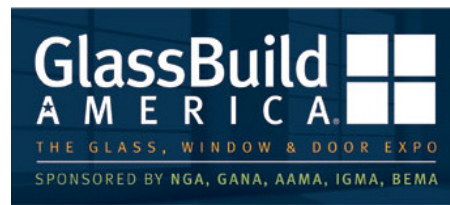




Regulation Overload



September 11, 2013



Rich Walker
President and CEO

**American
Architectural
Manufacturers
Association**





U.S. General Services Administration





Government Regulation

*More concerned than
2 years ago*

84%

*It's negatively
affecting business*

66%



Source: Multi-state CPA Poll, The University of Toledo Urban Affairs Center, January 2012



HR8 American Taxpayer Relief Act of 2012

Signed on January 3rd

Extended the 10% fenestration tax credit (25c) for ENERGY STAR qualified products *retroactively* from January 1, 2012 through December 31, 2013.



GSA

U.S. General Services Administration

Green Building Certification Systems Review

- Reviewing comments received on its evaluation green building certification systems.
- To provide a formal recommendation to the Secretary of Energy on appropriate green building certifications systems can be most effectively used by the Federal government to advance high performance in buildings.



GSA

U.S. General Services Administration

Green Building Certification Systems Review

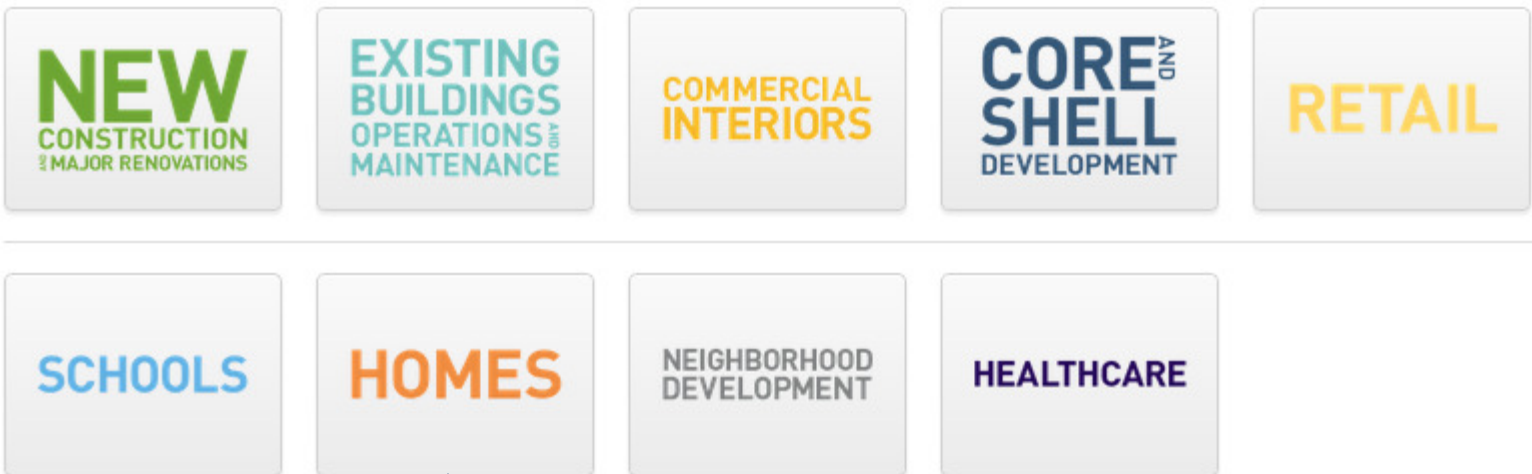
- Green Building Initiative's Green Globes
- U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED)
- International Living Building Institute's Living Building Challenge

Federal Register Notice: MG-2012-04

Comments Due: April 6, 2013

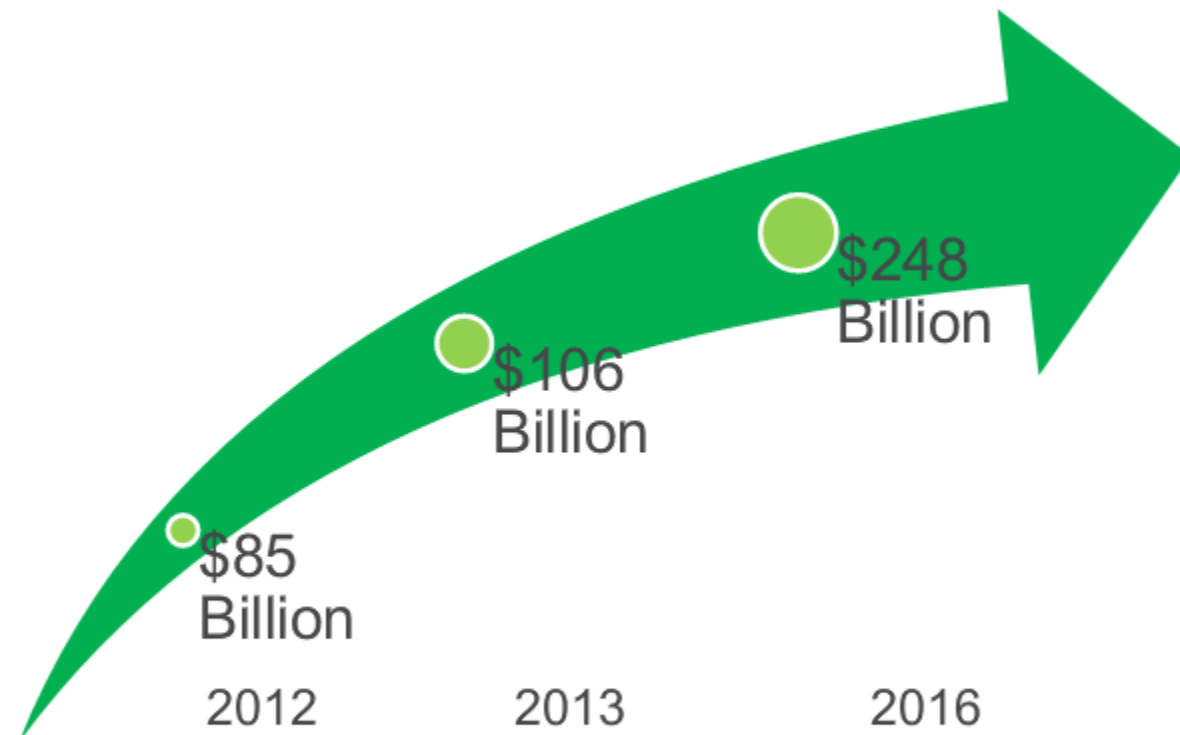


LEED RATING PROGRAMS





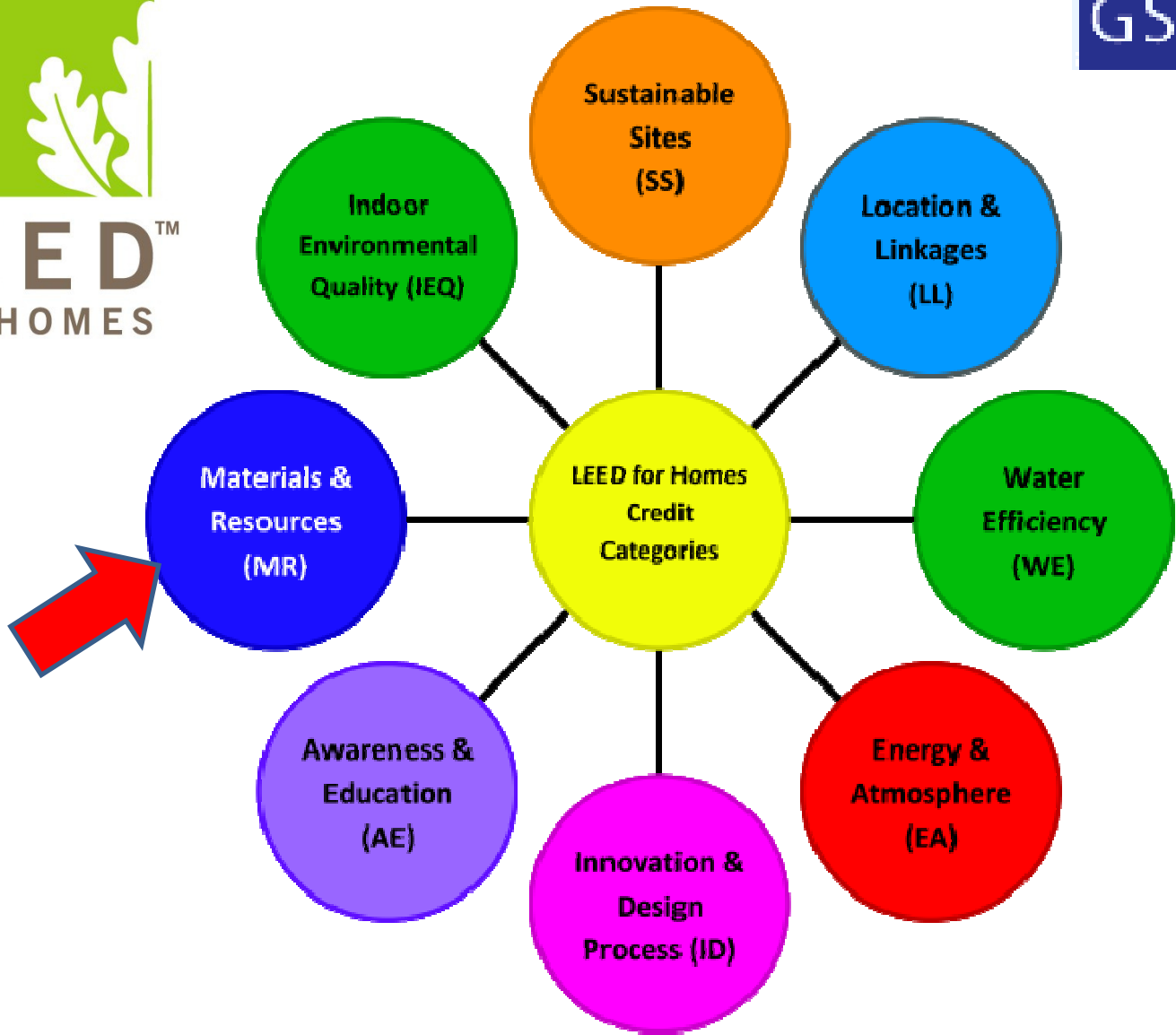
US Green Building Market



- 55% of all commercial buildings by 2016 (LEED or equivalent)
- 38% of all residential building by 2016 (LEED or equivalent)



LEED[™]
FOR HOMES





Building Product Disclosure & Optimization Material Ingredient Reporting” Credits

- Achieving 2 of the 3 credits requires certification
 - Cradle 2 Cradle
 - GreenScreen Health Product Declaration
 - Other USGBC approved programs meeting the material ingredient reporting criteria
- These programs currently red-list PVC and CPVC





Building Product Disclosure & Optimization Material Ingredient Reporting” Credits.

- Other arbitrary banned substances: (window frames)
 - Hexavalent chromium (aluminum treatment)
 - Approves Forest Stewardship Council wood (excludes SFI products).





U.S. General Services Administration

Green Building Certification Systems Review

- International Living Building Institute's Living Building Challenge

LIVING BUILDING CHALLENGE MISSION

To encourage the creation of Living Buildings, Landscapes and Neighborhoods in countries around the world while inspiring, educating and motivating a global audience about the need for fundamental and transformative change.



GSA

U.S. General Services Administration



The Living Building Challenge
In Pursuit of True Sustainability in the Built Environment



Draft Version 1.2
April 2007



U.S. General Services Administration

Green Building Certification Systems Review

- Institute's Living Building Challenge **RED LIST**

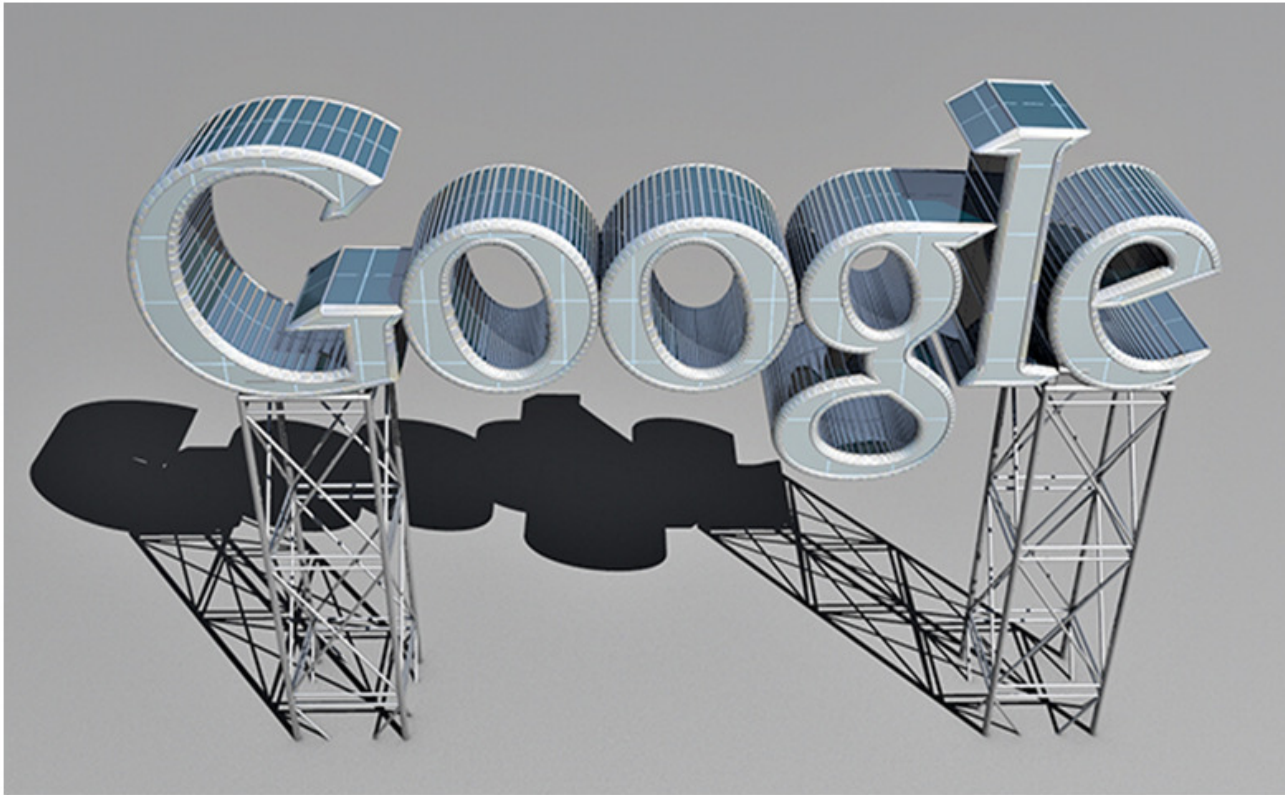
The project cannot contain any of the following materials or chemicals:

1. Asbestos
2. Cadmium
3. Chlorinated Polyethylene and Chlorosulfonated Polyethylene
4. Chlorofluorocarbons (CFCs)
5. Chloroprene (Neoprene)
6. Formaldehyde (added)
7. Halogenated Flame Retardants
8. Hydrochlorofluorocarbons (HCFCs)
9. Lead (added)
10. Mercury
11. Petrochemical Fertilizers and Pesticides
12. Phthalates
13. Polyvinyl Chloride (PVC) ←
14. Wood treatments containing Creosote, Arsenic, Pentachlorophenol

Google Avoids 'Red List' Building Materials

July 7, 2011

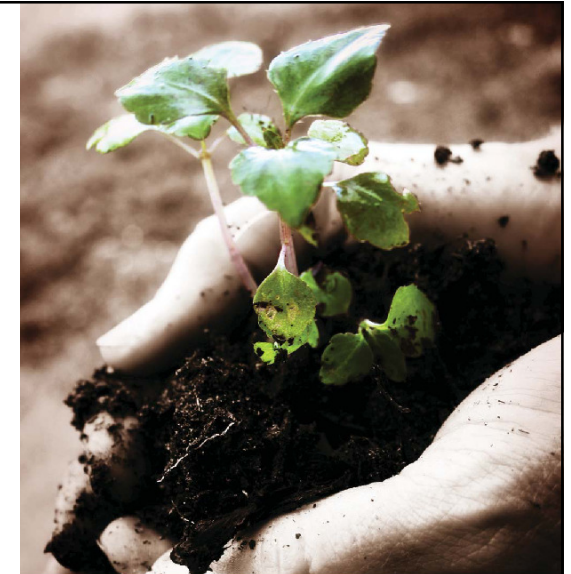
Share  Follow us on Twitter  Become a Fan on Facebook 



For a company that uses giant amounts of energy with all its servers scattered worldwide, seeking for a smaller and greener carbon footprint is a mandatory task. That's why aside from vesting some of its resources into clean energy efforts, the internet giant announced last month that it would no longer use any of the construction listed on the Living Building Challenge's "red list."

The red list is a list of materials used in construction that include components made from products such as mercury, asbestos, PVC, formaldehyde and lead – materials which provide poor indoor air quality. These materials also come from extraction of materials/processing from raw materials which has a large environmental toll.

Google is reported to be opening office spaces at a rate of 40,000 square feet per week and with this announcement, they definitely deserve our green thumbs up.



The Living Building Challenge
In Pursuit of True Sustainability in the Built Environment

Crédit Version 1.2
April 2007





Avoiding Toxic Chemicals in Commercial Building Projects

A Handbook of Common Hazards
and How to Keep Them Out

Published by BuildingGreen, Inc.

Windows



- Aluminum-clad wood windows
- Fiberglass windows

Spec this
Not that

- Vinyl or vinyl-clad windows

Reality Check

↙ \$\$
Performance issues Budget buster

GREENSPEC

- Loewen wood windows
- Marvin Integrity fiberglass windows
- Bieber wood Passivhaus windows

Vinyl and vinyl-clad wood windows are made with problematic **PVC**. Although the rigid vinyl used for these windows does not contain phthalate plasticizers (one of the key health issues with PVC), there are considerable environmental risks associated with PVC manufacture and disposal. Aluminum is inert, but it's hard to find aluminum windows that have really effective thermal breaks in the frame. Fiberglass windows are durable and inert in use, but keep in mind that the polyester resins used to bind the glass fibers are hazardous during manufacturing. The lowest-toxicity option with reasonable energy performance is wood, ideally with aluminum cladding to avoid the need for regular maintenance with potentially hazardous coatings.

→ *“...there are considerable environmental risks associated with PVC manufacture and disposal.”*

Learn More “Choosing Windows: Looking Through the Options,” *Environmental Building News* Feb. 2011. | *Better Window Decisions: Mastering the Performance and Cost Options*



S. 1392 (Shaheen/Portman) Energy Savings and Industrial Competitiveness Act



GREEN BUILDINGS AMENDMENT

- *Allow the use of multiple green building rating systems.*

Giving the government a clear set of options, improving competition and allowing choice will save unnecessary expenditures and help produce the best energy efficient buildings at the lowest costs.

- *Protect American industries from arbitrary decision making and extra-regulatory controls of building materials and products:*

- *Green criteria to be based on science* (not presupposition or opinion) so that criteria are technology, brand, product, and material neutral



“Made in USA”



- Guidance released **February 4, 2013**
- **Examples**
 - Made in USA
 - Our products are American-made
 - USA



“Made in USA”



- Contain no — or negligible — foreign content
- Final assembly or processing must be in the U.S.
- Using U.S. symbols, such as the flag or location of a company’s headquarters, could imply a claim of U.S. origin



“Made in USA”



- FTC has the power to bring law enforcement actions against false or misleading claims that a product is of U.S. origin
- The Act applies to any U.S. origin claims that appear on products and labeling, advertising and other promotional materials, along with electronic marketing

MSDS to SDS

- The Hazard Communication Standard (HCS) requires **chemical manufacturers, distributors, or importers** to provide **Safety Data Sheets (SDSs)** (formerly known as Material Safety Data Sheets or MSDSs) to communicate the hazards of hazardous chemical products.
- As of **June 1, 2015**, the HCS will require new SDSs to be in a **uniform format**, and **include 16 mandatory sections**.
www.osha.gov/dsg/hazcom/index.html

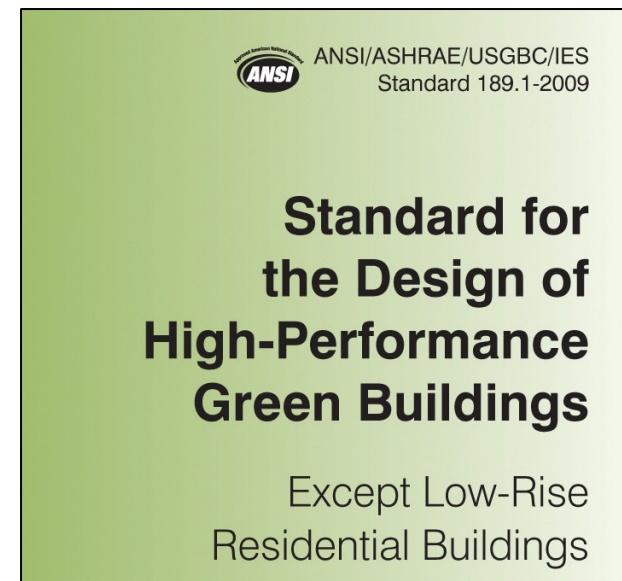
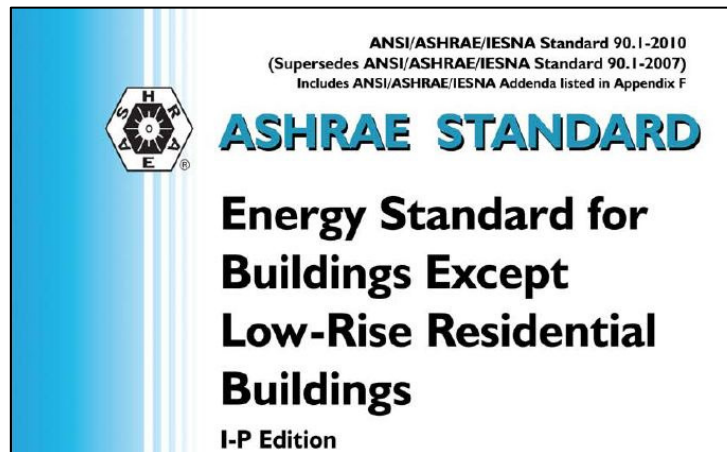




Window to Wall Ratios *Limiting Glazing Area*



- Reduce window to wall ratio from 40% to 30%
- Blocked once in 2001 (ASHRAE 90.1)
- Resurfaced in ASHRAE 189.1 Addendum





Residential LRRP **FLAWS**

Lead Remodeling and Repair Program

- Target population opt out (children, women)
 - NRDC, Sierra Club lawsuit
 - 37.6 to 77.8 million homes
 - \$507 million in compliance costs in 1st year
- Opt out Unreliable Lead Test kits
 - 40% false positives
- Cost estimate
 - \$35 per home vs \$121 per opening
- Lead level basis declining
- Dissemination of information

HOME RENOVATION EXPENDITURES

Confirmed CBLLs

