LEED: Current Impact and Future Opportunities

UCI Planning Workshop for a New California Plug-Load Energy Efficiency Center
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FOR
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CTG and LEED

CTG has been active in the U.S. Green Building Council since its inception

CTG – through Malcolm’s leadership on the Technical Advisory committee – has helped define what it means to be a Green Building

Over the last 13 years, we have helped develop both the LEED rating system and the green building market

We are reviewers, practitioners, educators, volunteers, and consultants for USGBC
USGBC MISSION

To transform the way buildings and communities are designed, built and operated, enabling an environmentally and socially responsible, healthy and prosperous environment that improves the quality of life.
USGBC membership growth reflects the expansion of green buildings in the market.

*As of September 2009

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National Green Building Research Agenda

A National Green Building Research Agenda
November 2007
USGBC Research Committee

$2 million for green building research grants

Leadership in Energy and Environmental Design

A leading-edge system for certifying the greenest performing buildings in the world

What Is Green Building?

- Site Planning
- Water Management
- Energy
- Material Use
- Indoor Environmental Quality
LEED address the complete lifecycle of buildings:

- Homes
- Neighborhood Development (in pilot)
- Commercial Interiors
- Core & Shell
- New Construction
- Schools, Healthcare, Retail
- Existing Buildings Operations & Maintenance

Building Lifecycle:
- Design
- Construction
- Operations

USGBC has four levels of LEED:
Commercial LEED Registered Projects (per year)

25,611* Total Currently Registered

* As of September 2009
Square Footage of Commercial LEED Certified Projects (cumulative, in millions)

* As of September 2009

613* million

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Green Building is an Industry Trend Not a Fad

- Residential: $12 billion in 2008, $60 billion in 2010
- Commercial: $10 billion in 2005, $60 billion in 2010

Green Buildings Can Reduce... 

Make the Grade

HIGH-PERFORMANCE LIGHTING

6.7%

INDIVIDUAL TEMPERATURE CONTROL

3.6%

ENHANCED PRODUCTIVITY

Plug Loads and LEED

Most energy codes and regulations do not consider the use of high efficiency plug loads and appliances.

LEED requires inclusion of all unregulated – plug and process – loads.

Encourages good design, equipment, and control through inclusion in the rating system.
Future of LEED

CTG’s LEED Credit Weighting Tool
analytically aligning credits and impact

What Is Green Building?
Future of LEED

Evolution to a DYNAMIC, PROJECT-SPECIFIC rating system

MEDIAN U.S. OFFICE BUILDING

Carbon Footprint

- Building Systems
- Transportation
- Water
- Materials
- Solid Waste
Future of LEED

Evolution to a DYNAMIC, PROJECT-SPECIFIC rating system

RURAL OFFICE BUILDING

Carbon Footprint

- Building Systems
- Transportation
- Water
- Materials
- Solid Waste
Future of LEED

Evolution to a DYNAMIC, PROJECT-SPECIFIC rating system

URBAN OFFICE BUILDING

Carbon Footprint

- Building Systems
- Transportation
- Water
- Materials
- Solid Waste
Green building market continues to grow despite the down economy.

LEED and the USGBC provide an unparalleled opportunity to connect with and drive the market for new plug and appliance regulations and technologies.
THANK YOU

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