

Update on US Green Building Policies

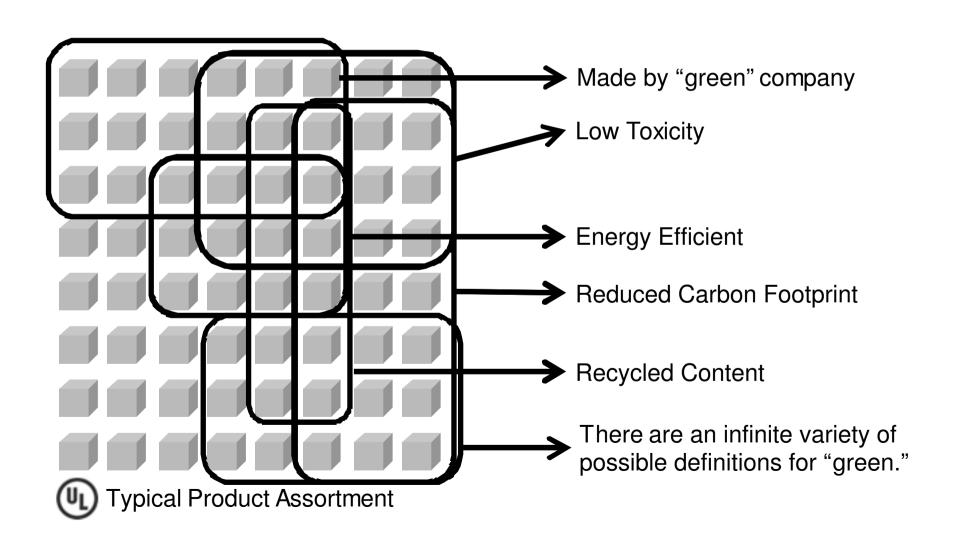
41st APEC EGEE&C Meeting Beijing, China April 11, 2013 Buildings consume approximately 40 % of the world's energy 12% of the world's potable water ...and account for

more than 1/3

of the world's greenhouse gas emissions



What does "Green" mean?



Green Buildings Moving Towards Tipping Point

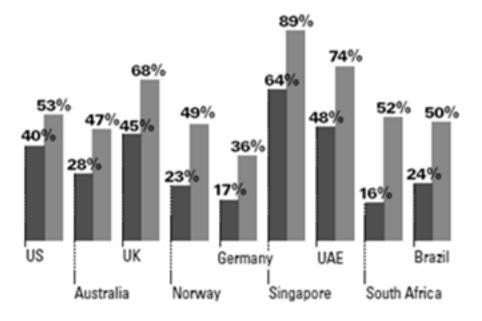
Levels of Green Building Activity by Firms Around the World (2009–2015 Expected)

Source: McGraw-Hill Construction, 2013 1% to 15% More than 60% Green Projects **Green Projects** 31% to 60% Exploring (No Green Green Projects Involvement) 16% to 30% **Green Projects** 51% 28% 30% 13% 20% 11% 2% 10% 17% 13% 2009 2012

Percentage of Firms With More Than 60% of Work Green (2012 and Expected for 2015)

Source: McGraw-Hill Construction, 2013

2012 2015





US Federal Government Policy

Requires Government to Walk-the-Talk

- E.O. 13514: Federal Leadership in Environmental, Energy and Economic Performance
- Section 433 of the Energy Independence and Security Act, EISA 2007
- Government review of green building rating systems
 - One size does NOT fit all

 US Government now >1,000 certified green building projects, >100 million sf



Better Building Initiative - DOE

- Launched in 2011 by President Obama
- Goal is to make commercial and industrial buildings 20% more energy efficient by 2020
- DOE Commercial Building Energy Asset Score

www.energy.gov/better-buildings

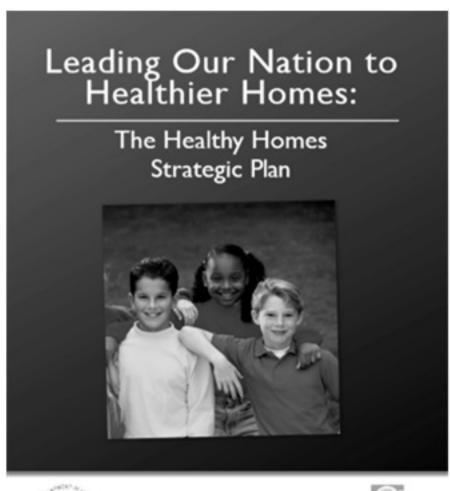




Advancing Healthy Housing

Healthy Home:

- Dry
- Clean
- Pest-free
- Contaminant-free
- Well-ventilated
- Well-maintained
- Appropriately thermally-controlled
- Green technologies, better indoor air quality, energy efficient are part of pathway to achieve a healthy home







U.S. Department of Housing and Urban Development Office of Healthy Homes and Lead Hazard Control



SAFETY IS EVOLVING, SO IS UL.





Enhancing safe living and working environments for people worldwide

FOCUS:

- Chemical Emission Testing and Analytics
- Product and Company Certification and Validation
- Sustainability Services







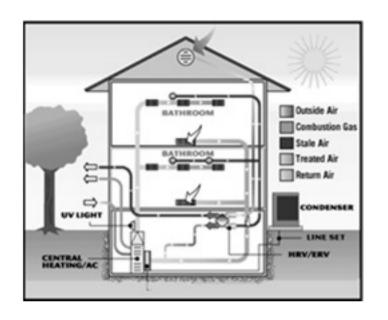


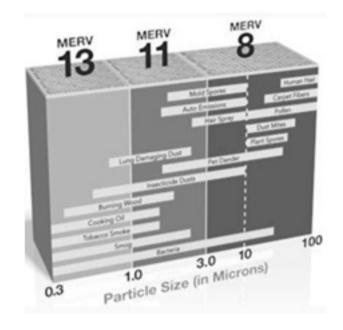


Air pollutants are 2-5X higher inside than outside



Ventilation, Filtration, Source Control









Source Control?

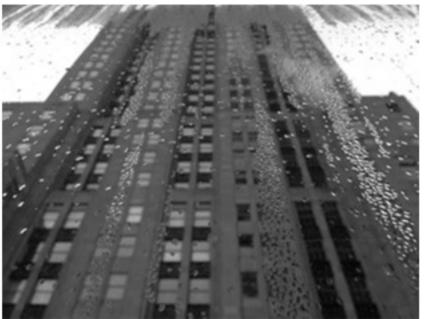


Questions and Answers

Thank You

Derek Greenauer Global Government Affairs Manager







ASSET VALUE

- Studies show a pattern of green buildings being able to more easily attract tenants and to command higher rents and sale prices.
- Local market conditions have a significant impact on the value of green buildings.
- In markets where green is more mainstream, 'brown discounts' are emerging.



OPERATING COSTS

- Green buildings can save money through reduced energy and water consumption and lower longterm operations and maintenance costs.
- Energy savings typically exceed any build cost premiums within a reasonable payback period.



WORKPLACE PRODUCTIVITY AND HEALTH

- Evidence shows that green design attributes can improve occupant productivity, health and well-being.
- Investing in better indoor environments can lead to better returns on one of every company's greatest assets - its employees.



RISK MITIGATION

- Sustainability risk factors can significantly affect rental income and the future value of real estate assets, in turn affecting their ROI
- Changing tenant preferences and investor risk screening may translate into risk of obsolescence for inefficient buildings

