LEED® CERTIFICATION OVERVIEW

Susan Dieker, LEEP AP, Interior Design January 20, 2009

What is your position in the Industry?

- Pharmaceutical Engineer
- 2. Facilities Manager/Owner
- 3. Quality Control
- 4. Industry Partner
- 5. I'm here for the drinks





What does "LEED" stand for?

- Leaders for Excellent Economical Diversification
- Leaders for Excellence in Environmental Design



Leadership in Energy and Environmental Design

Lets Eat Every Dessert





Your Current knowledge of LEED Certification

- 1. Beginner (I've just heard about LEED)
- 2. Intermediate (I've been involved in a LEED project)
- 3. Expert (I should be doing this presentation)
- I just realized I'm at the wrong event





What do you want to learn today?



- General Information for LEED certifying a project
- How will Obama's economic stimulus package impact me?
- How to land a plane safely into the Hudson River





Today's Agenda

- General LEED Overview
- The Certification Process
- a) Early Steps
- **b)** Execution
- Tools
- Innovation and Design Credits
- e) Challenges





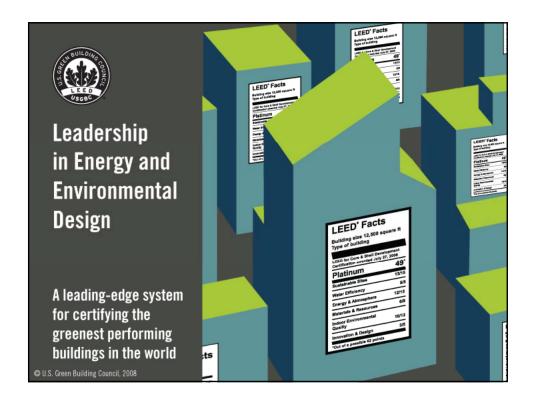
Good News in dire financial times!

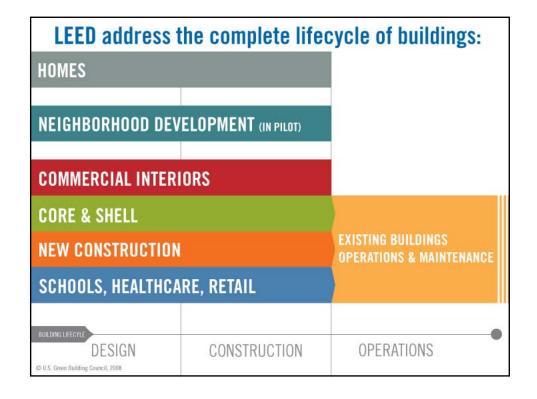
- 75% of commercial real estate executives say the credit crunch will not discourage them from building green
- 83% of them say they would be extremely or very likely to seek LEED certification for buildings planned in the next 3 years
- 80%+ commercial building owners have allocated funds to green initiatives this year

Source: USGBC news release January 13, 2009









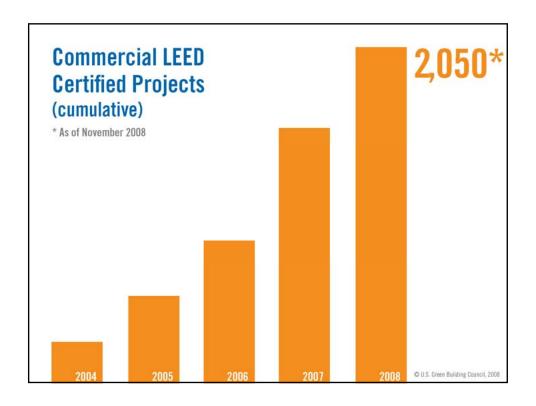
LEED Rating Systems

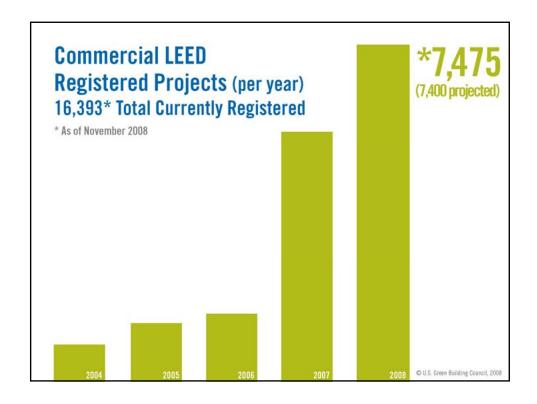
- Commercial Interiors (Tenant Improvements)
- Core and Shell (Core and Shell construction)
- New Construction (New construction and major renovation of commercial and institutional)
- Existing Building: Operations and Maintenance (Measures operations, improvements and maintenance)
- School, Healthcare, Retail (Specific to design and construction of each building type)
- Homes (Residential)
- Neighborhood Redevelopment (Smart growth, urbanism)











The Certification Process

- Early Steps
- Execution
- Tools
- Innovation and Design Credits
- Challenges





Early Steps...

- Decision to build or renovate / site characteristics / boundary
- Identify LEED rating system
- Create Project Team and assign responsibilities
- Define Scope: What level of LEED is feasible?







Early Steps...



- Strategies; Integrated Design; Analysis; Charettes
- Schedule and Budget
- Know Prerequisites of LEED (i.e., Fundamental commissioning, Minimum energy performance, CFC reduction in HVAC, Storage and collection of recyclables, Minimum IAQ performance, ETS control)





Execution

- Registration
- Resources
- Credit Submittals
- Review Process





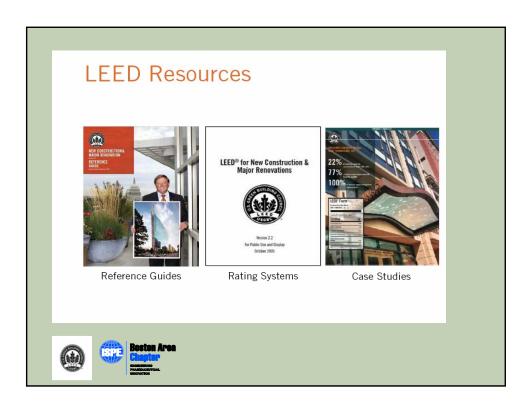


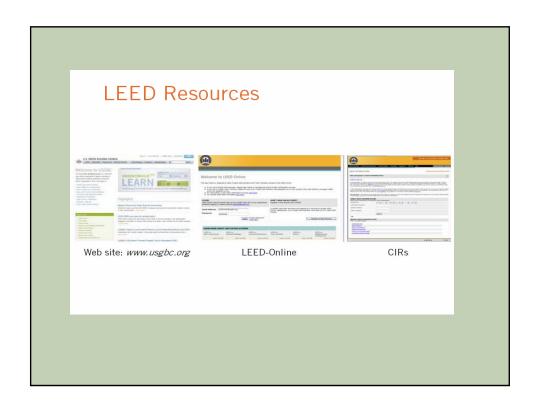
Registration

- Who should do it? Project Administrator
- When to do it? Early because registration date determines requirement
- Why it's important? Signifies intent to certify
- What it involves:
 - -Registration fee: Flat
 - -Review Fees: Based on project size
 - -Detailed fee info: www.usgbc.org/leed
 - -Add'l fee considerations: Appeal, CIR's, etc.









Credit Interpretation Rulings (CIR's)

- Questions regarding how to achieve specific LEED credit
- Answered on project-by-project basis ruling is clear, concise and precedent-setting
- Organized by LEED credit and date







Credit Submittals (LEED CI)

- Sustainable Sites (Site Selection, Alternative transport)
- Water Efficiency (Water use reduction)
- Energy and Atmosphere (Optimize energy performance)
- Materials and Resources (Recycled content, resource reuse, regional material)
- Indoor Environmental Quality (Low emitting material, daylighting, increased ventilation)
- Innovation and Design Process





Documentation for Submittals

- Understand what documentation is needed for each credit (Div1 materials, photos, contractor materials, etc.)
- Understand how one credit may relate to another (LEED online 2009 v3 will assist with this)
- Understand how general documentation (floor plans, site plans, narratives, etc.) relate to credits





Review Process 2 Options

Two-Phase Review Process

- -Design application and review
- -Construction application and review
- -Pro: Early feedback

Single-Phase Review Process

- -Application and review
- -Pro: Less time





Tools

- LEED On-line
- LEED templates





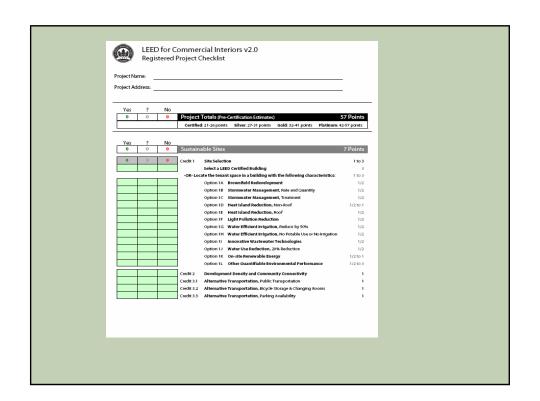
LEED-Online: Getting started

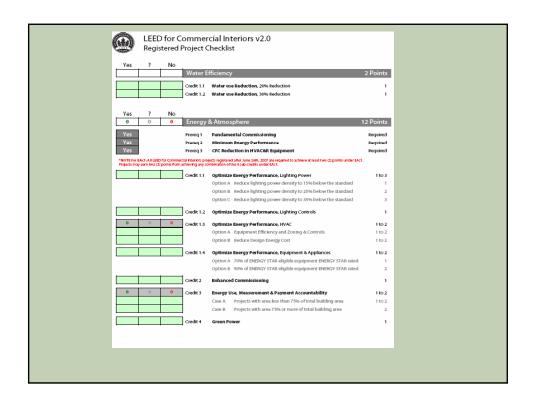
Assign LEED-online roles:

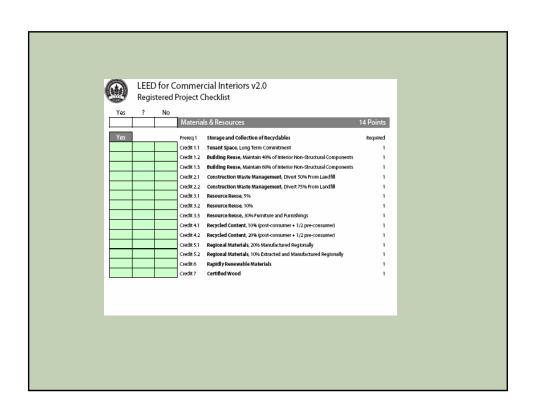
- -Project administrator (Registers the project, views/uploads/modifies documentation, submits application)
- -Project team members (views/uploads/modifies assigned credits)

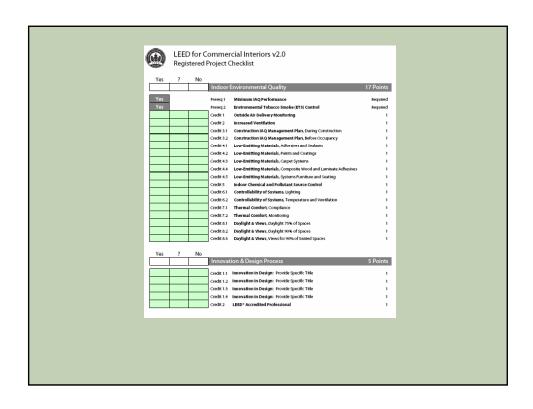


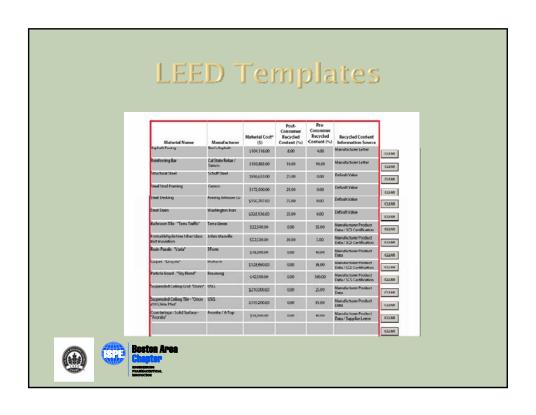


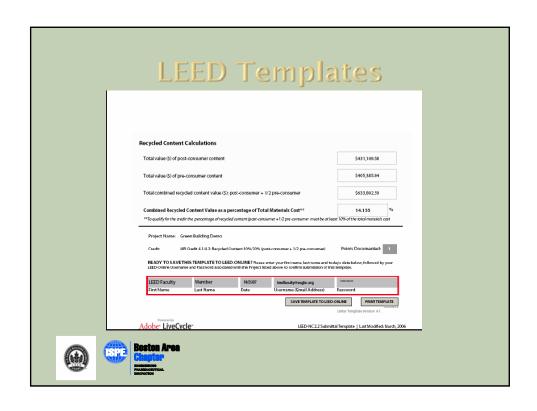


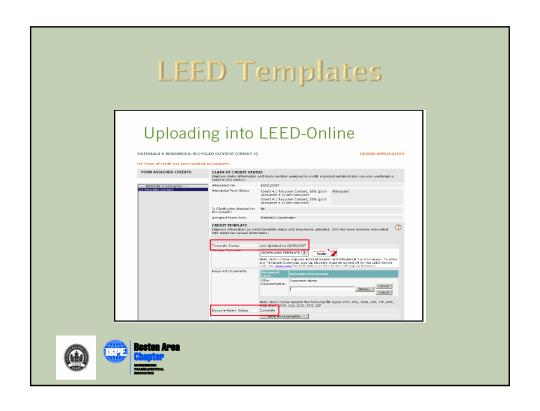


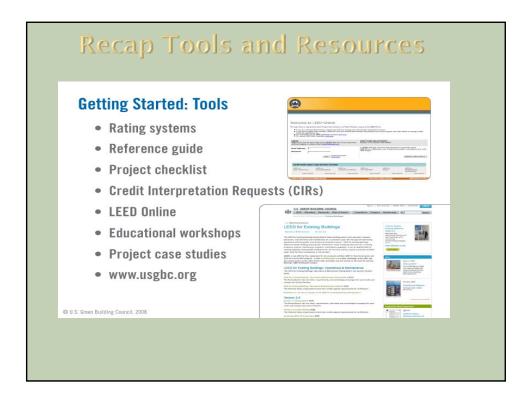










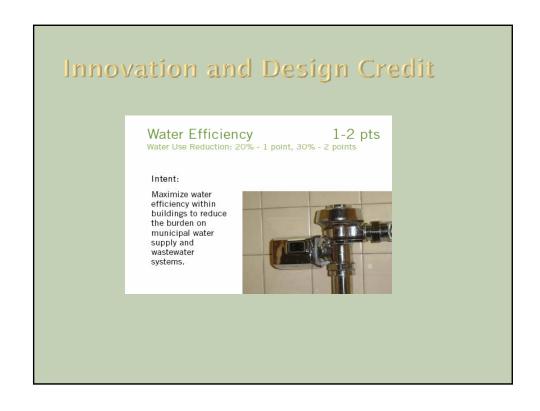


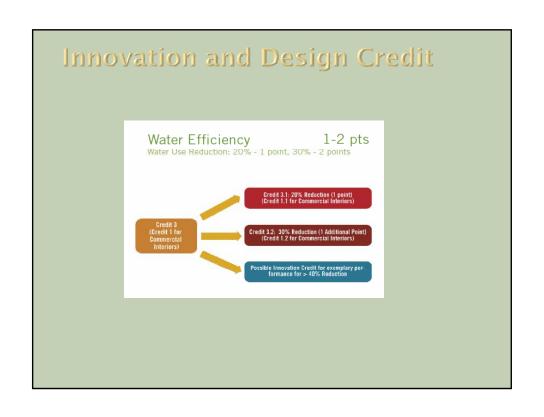
Innovations Points

- Innovation performance not covered by LEED
- Team must create intent, requirements, etc.
- Exceptional performance above existing LEED requirements
- Rule of Thumb: double credit requirements/next incremental percentage
- Only 4 Innovation points available (plus LEED-AP)









LEED online 2009 v3 enhancements

- Point scale change credits remain intact
- Eliminates some narrative
- Licensed professional exemptions
- Streamlining automated cross pollination to avoid inconsistencies (i.e., gross square footage and FTE's auto populated)





Challenges and Tips

- It can be difficult to obtain information for submittals
- Starting early is a good thing
- Realize the time involved in documentation
- Reinforce LEED requirements throughout design and construction
- Utilize an integrated partnership approach
- Commitment from the top





Thank you!

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