

**Latest Trends in Sustainable Design:**

**The Case for Going Green  
LEED® Green Building Rating System™ 2009 Update  
Buildings Going for Certification**

**Presented by:**

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**FR 2109**

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**The Case for Going Green: Mike Herlihy**  
*Learning Objectives*

- Review role of Design Professional and standards that apply to services performed
- Business benefits of Sustainable Design
- Prevalence of Sustainable Design and possible future trends
- Possible changes in Design Process as result of trends in Sustainable Design



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**Role of Design Professional**

- Scope of Services
- Standard of Care
- Contract Language
- Additional Risks
- Quality Assurance / Quality Control



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**Steps for the Design Professional to Consider**

- Meet with project owner to discuss owner's goals with regard to LEED
- Stress that you will endeavor to achieve the standard, but with that constantly evolving, you cannot guarantee meeting the standard
- Cost-Benefit analysis needs to include initial increased costs weighed against costs of start-up, commissioning, future operations and maintenance



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### Business Benefits

- Direct Cost Savings in Using Project
  - ✓ Reduced energy, operations and maintenance over project life
- Increased customer, tenant and employee loyalty
- Cone, Inc. February 2008 Survey found:
  - ✓ 59% of people concerned about environmental impact of their consumption
  - ✓ 66% consider environmental impact of their purchases
  - ✓ 64% of younger workers born in the 70s and 80s surveyed care about their company's social and environmental activities




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### New Buildings Institute Study for USGBC

- 121 of 552 LEED Certified Buildings participated in the study
- Report issued March 4, 2008
- Overall LEED Buildings delivered 25 to 30% better energy savings than national average for all commercial buildings
- Study can be found at [www.newbuildings.org](http://www.newbuildings.org)




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### EPA Advance Notice of Proposed Rulemaking

July 23, 2008 ANPR solicited comments on the regulation of Greenhouse Gases

MA vs. EPA in which U.S. Supreme Court ruled CO2 fell within the definition of a pollutant contained in the Federal Clean Air act

EPA now charged with the duty at least to study the issue. Likely a review of greenhouse gas emissions will be taken up by the Obama administration




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### Green Project Opportunities

- HUD Green Retrofit Program
  - ✓ \$250 million in grants and loans to eligible Section 8, 202 and 811 projects for the completion of green retrofits
  - ✓ Up to \$15,000 per unit for the retrofit costs
- On May 14, House of Representatives passed \$6.4 Billion school modernization fund
- Public Housing Authorities to provide funding for improving energy efficiency in Public Housing Projects



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### General Public Trend Toward Sustainability

- Obama Administration commitment to cut greenhouse gas emissions, promote environmentally friendly technologies
- State and local government agencies are all incorporating sustainability into projects. BRA and DCAM as examples in Boston, HUD and GSA at the National Levels
- Possible new regulations and laws may increase trend among private development as well
- Becoming more conscious of our carbon footprint will likely lead to local code changes incorporating more sustainability into projects



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### LEED® Green Building Rating System™ 2009 Update: Michelle Sommerman *Learning Objectives:*

- Develop an understanding of the USGBC and the LEED rating system.
- Learn what is generally required for LEED Certification.
- Learn about professional credentialing tiers based on the LEED Rating System
- Develop a basic understanding of the 2009 LEED rating system changes



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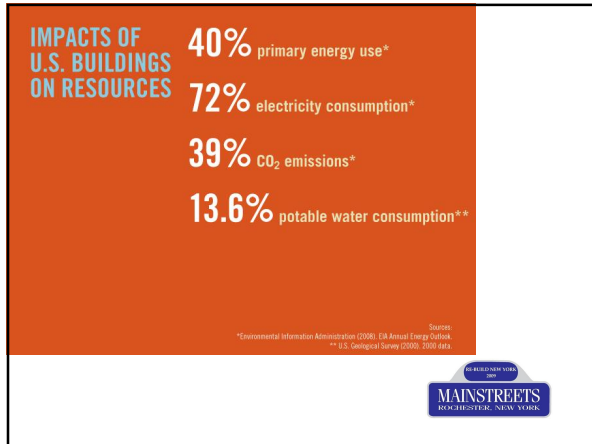
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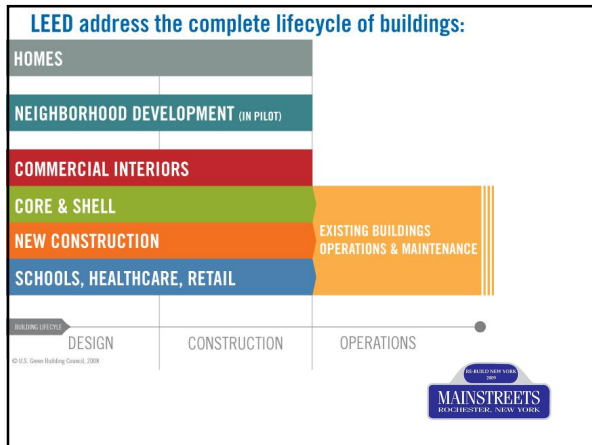
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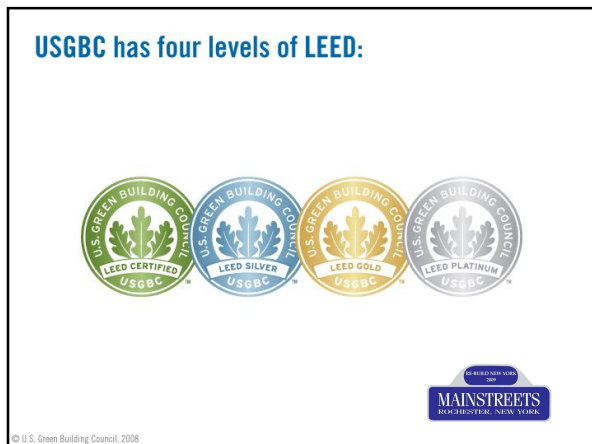
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### Certification Requirements

**Registration**

Fees \$450/\$600 (member/non-member)

**Tracking & Documentation**

Conduct design charette, target credits & track, complete preliminary credit calculations

**Certification**

Design review & Construction review (LEED 2009 BD+C, ID+C, Schools, C&S)

< 50,000 sq-ft - fixed rate of \$1,750/\$2,250 (2010: \$2,250/\$2,750)

= 50,000-500,000 sq-ft - \$0.035/\$0.045/sf (2010: \$0.045/\$0.055/sf)

> 500,000 sq-ft – fixed rate of \$17,500/\$22,500 (2010: \$22,500/\$27,500)

platinum fees are rebated, review construction submittals for compliance, complete & submit LEED online templates



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### Green Building Certification Institute

Established in January 2008 as a 501c6 nonprofit org.

Administers 3<sup>rd</sup> party project certification for buildings under USGBC's LEED Rating System, through accredited Certification Bodies

Manages professional credentialing programs based on LEED Rating System – LEED Green Associate and LEED AP.

Oversees credentialing maintenance program (CMP) for LEED professionals.



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### Tier I LEED Green Associate

Demonstrate green building expertise in non-technical fields.

Basic knowledge of green design, construction, and operations .



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**Tier II  
LEED AP**

- Advanced depth of knowledge in green building practices
- Specialization in a particular LEED Rating System:
  - Building Design & Construction
  - Operations & Maintenance
  - Interior Design and Construction
  - Homes
  - Neighborhood Development

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**Tier III  
LEED AP Fellow**  
*(under development)*

Elite class of leading professionals

Distinguished by years of experience

Peer review of project portfolio

Contribute to standards of practice and body of knowledge for continuous improvement in green building field

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**If you are already a LEED AP...**

- Three options:
  - Enroll in new system by summer 2011 i.e. agree to CMP, sign disciplinary policy, complete CMP.
  - Pass a specialty exam during your enrollment window (\$150/\$250); sign disciplinary policy, agree to CMP
  - Do nothing; LEED AP without specialty
- Designations:
  - NC – LEED AP BD+C
  - CI – LEED AP ID+C
  - EB – LEED AP O+M




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### If you are already a LEED AP (cont.)

- \$50 credentialing maintenance fee waived for first 2-years, after summer 2011 credential maintenance fee will be \$50 every two years
- Maximum 3 registrations per exam per 1-year period, 90-day waiting period between applications



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### LEED 2009 Rating Systems

Operations and Maintenance O+M  
(Existing Buildings)

Building Design and Construction BD+C  
(New Construction and Major Renovation)

Interior Design and Construction ID+C  
(Commercial Interiors)



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### LEED 2009 New Thresholds for Certification Levels

- Certified: 40-49 points
- Silver: 50-59 points
- Gold: 60-79 points
- Platinum: 80-110 points



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**USGBC 2009  
Chapter Initiatives**



**New York  
Upstate Chapter**  
greenupstateny.org

- Education
- Local & State Advocacy
- National Green Schools Campaign
- Residential Green Building Campaign
- Greening Commercial Real Estate
- Chapter Meetings [www.greenupstateny.org](http://www.greenupstateny.org)




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**Resources**

U.S. Green Building Council  
[www.usgbc.org](http://www.usgbc.org)  
 Green Building Certification Institute  
[www.gbci.org](http://www.gbci.org)  
 Education & Learning Opportunities  
[www.GreenBuild365.org](http://www.GreenBuild365.org)  
 USGBC New York Upstate Chapter  
[www.greenupstateny.org](http://www.greenupstateny.org)  
 Tracie Hall, Executive Director  
[tracie@greenupstateny.org](mailto:tracie@greenupstateny.org)




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