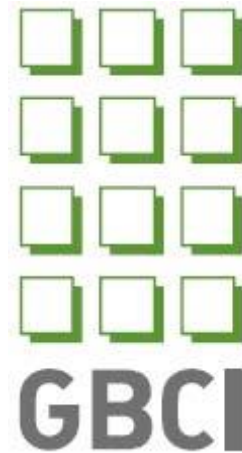


Guiding Principles for High Performance Federal Buildings

Guiding Principles Assessment by GBCI

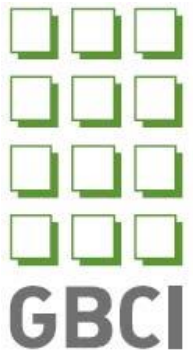
Melissa Baker
VP, Technical Solutions
U.S. GREEN BUILDING COUNCIL



AGENDA

GBCI Focus on the Federal High Performance Sustainable Buildings Check List, The Guiding Principles

- **Guiding Principles Assessment** By GBCI
- **Goals of Program**
- **Program Description**
- **Reporting**
- **Resources**



Guiding Principles Assessment by GBCI

PROGRAM GOALS

- Eliminate redundant reporting
- Leverage LEED specifications to meet principles
- Support third party assessment
- All project types:

Guiding Principles Assessment by GBCI

- Supporting Existing Buildings
& New Construction/Major Renovation
- LEED & Non-LEED Projects



Guiding Principles Assessment by GBCI

PROGRAM OVERVIEW

- **Initial assessment**
- **Tools** for agencies:
 - Determine where project is on path to conformance*
- **Support for implementation** and documentation
- **Third-party verification** of conformance by GBCI
- **Reporting** through a centralized platform



LEED NC AND GUIDING PRINCIPLES



GP

All Prerequisites
15 Credits Contribute
to Guiding Principles

Guiding Principles
requirements can
be met through
LEED credits



Guiding Principles Assessment by GBCI

Guiding Principles

OUTDOOR WATER

- Reduce outdoor potable water consumption by a minimum of **50 percent**

LEED NC

WEc1 WATER EFFICIENT LANDSCAPING

- Reduce potable water consumption for irrigation by **50 percent**



Guiding Principles Assessment

Sustainable New Construction and Major Renovations

LEED NC v2009 Certified Project Compliance Path

General Information		
Building Name:	<input type="text"/>	
LEED Project #:	<input type="text"/> Rating System: LEED NC v2009	
Address:	<input type="text"/>	
Guiding Principle	Verification of Compliance	
I. Employ Integrated Design Principles		
Integrated Design	<p>Use a collaborative, integrated planning and design process that: Initiates and maintains an integrated project team as described in the Whole Building Design Guide in all stages of a project's planning and delivery.</p>	<p>No LEED equivalent. Select documentation collected to demonstrate compliance:</p> <p><input type="checkbox"/> Narrative description of integrated design process</p> <p><input type="checkbox"/> Other: <input type="text"/></p> <p>- OR -</p> <p>Indicate why Guiding Principle is not applicable to project:</p> <input type="text"/>

Guiding Principles Assessment

Sustainable New Construction and Major Renovations

LEED NC v2009 Certified Project Compliance Path

III. Protect and Conserve Water

Outdoor Water

Use water efficient landscape and irrigation strategies, such as water reuse, recycling, and the use of harvested rainwater, to reduce outdoor potable water consumption by a minimum of 50 percent over that consumed by conventional means (plant species and plant densities). The installation of water meters for locations with significant outdoor water use is encouraged.

Select the path and documentation collected to demonstrate compliance:

Earned WEc1 Water Efficient Landscaping in LEED NC v2009

Water efficient landscape and irrigation strategies pursued, WEc1 not earned

Watergy tool

[LEED NC v2009 WEc1 form](#)

Other:

- OR -

Indicate why Guiding Principle is not applicable to project:

Guiding Principles Assessment by GBCI

Guiding Principles

ON-SITE RENEWABLE ENERGY

(EISA) Section 523, meet at least 30% of the hot water demand through the installation of solar hot water heaters, when lifecycle cost effective.

No LEED equivalent. *Select the path and documentation collected to demonstrate conformance*



Guiding Principles Assessment

Sustainable New Construction and Major Renovations

II. Optimize Energy Performance

On-Site Renewable Energy

Per the Energy Independence and Security Act (EISA) Section 523, meet at least 30% of the hot water demand through the installation of solar hot water heaters, when lifecycle cost effective.

No LEED equivalent. Select the path and documentation collected to demonstrate compliance:

Solar hot water heater included in design

- Design documents showing solar heating system
- Construction documents demonstrating solar heater installation
- Calculations demonstrating 30% hot water demand met
- Other:

Solar hot water heater NOT included in design

- Lifecycle calculations demonstrating that providing 30% of hot water demand through the installation of solar hot water heaters is not cost effective.
- Other:

- OR -

Indicate why Guiding Principle is not applicable to project:

Guiding Principles Assessment by GBCI

NEW CONSTRUCTION (MAJOR RENOVATION)

LEED PROJECTS

- Over 55% of GP program achieved through achieved LEED credits
- GPC Verification Form
- Supplemental documentation sent in tandem with LEED application
- Documentation guidance available for all elements



Guiding Principles Assessment by GBCI

NEW CONSTRUCTION (MAJOR RENOVATION)

NON-LEED PROJECTS

- GPC Verification Form
- Supplemental documentation sent using LEED Online
- LEED forms and tools used to demonstrate conformance with the GPC program
- Documentation guidance available for all elements



LEED EB AND GUIDING PRINCIPLES



GP

**7 out of 8 Prerequisites
16 Credits Contribute
to Guiding Principles
Program**

**Over 65% of Guiding
Principles
requirements can
be met through
LEED credits**



LEED EB AND GUIDING PRINCIPLES



Guiding Principles for Sustainable Existing Buildings

Project Checklist

Project Name

Date

2 2 1 I. Employ Integrated Assessment, Operation, and Management Principles

Doc	In Place	No
1		
1		
	1	
	1	
		1

- Element 1 Team Roster
- Element 2 Environmental Management System
- Element 3 Tenant Education
- Element 4 Occupant Feedback
- Element 5 Commissioning

Notes:

1 3 1 II. Optimize Energy Performance

Doc	In Place	No
		1
	1	
	1	
1		
	1	

- Element 1 Energy Efficiency
 - Option 1: ENERGY STAR Rating of 75 or Higher
 - Option 2: Reduce Energy Use by 20% Compared to Use
 - Option 3: Reduce Energy Use by 20% Compared to ASHRAE 90.1-2007
- Element 2 Energy Efficient Products
- Element 3 Onsite Renewable Energy
- Element 4 Measurement & Verification
- Element 5 Benchmarking

Notes:

3 1 2 III. Protect and Conserve Water

Doc	In Place	No
1		
1		

- Element 1 Indoor Water
 - Option 1: Reduce Potable Water Use Calculation
 - Option 2: Reduce Potable Water Use Performance
- Element 2 Outdoor Water Use
 - Option 1: Reduce Potable Irrigation Calculation
 - Option 2: Reduce Potable Irrigation Performance
 - Option 3: Use No Potable Irrigation Water

Notes:

Guiding Principles Assessment by GBCI

THIRD PARTY REVIEW

PRELIMINARY REVIEW

- Review comments
- Project team response

FINAL REVIEW

- Conformance level awarded
- Option to “appeal” elements where conformance was not awarded (additional fee)
- Certificate provided to confirm conformance



Guiding Principles Assessment by GBCI

RESOURCES

- Customer touch point with GBCI Staff
- Access to all resources (guide, tools, samples)
- Guiding Principles Assessment Form
- Submit using LEED Online
- Clear and simple documentation requirements
- Streamline documentation
- Option for 3rd Party Verification



Guiding Principles Assessment by GBCI

ACKNOWLEDGMENT

- Report on conformance
- Status of conformance with GP & LEED if applicable
- Certificate if fully compliant with GP
- GBCI will work with agency to discuss progress, gaps, and next steps
- GBIG, Reporting Tool



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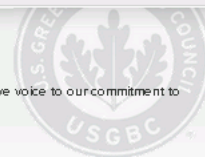
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About USGBC

The U.S. Green Building Council is a 501(c)(3) nonprofit community of members, chapters, advocates and practitioners that give voice to our commitment to improve human health, support economies and protect the environment through green buildings.






FEATURED ACTIVITIES

View all 134,103 GBIG Activities


MOST RECENT ACTIVITY



LEARN MORE AT energystar.gov

2,1059 activities

ENERGY STAR



LIVING BUILDING CHALLENGE

4 activities

Living Building Challenge



75 activities




78 activities

Green Ribbon Schools



3,716 activities

LEED Canada



75 activities

AIA/COTE Top Ten




186 activities

Enterprise Green Communities



63 activities

AIRE



2 activities

Net Zero Energy

02/20/2013
3 days ago

LEED for New Construction 2.2
(Gold)
Holt Cat - Sulphur Springs

GUIDING PRINCIPLES FOR SUSTAINABLE NEW CONSTRUCTION AND MAJOR RENOVATIONS

GUIDING BASED FOR SUSTAINABLE EXSISTING BUILDINGS

LEED for New Construction 2.2
(Silver)
ARNG Readiness Center, Camp Navajo

LEED for New Construction 2.2
(Certified)
MCC Institute for Culinary Arts
Omaha, Nebraska

02/18/2013
5 days ago

LEED for New Construction 2.2
(Certified)
mbi | k2m Offices
Cleveland, Ohio



LEED & Guiding Principles Private

Overview **Activities (9)**

WHY IT'S GREEN

ACTIVITIES

9

Green activities
[See all »](#)

BUILDINGS

4

Buildings containing green activities
[See all »](#)

PLACES

6

Places with Buildings containing green activities

LEED CERTIFICATION ACTIVITY

3

certified activities

516,388

LEED certified sq ft



CUMULATIVE ACTIVITY COUNT BY YEAR



SAMPLE DATA SET

RECENT ACTIVITY

2012

<p>22505 SR 9 SE</p> <p>LEED NC 2.1 09/13/2012</p> <p>PLATINUM</p>	<p>Land Port of Entry - Malden</p> <p>Guiding Principles: New Construction/Major Renovation 01/01/2012</p> <p>GP COMPLIANT</p>
<p>Martin Luther King JR. Federal Building</p> <p>LEED NC 2.1 12/22/2011</p> <p>GOLD</p>	<p>FERC</p> <p>Guiding Principles: New Construction/Major Renovation 01/01/2010</p> <p>GP COMPLIANT</p>
<p>Byron G. Rogers US Courthouse</p> <p>LEED EB 1.0 Pilots Only (Accepted Before 1/1/04) 09/21/2006</p> <p>GOLD</p>	

[View All Activities »](#)

COLLECTION BREAKDOWN

Activity Count: 9



LEED & Guiding Principles Private

Overview Activities (9)

WHY IT'S GREEN

ACTIVITIES

9

Green activities
[See all »](#)

BUILDINGS

4

Buildings containing green activities
[See all »](#)

PLACES

6

Places with Buildings containing green activities

LEED CERTIFICATION ACTIVITY

3

certified activities

516,388

LEED certified sq ft



RECENT ACTIVITY

2012

22505 SR 9 SE

LEED NC 2.1
09/13/2012



Martin Luther King JR. Federal Building

LEED NC 2.1
12/22/2011

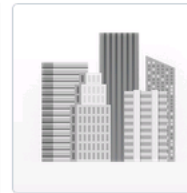


Byron G. Rogers US Courthouse

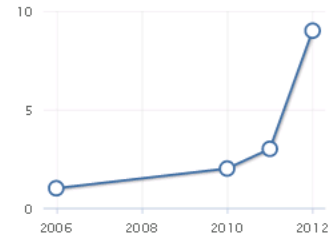
LEED EB 1.0 Pilots Only
(Accepted Before 1/1/04)
09/21/2006



[View All Activities »](#)



CUMULATIVE ACTIVITY COUNT BY YEAR



SAMPLE GP ACTIVITY

Guiding Principles: New Construction/Major Renovation
01/01/2010

GP COMPLIANT



ACTIVITIES
Green Events & Projects



BUILDINGS
Green Structures



PLACES
Cities, States & Countries



STRATEGIES
Processes & Practices



COLLECTIONS
Groups & Project Portfolios

Home » Collections » My Collections



LEED & Guiding Principles Private

Overview **Activities (8)**

DOWN LOAD DATA SET FROM COLLECTION

Showing 8 published activities

Map Table

Add to a Collection

Name	Activity	Date	Outcome
<input type="checkbox"/> 22505 SR 9 SE Woodinville, WA US	LEED NC 2.1	2012-09-13	Platinum Certified
<input type="checkbox"/> Land Port of Entry - Malda Langdon, ND US	Guiding Principles: New Construction/Major Renovation	2012-01-01	GP Compliant
<input type="checkbox"/> FERC Washington, DC US	Guiding Principles: New Construction/Major Renovation	2010-01-01	GP Compliant
<input type="checkbox"/> Byron G. Rogers US Courthouse Denver, CO US	LEED EB 1.0 Pilots Only (Accepted Before 1/1/04)	2006-09-21	Gold Certified
<input type="checkbox"/> Land Port of Entry-Wild Horse Havre, MT US	Guiding Principles: New Construction/Major Renovation		Partial GP Compliance
<input type="checkbox"/> ATF HQ Washington, DC US	Guiding Principles: Existing Building		GP Compliant
<input type="checkbox"/> Francis Perkins Bldg Washington, DC US	Guiding Principles: Existing Building		Not GP Compliant
<input type="checkbox"/> EPA Ariel Rios Washington, DC US	Guiding Principles: Existing Building		Partial GP Compliance

Guiding Principles Assessment by GBCI

CONCLUSION

- Program in Beta Test
- Customize for Agency
- Focus on GP Conformance
- LEED as Tool
- Adaptable Program



Contact Information

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