

LEED 2009 FOR  
**SCHOOLS**  
NEW CONSTRUCTION  
AND MAJOR RENOVATIONS

For Public Use and Display  
LEED 2009 for Schools New Construction  
and Major Renovations Rating System  
USGBC Member Approved November 2008



# PREFACE FROM USGBC

The built environment has a profound impact on our natural environment, economy, health, and productivity. Breakthroughs in building science, technology, and operations are now available to designers, builders, operators, and owners who want to build green and maximize both economic and environmental performance.

Through the LEED® green building certification program, the U.S. Green Building Council (USGBC) is transforming the built environment. The green building movement offers an unprecedented opportunity to respond to the most important challenges of our time, including global climate change, dependence on non sustainable and expensive sources of energy, and threats to human health. The work of innovative building professionals is a fundamental driving force in the green building moment. Such leadership is a critical component to achieving USGBC's mission of a sustainable built environment for all within a generation.

## **USGBC MEMBERSHIP**

USGBC's greatest strength is the diversity of our membership. USGBC is a balanced, consensus based nonprofit with more than 18,000 member companies and organizations representing the entire building industry. Since its inception in 1993, USGBC has played a vital role in providing a leadership forum and a unique, integrating force for the building industry. USGBC's programs have three distinguishing characteristics:

### **Committee-based**

The heart of this effective coalition is our committee structure, in which volunteer members design strategies that are implemented by staff and expert consultants. Our committees provide a forum for members to resolve differences, build alliances, and forge cooperative solutions for influencing change in all sectors of the building industry.

### **Member-driven**

Membership is open and balanced and provides a comprehensive platform for carrying out important programs and activities. We target the issues identified by our members as the highest priority. We conduct an annual review of achievements that allows us to set policy, revise strategies, and devise work plans based on members' needs.

### **Consensus-focused**

We work together to promote green buildings, and in doing so, we help foster greater economic vitality and environmental health at lower costs. We work to bridge ideological gaps between industry segments and develop balanced policies that benefit the entire industry.

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## ACKNOWLEDGMENTS

The LEED 2009 Rating System has been made possible only through the efforts of many dedicated volunteers, staff members, and others in the USGBC community. The Rating System improvement work was managed and implemented by USGBC staff and included review and input by many Technical Advisory Group (TAG) members with oversight by the LEED Steering Committee. We extend our deepest gratitude to all of our LEED committee members who participated in the development of this rating system, for their tireless volunteer efforts and constant support of USGBC's mission:

### LEED Steering Committee

Scot Horst, Chair, LSC	Horst, Inc
Joel Ann Todd, Vice-Chair, LSC	Joel Ann Todd
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Stuart Carron	JohnsonDiversey, Inc.
Holley Henderson	H2 Ecodesign, LLC
Christine Magar	Greenform
Kristin Shewfelt	Architectural Energy Corporation
Jessica Millman	Agora DC
Bryna Dunn	Moseley Architects
Neal Billetdeaux	JJR
Greg Kats	Managing Good Energies
Mark Webster	Simpson Gumpertz & Heger
Bob Thompson	EPA Indoor Environment Management Branch
Malcolm Lewis	Constructive Technologies Group, Inc.
John Boecker	7Group
Sara O'Mara	Choate Construction Company
Alex Zimmerman	Rep Canada Green Building Council
Ian Theaker	Rep Canada Green Building Council

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Gina Baker	Burt Hill
Ted Bardacke	Global Green USA
Stephen Benz	Sasaki
Mark Brumbaugh	Brumbaugh & Associates
Laura Case	Emory University Campus Services
Zach Christeson	the HOK Planning Group
Jay Enck	Commissioning & Green Building Services
Ron Hand	E/FECT. Sustainable Design Solutions
Richard Heinisch	Acuity Lighting Group
Michael Lane	Lighting Design Lab
Marita Roos	HNTB
Zolna Russell	Hord Coplan Macht, Inc.
Alfred Vick	Ecos Environmental Design, Inc.

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John Koeller, Vice-Chair	Alliance for Water Efficiency
David Carlson	Columbia University
Bill Hoffman	H.W. Hoffman and Associates, LLC
Geoff Nara	Civil & Environmental Consultants
Stephanie Tanner	U.S. Environmental Protection Agency
Daniel Yeh	University of South Florida
David Bracciano	Tampa Bay Water
Robert Rubin	NCSU-BAE and McKim & Creed
Winston Huff	SSR Engineers
Robert Benazzi	Jaros Baum & Bolles
Gunnar Baldwin	TOTO USA, INC
Heather Kinkade	Forgotten Rain, LLC
Shabbir Rawalpindiwala	Kohler Company
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Bion Howard	Building Environmental Science and Technology
Dan Katzenberger	Engineering, Energy, and the Environment
Bob Maddox	Sterling Planet
Brenda Morawa	BVM Engineering, Inc.
Erik Ring	LPA, Inc.
Michael Rosenberg	Oregon Department of Energy
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Gord Shymko	IPMVP and G.F. Shymko & Associates
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Chris Dixon	NBBJ
Ann Edminster	Design AVenues
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Theresa Hogerheide-Reusch	Reusch Design Services
Nadav Malin	BuildingGreen, LLC.

Nancy Malone	Siegel & Strain Architects
Kirsten Ritchie	Gensler
Wayne Trusty	Athena Sustainable Materials Institute
Denise Van Valkenburg	MASCO Retail Cabinet Group
Gabe Wing	Herman Miller, Inc.

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David Lubman	David Lubman & Associates
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Ozgem Ornektekin	DMJM Harris
Jude Anders	Shoreline Concepts, LLC
Brian Cloward	Mithun Architects+Designers+Planners
Larry Dykhuis	Herman Miller, Inc
Francis (Bud) Offerman	Indoor Environmental Engineering
Christopher Schaffner	The Green Engineer
Dennis Stanke	Trane Company

The LEED 2009 for Schools Rating System builds on the work of those who helped create previous versions:

**LEED for Schools Core Committee**

Robert Kobet, Chair	Sustainaissance International
Jyoti Sharma, Vice-Chair	Wake County Public Schools
Anja Caldwell	Montgomery County Public Schools
Gregory Churchill	Oregon State Energy Office
Charles Eley	Architectural Energy Corporation
Deane Evans, NJIT	Center for Architecture and Building Science Research
William Orr	California Integrated Waste Management Board
Larry Schoff	Energy Efficient Solutions
Katrina Shum-Miller	Green Building Services
Timothy Sisson	York International
Brenda Stokes	Bibb County Public Schools

# LEED 2009 FOR SCHOOLS NEW CONSTRUCTION AND MAJOR RENOVATIONS PROJECT CHECKLIST

<b>Sustainable Sites</b>		<b>24 Possible Points</b>
<input checked="" type="checkbox"/>	Prerequisite 1 Construction Activity Pollution Prevention	Required
<input checked="" type="checkbox"/>	Prerequisite 2 Environmental Site Assessment	Required
<input type="checkbox"/>	Credit 1 Site Selection	1
<input type="checkbox"/>	Credit 2 Development Density and Community Connectivity	4
<input type="checkbox"/>	Credit 3 Brownfield Redevelopment	1
<input type="checkbox"/>	Credit 4.1 Alternative Transportation—Public Transportation Access	4
<input type="checkbox"/>	Credit 4.2 Alternative Transportation—Bicycle Storage and Changing Rooms	1
<input type="checkbox"/>	Credit 4.3 Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles	2
<input type="checkbox"/>	Credit 4.4 Alternative Transportation—Parking Capacity	2
<input type="checkbox"/>	Credit 5.1 Site Development—Protect or Restore Habitat	1
<input type="checkbox"/>	Credit 5.2 Site Development—Maximize Open Space	1
<input type="checkbox"/>	Credit 6.1 Stormwater Design—Quantity Control	1
<input type="checkbox"/>	Credit 6.2 Stormwater Design—Quality Control	1
<input type="checkbox"/>	Credit 7.1 Heat Island Effect—Nonroof	1
<input type="checkbox"/>	Credit 7.2 Heat Island Effect—Roof	1
<input type="checkbox"/>	Credit 8 Light Pollution Reduction	1
<input type="checkbox"/>	Credit 9 Site Master Plan	1
<input type="checkbox"/>	Credit 10 Joint Use of Facilities	1
<b>Water Efficiency</b>		<b>11 Possible Points</b>
<input checked="" type="checkbox"/>	Prerequisite 1 Water Use Reduction	Required
<input type="checkbox"/>	Credit 1 Water Efficient Landscaping	2-4
<input type="checkbox"/>	Credit 2 Innovative Wastewater Technologies	2
<input type="checkbox"/>	Credit 3 Water Use Reduction	2-4
<input type="checkbox"/>	Credit 4 Process Water Use Reduction	1
<b>Energy and Atmosphere</b>		<b>33 Possible Points</b>
<input checked="" type="checkbox"/>	Prerequisite 1 Fundamental Commissioning of Building Energy Systems	Required
<input checked="" type="checkbox"/>	Prerequisite 2 Minimum Energy Performance	Required
<input checked="" type="checkbox"/>	Prerequisite 3 Fundamental Refrigerant Management	Required
<input type="checkbox"/>	Credit 1 Optimize Energy Performance	1-19
<input type="checkbox"/>	Credit 2 On-site Renewable Energy	1-7
<input type="checkbox"/>	Credit 3 Enhanced Commissioning	2
<input type="checkbox"/>	Credit 4 Enhanced Refrigerant Management	1
<input type="checkbox"/>	Credit 5 Measurement and Verification	2
<input type="checkbox"/>	Credit 6 Green Power	2
<b>Materials and Resources</b>		<b>13 Possible Points</b>
<input checked="" type="checkbox"/>	Prerequisite 1 Storage and Collection of Recyclables	Required
<input type="checkbox"/>	Credit 1.1 Building Reuse—Maintain Existing Walls, Floors and Roof	1-2

<input type="checkbox"/>	Credit 1.2	Building Reuse—Maintain Existing Interior Nonstructural Elements	1
<input type="checkbox"/>	Credit 2	Construction Waste Management	1-2
<input type="checkbox"/>	Credit 3	Materials Reuse	1-2
<input type="checkbox"/>	Credit 4	Recycled Content	1-2
<input type="checkbox"/>	Credit 5	Regional Materials	1-2
<input type="checkbox"/>	Credit 6	Rapidly Renewable Materials	1
<input type="checkbox"/>	Credit 7	Certified Wood	1

### Indoor Environmental Quality

**19 Possible Points**

<input checked="" type="checkbox"/>	Prerequisite 1	Minimum Indoor Air Quality Performance	Required
<input checked="" type="checkbox"/>	Prerequisite 2	Environmental Tobacco Smoke (ETS) Control	Required
<input checked="" type="checkbox"/>	Prerequisite 3	Minimum Acoustical Performance	Required
<input type="checkbox"/>	Credit 1	Outdoor Air Delivery Monitoring	1
<input type="checkbox"/>	Credit 2	Increased Ventilation	1
<input type="checkbox"/>	Credit 3.1	Construction Indoor Air Quality Management Plan—During Construction	1
<input type="checkbox"/>	Credit 3.2	Construction Indoor Air Quality Management Plan—Before Occupancy	1
<input type="checkbox"/>	Credit 4	Low-Emitting Materials	1-4
<input type="checkbox"/>	Credit 5	Indoor Chemical and Pollutant Source Control	1
<input type="checkbox"/>	Credit 6.1	Controllability of Systems—Lighting	1
<input type="checkbox"/>	Credit 6.2	Controllability of Systems—Thermal Comfort	1
<input type="checkbox"/>	Credit 7.1	Thermal Comfort—Design	1
<input type="checkbox"/>	Credit 7.2	Thermal Comfort—Verification	1
<input type="checkbox"/>	Credit 8.1	Daylight and Views—Daylight	1-3
<input type="checkbox"/>	Credit 8.2	Daylight and Views—Views	1
<input type="checkbox"/>	Credit 9	Enhanced Acoustical Performance	1
<input type="checkbox"/>	Credit 10	Mold Prevention	1

### Innovation in Design

**6 Possible Points**

<input type="checkbox"/>	Credit 1	Innovation in Design	1-4
<input type="checkbox"/>	Credit 2	LEED Accredited Professional	1
<input type="checkbox"/>	Credit 3	The School as a Teaching Tool	1

### Regional Priority

**4 Possible Points**

<input type="checkbox"/>	Credit 1	Regional Priority	1-4
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## LEED 2009 for Schools New Construction and Major Renovations

100 base points; 6 possible Innovation in Design and 4 Regional Priority points

Certified	40–49 points
Silver	50–59 points
Gold	60–79 points
Platinum	80 points and above