



GREEN BUILDING FACTS

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Green Building by the Numbers

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The value of green building construction starts exceeds \$12 billion in 2008 and is projected to increase to \$60 billion by 2010. (Source: McGraw-Hill Construction Analytics, SmartMarket Trends Report 2008)

The construction market accounts for 14.2% of the \$10 trillion U.S. GDP (Source: 2006 DOE Buildings Energy Data Book).

By 2009, 80% of corporate America is expected to be engaged in green at least 16% of the time, and 20% will be engaged in green 60% of the time (Source: McGraw Hill Construction, Greening of Corporate America SmartMarket Report, 2007).

U.S. Green Building Council:

Membership

- 14,624 member organizations including corporations, governmental agencies, nonprofits and others from throughout the industry.
- 91,000 actively engaged individuals.
- Since 2000, USGBC's membership has increased ten-fold.

LEED® Green Building Rating System™

- The LEED for New Construction rating system was first released in 2000.
- LEED for Commercial Interiors and Existing Buildings became available in 2004 to address the tenant market and the operations and maintenance of existing buildings.
- LEED for Core & Shell became available in July 2006 for spec developments.
- LEED for Homes was launched in December 2007.
- LEED for Neighborhood Development, Retail and Healthcare are currently in pilot test.
- *Nearly 3.2 billion square feet* of commercial building space are involved with the LEED Green Building Rating System.
- By 2010, approximately 10% of commercial construction starts are expected to be green, according to McGraw Hill Green Building Smart Market Report 2006.
- Every business day, \$464 million worth of construction registers with LEED.

	New Construction	Commercial Interiors	Existing Buildings	Core & Shell	Neighborhood Development	Schools	Retail	Total
LEED Registered Projects	6442	1001	979	1341	234	227	86	10,310
Certified Projects	980	216	70	59			2	1,327

- There are LEED projects in all 50 states and 67 countries.
- Owners of LEED-registered and certified projects represent a diverse cross-section of the industry.

Education & Accreditation

- LEED workshop attendance: 74,362
- LEED Accredited Professionals: 49,762
- Greenbuild Attendees 2007: 22,835
- Greenbuild Attendees 2006: 13,382

Size and Impact of the U.S. Built Environment

Construction yields an annual output of U.S. \$4.6 trillion, contributing to 8-10% of the global Gross Domestic Product encompassing a workforce of 120 million people and billions of transactions each day. *Source: Asia Construct, Euro Construct and National Statistics, 2006.*

Comprises 14.2% of the \$10 trillion U.S. GDP. This includes all commercial, residential, industrial and infrastructure construction. Commercial and residential building construction constitutes 9% of the GDP. *Source: 2006 U.S. DOE Buildings Energy Data Book.*

Energy consumption

- Buildings represent 39% of U.S. primary energy use (includes fuel input for production). *Source: 2003 U.S. DOE Buildings Energy Data Book.*
- Buildings are one of the heaviest consumers of natural resources and account for a significant portion of the greenhouse gas emissions that affect climate change. In the U.S., buildings account for 39% of all CO2 emissions. *Source: EIA Annual Energy Review 2005. U.S. Energy Information Administration, U.S. Department of Energy.*

Electricity consumption

- Buildings represent 70% of U.S consumption. *Source: 2003 U.S. DOE Buildings Energy Data Book.*

Water use:

- Buildings use 12.2% of all potable water, or 15 trillion gallons per year. *Source: U.S. Geological Service, 1995 data.*

Materials use:

- Buildings use 40% of raw materials globally (3 billion tons annually). *Source: Lenssen and Roodman, 1995, "Worldwatch Paper 124: A Building Revolution: How Ecology and Health Concerns are Transforming Construction," Worldwatch Institute.*

Waste:

- The EPA estimates that 136 million tons of building-related construction and demolition (C&D) debris was generated in the U.S. in a single year. *Source: <http://www.epa.gov/epaoswer/non-hw/debris/about.htm>, and U.S. EPA Characterization of Construction and Demolition Debris in the United States, 1997 Update.*
- Compare that to 209.7 million tons of municipal solid waste generated in the same year. *Source: U.S. EPA Characterization of Municipal Solid Waste in the United States, 1997 Update. Report No. EPA530-R-98-007*

Sectors Expected to Have Green Building Growth

- Education 64%
- Government 62%
- Institutional 53%
- Office 49%
- Healthcare 45%
- Hospitality 21%
- Retail 20%

Source: McGraw Hill Construction 2007.

The three largest segments for nonresidential green building construction —office, education and health care—will account for more than 80 percent of total nonresidential green construction in 2008. *Source: FMI's 2008 U.S. Construction Overview.*

What's Driving Green Building

These factors are expediting the growth of green building:

1. Unprecedented level of government initiatives
2. Heightened residential demand for green construction
3. Improvements in sustainable materials.

Source: FMI's 2008 U.S. Construction Overview.