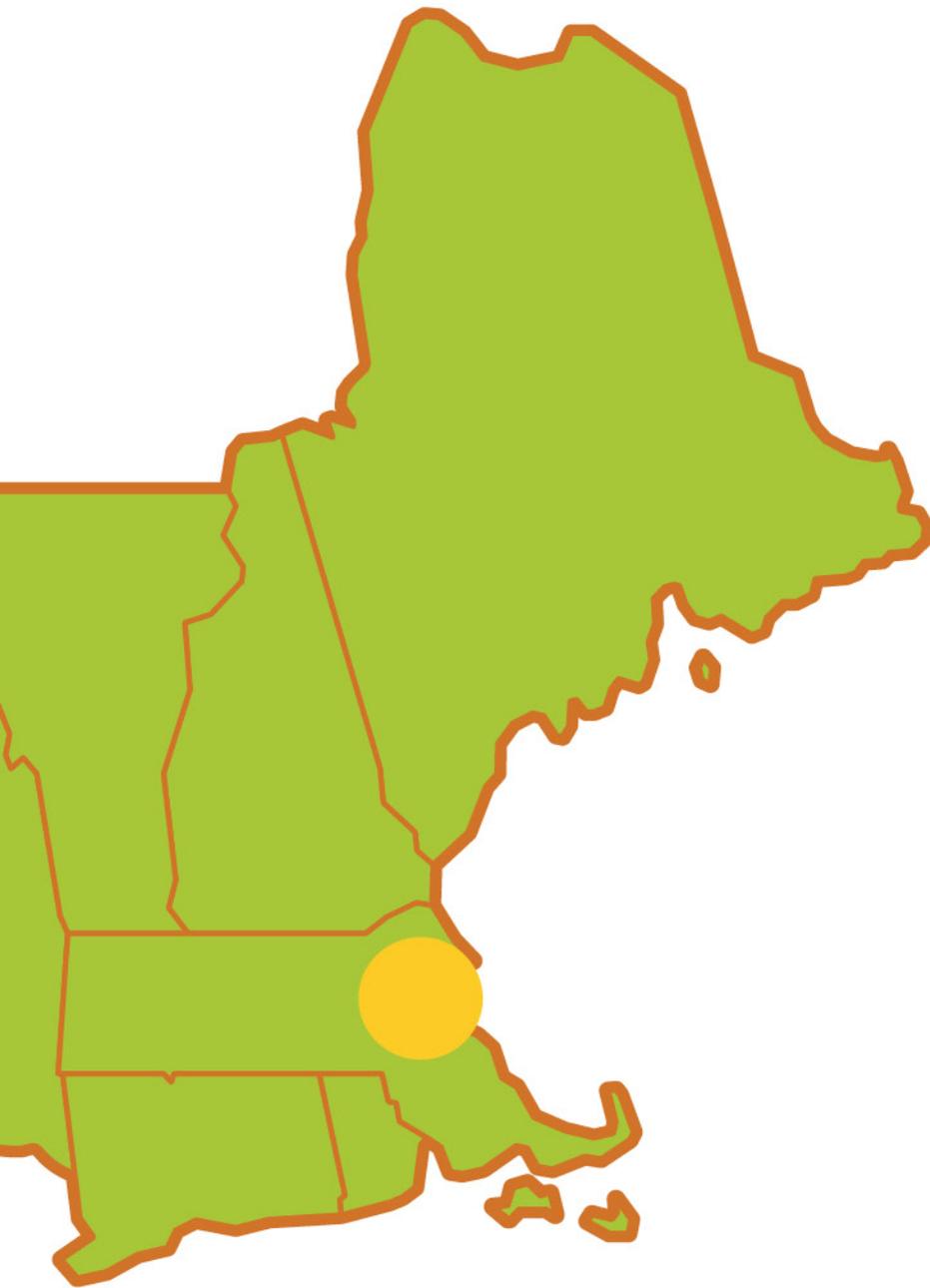
CREDIT PILOT LIBRARY



The USGBC Portfolio Program is a voluntary partnership for leading owners and managers seeking to integrate green building design and operation as standard practice throughout their real estate portfolio.



REGIONAL CREDITS



BOSTON-CI

SUSTAINABLE SITES

**CREDIT 3.2 ALTERNATIVE TRANSPORTATION,
BICYCLE STORAGE & CHANGING ROOMS**

WATER EFFICIENCY

CREDIT 1 WATER USE REDUCTION

ENERGY AND ATMOSPHERE

**CREDIT 1.1 OPTIMIZE ENERGY PERFORMANCE:
LIGHTING POWER**

**CREDIT 1.3 OPTIMIZE ENERGY PERFORMANCE:
HVAC**

MATERIALS AND RESOURCES

CREDIT 3.1 MATERIAL REUSE, 5%

**CREDIT 5.1 REGIONAL MATERIALS, 20%
MANUFACTURED REGIONALLY**



**GREEN BUILDINGS
FOR EVERYONE
WITHIN A GENERATION**

THANK YOU