



**meline engineering** specialists in sustainable energy systems

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## In the News

After 20 years, the USGBC has released version LEED 4.0 for its fifth round of public comment (March 1 -31, 2013). To review the proposed changes please click the link below:

[U.S. Green Building Council](#)

LEED 3.0 is current and will be viable through June 1, 2015.

## LEED Categories



### Proposed Categories for LEED 4.0:

1. *Location & Transportation (new)*
2. Sustainable Sites
3. Water Efficiency
4. Energy & Atmosphere
5. Materials & Resources
6. Indoor Environmental Quality
7. Innovation
8. Regional Priority

## LEED Green Rating System

The LEED Green Rating system is divided into the following groups and will include a few additional groups with the proposed LEED 4.0 version.

### Building Design and Construction (BD&C) includes:

- \* New Construction & Major Renovations
- \* Core & Shell Development
- \* Schools , Retail, Healthcare
- \* *Data Centers, Warehouse & Distributions Centers, Hospitality (new)*

### Operations & Maintenance (O&M)

- \* Existing Buildings Operation and Maintenance
- \* Existing Building, Retail and Schools
- \* *Data Centers, Warehouse & Distribution Centers, Hospitality (new)*

### Interior Design and Construction (ID&C)

- \* Commercial Interiors
- \* Retail

### Homes

### Neighborhood Development

## LEED Rating Levels



### The LEED Rating Levels will not change:

"Certified" 40-49 pts

"Silver" 50-59 pts

"Gold" 60-79 pts

"Platinum" 80 pts out of 100 total

## LEED Using ASHRAE 90.1 (2010)



LEED 4.0 will increase 'technical rigor' using ASHRAE 90.1 (2010) as a basis for Energy Efficiency. Below is a quick overview of *some* of the changes that are proposed with LEED 4.0.

**Integrated Project Planning and Design (1 point)** is a new prerequisite requirement for all categories except healthcare. This is basically a required 1-day design charrette. The intent is to support high-performance, cost-effective project outcomes through an early analysis of the interrelationships among systems.

**Location and Transportation (new category)** includes many items that used to be in Sustainable Sites. Includes quality transit, reduced parking footprint, low-emitting and fuel-efficient vehicles.

**Sustainable Sites** - prerequisite for a Phase 1 Environmental Site Assessment and Remediation to meet local, state, tribal and or federal standards.

**Water Efficiency** sustainable waste water management has been removed. Prerequisites include outdoor water use and process water requirement. An added requirement for water use and cooling towers from ASHRAE 189. Prerequisites also required both metric and imperial units and "Water Sense" label. A whole building water metering credit was also added as well as credit for irrigation water.

### Materials & Resources

Storage & collections of recyclables has been upgraded.

*Construction and Demolition Waste Management (new)*

**Energy and Atmosphere** is the most comprehensive section. It includes Advanced Metering Energy credit and a new credit for Demand Response.

Prerequisite 1 is that CxA is now required for buildings up to 20,000 sq. ft (drop from 50,000 sq. ft). The commissioning agent may be a 'qualified' member of the project team.

Prerequisite 2 requires buildings to comply with ASHRAE 90.1 (2010).

Prerequisite 3 requires that there be building level energy modeling (sub metering), utility owned meters, and that this information be shared with USGBC for 5 years.

Prerequisite 4 requires fundamental refrigerant management. All CFCs must be phased out prior to project completion.

*Note: USGBC is proposing that all LEED building efficiency and water efficiency data to be*

*shared.*

**Indoor Environmental Quality** - more sophisticated modeling and monitoring is proposed for LEED 4.0. Minimum acoustic performance has been added for schools. Increased ventilation rates are anticipated.

**Innovation in Design** - LEED Accreditation with Specialty must be on the team if their specialty is to be given credit (in their field) for "Innovation in Design." LEED AP will no longer be accepted.

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