



# LEED Update

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U.S. Green Building Council

# 220,000

PROJECTS ARE CURRENTLY  
PARTICIPATING IN LEED<sup>®</sup>,  
COMPRISING MORE THAN

**10.4** BILLION SQ.  
FT.

OF CONSTRUCTION SPACE



1.5 MILLION

square feet certifies to LEED<sup>®</sup>  
**EACH DAY**



# LOCAL GOVERNMENT PROJECTS

**1,600** LEED®  
CERTIFIED PROJECTS  
REPRESENTING **135**  
MILLION SQ. FT.

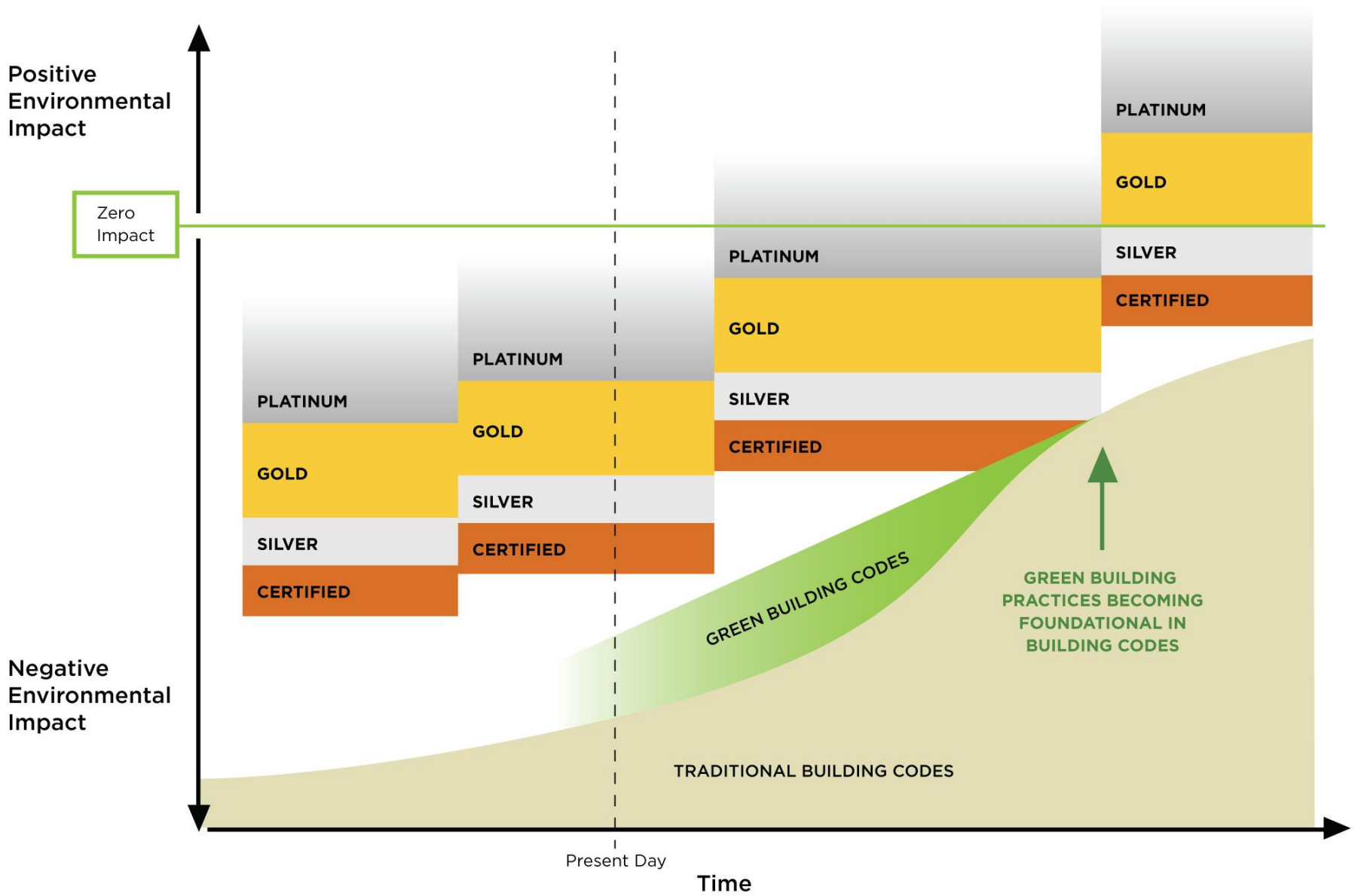
**2,550** REGISTERED  
PROJECTS  
REPRESENTING **307**  
MILLION SQ. FT.



CITY OF LOS ANGELES - FIRE STATION 36  
SAN PEDRO, CA  
LEED CERTIFIED

# CREATIVE TENSION









NAVY'S ENERGY & SUSTAINABLE  
DEMONSTRATION FACILITY  
PORT HUENEME, CA  
LEED GOLD - NEW CONSTRUCTION

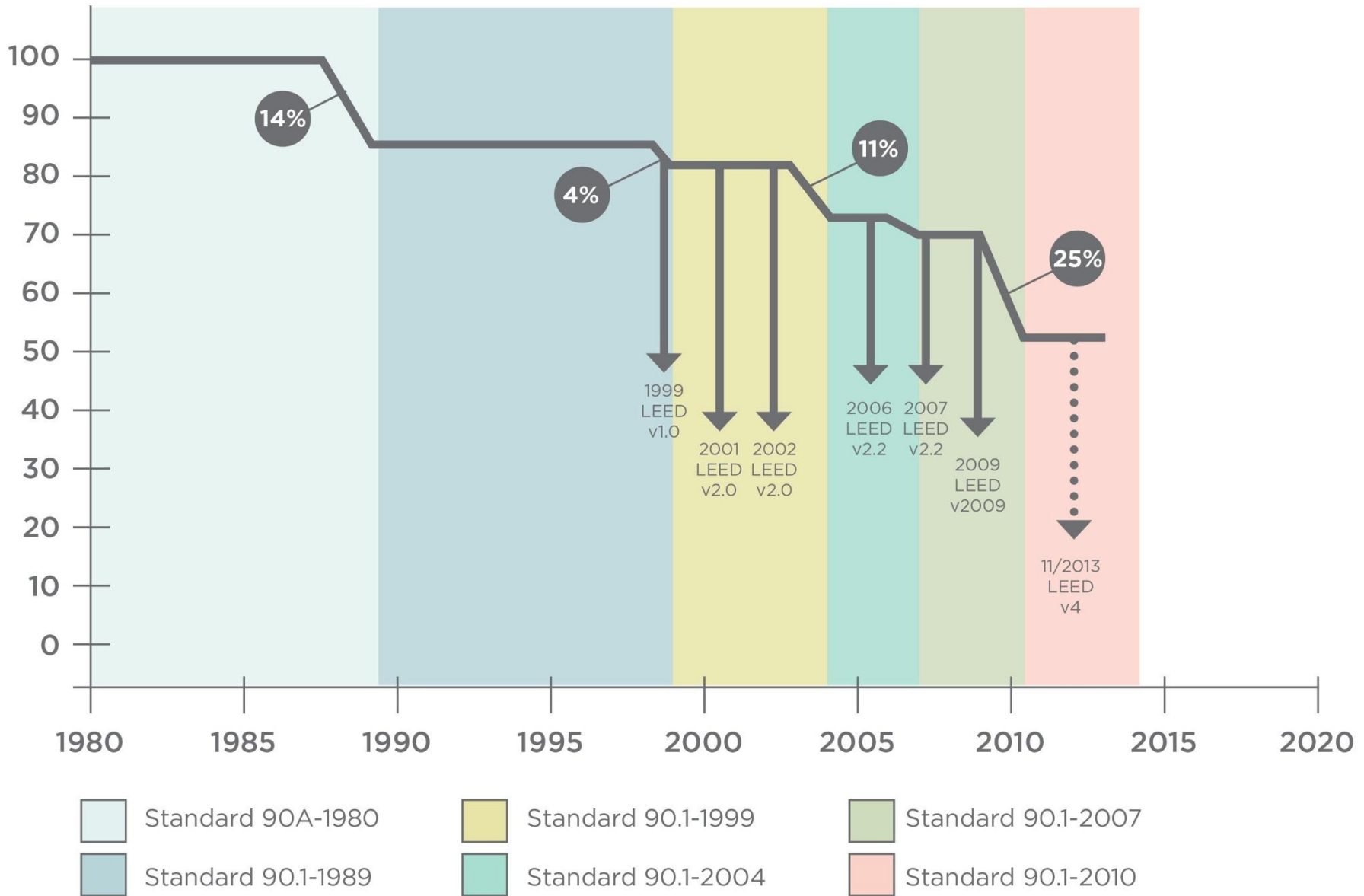
# GOVERNMENT LEED® POLICIES AND INITIATIVES

**14** FEDERAL AGENCIES  
OR DEPARTMENTS

**30+** STATES

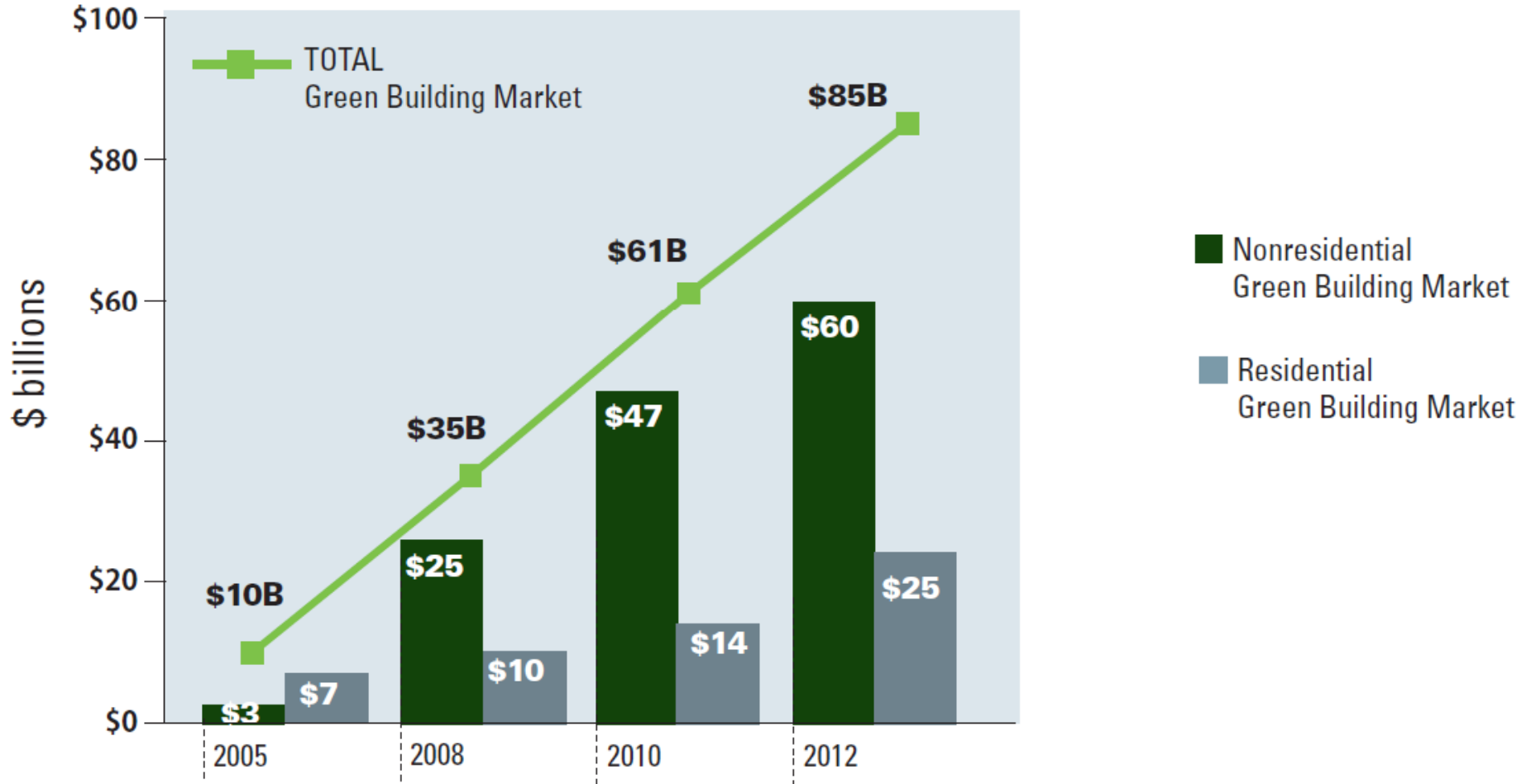
**400+** LOCALITIES

# Energy Codes and LEED Requirements



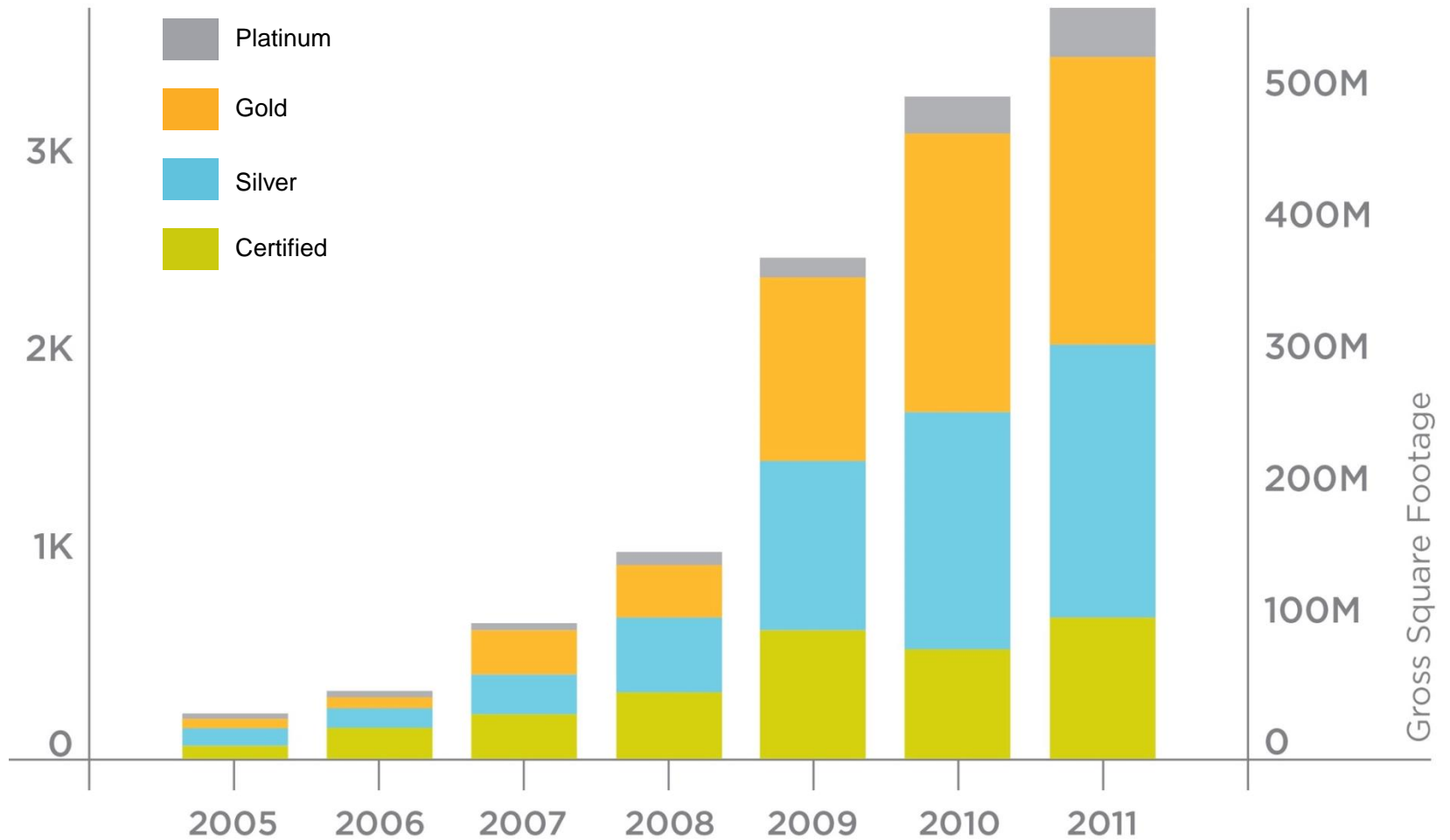


# GREEN BUILDING MARKET



Source: McGraw-Hill Construction's 2013 Dodge Construction Green Outlook

# CERTIFICATION TRENDS



LEED v4:  
**FOCUS ON  
PERFORMANCE**

# HOW HAS LEED IMPROVED FOR v4?

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INCREASED **TECHNICAL RIGOR**

INCREASED PERFORMANCE **THRESHOLDS**

ESTABLISHED RATING SYSTEM **ALIGNMENT**

IMPROVED PROJECT **TEAM EXPERIENCE**

**STREAMLINED** SERVICES

IMPROVED **DOCUMENTATION**



# LEED v4 SYSTEM GOALS



Reduce contribution to **global climate change**



Enhance individual **human health**



Protect and restore **water resources**



Protect and enhance **biodiversity and ecosystem services**



Promote **sustainable and regenerative** material cycles

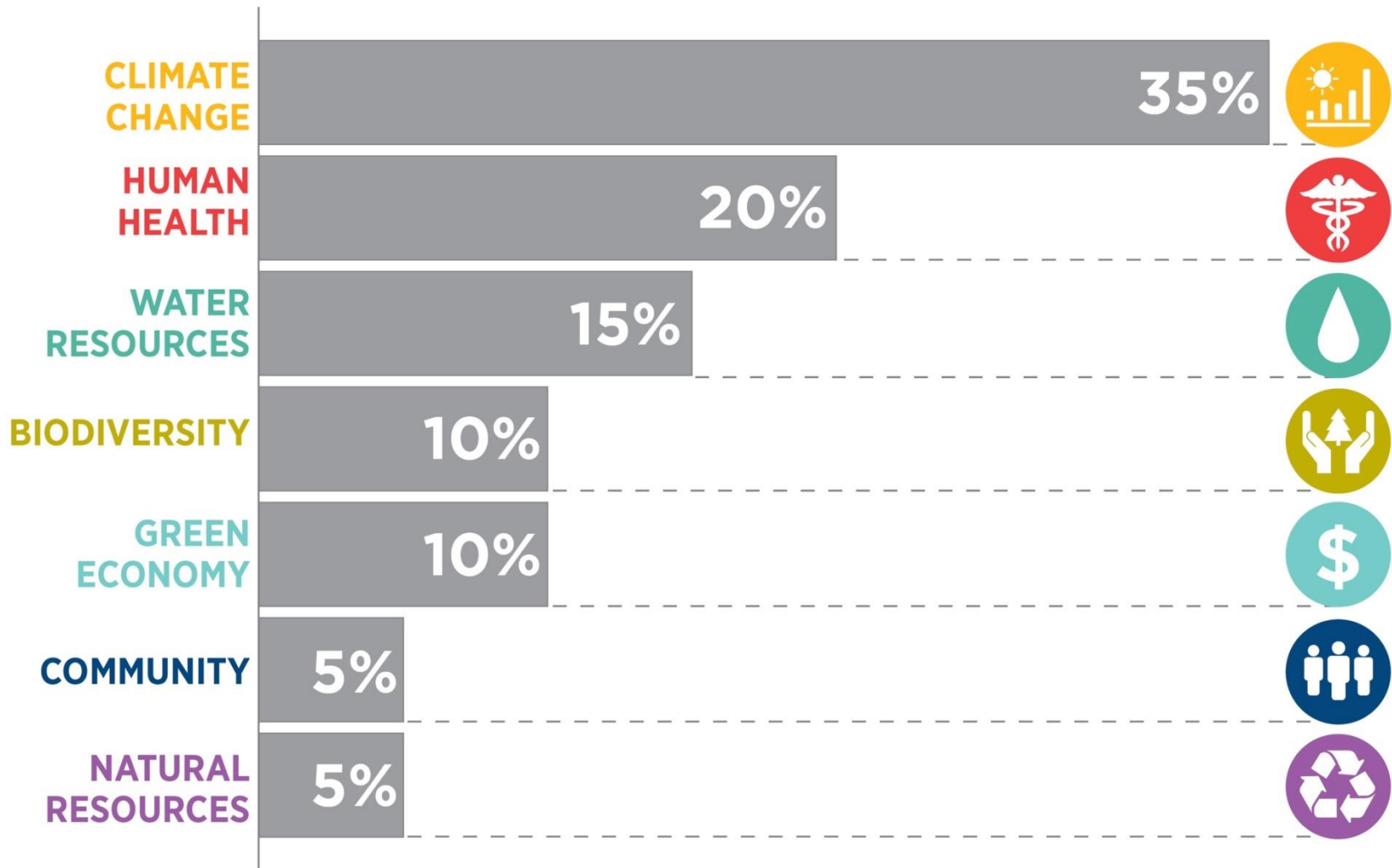


Build a **green economy**



Enhance **community quality of life**

# LEED v4 SYSTEM GOALS



# What hasn't changed

100 point based system

Regional Priority credits

Pilot credits

LEED AP credential



# What's changed



Added new credit category

Addresses 21 market sectors

Includes international in requirements

Focused on performance





# LEED v4 TECHNICAL IMPROVEMENTS: LOCATION & TRANSPORTATION

## Highlights

**New credit category** to improve alignment between commercial rating systems and LEED ND.

More performance-based credits with **improved ties to anticipated outcome.**

bicycle facilities [link to bike network]

quality transit [trip frequency, walking distance]



## LEED v4 TECHNICAL IMPROVEMENTS: SUSTAINABLE SITES

### Highlights

New credit for **site assessment**.

**Financial support option** in protect or restore habitat.

**Major simplification** to Light Pollution Reduction credit through new option for BUG rated equipment.



## LEED v4 TECHNICAL IMPROVEMENTS: WATER EFFICIENCY

### Highlights

Addressing **all water uses** including fixtures & fittings, process, appliance, cooling towers, and outdoor water.

Focus on measuring water use through **fundamental** building metering requirements.

Additional points in credit for **metering of subsystems.**



## LEED v4 TECHNICAL IMPROVEMENTS: ENERGY & ATMOSPHERE

### Highlights

**Minimum Energy Performance:** five percent above ASHRAE 90.1-2010; minimum ENERGY STAR score now 75.

**New credit** for Demand Response.

Building level **energy metering** required for all projects.





## LEED v4 TECHNICAL IMPROVEMENTS: MATERIALS & RESOURCES

### Highlights

**Life cycle thinking approach** to category.

Optional **whole building life cycle assessment** for new construction.

Focus on product **transparency** and **outcomes** through Building Disclosure & Optimization credits.



# LEED v4 TECHNICAL IMPROVEMENTS: INDOOR ENVIRONMENTAL QUALITY

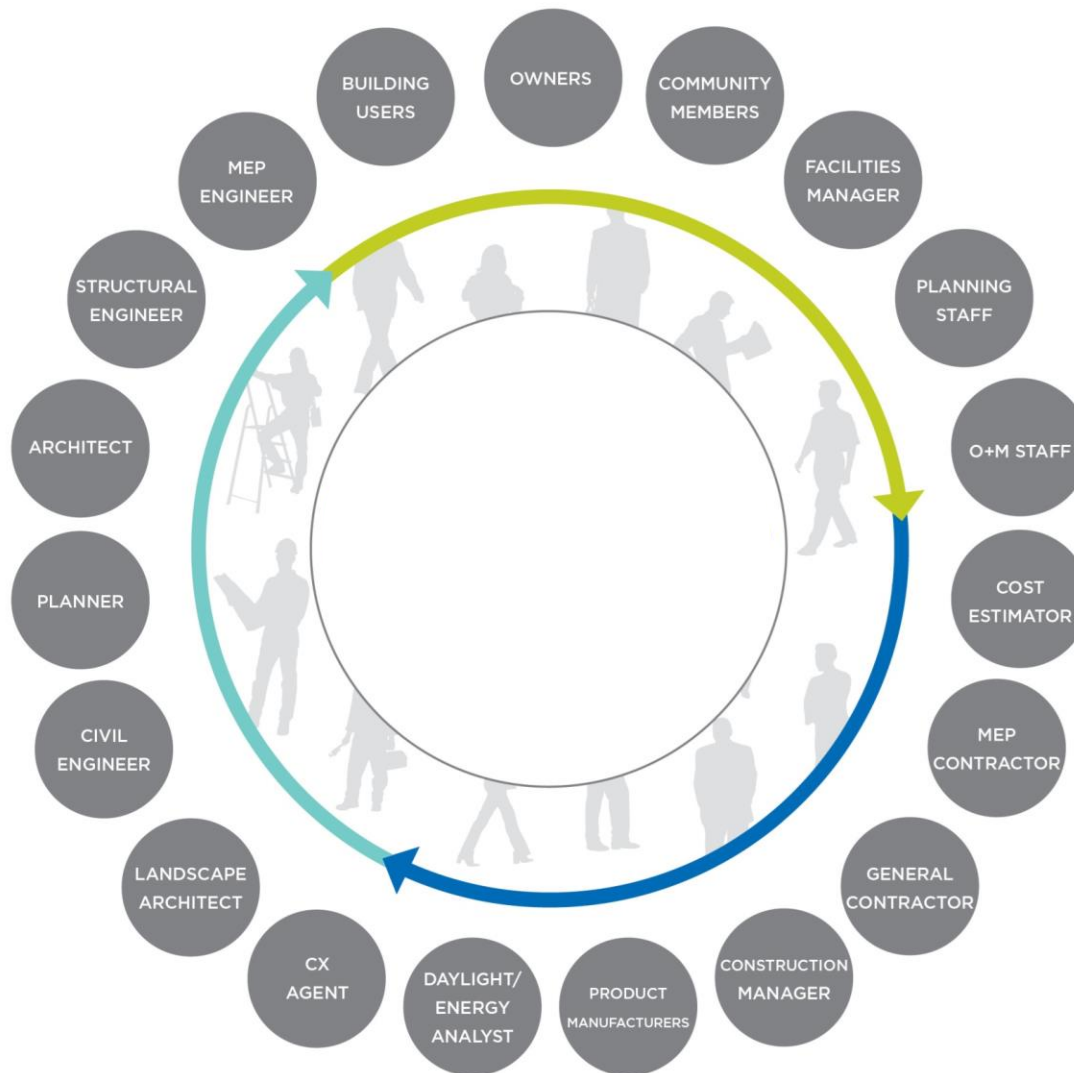
## Highlights

Category focused on key indicators of **ventilation, lighting, acoustics, and occupant experience.**

More **performance-based credits** focused on health and wellbeing outcomes.

**Emissions** based approach to materials.

# INTEGRATIVE PROCESS



# GLOBAL ADAPTATIONS



LEED v4:  
**ONE GLOBAL LEED**

# MARKET SECTOR ADAPTATIONS



Data Centers



Warehouses and Distribution Centers



Hospitality



Existing Buildings for Schools



Existing Buildings for Retail



Homes Multifamily Midrise

# SIMPLIFIED: THE STRUCTURE OF EB:O&M

## ESTABLISHMENT

static and foundational

### ASSETS

meters, lighting, landscaping

### POLICIES

site management, purchasing

## PERFORMANCE

dynamic and recurring

### ACTIONS

surveys, audits, testing

### TRACKING

energy, purchasing, waste



LEED v4:  
**IMPROVED USER  
EXPERIENCE**

# REFERENCE GUIDE



# LEED DOCUMENTATION

**Fewer Forms.** Reduced forms by 80% compared to LEED 2009 to improve system performance and consistency.

Alignment across rating systems

Includes campus, multiple building, recertification

**Fewer fields to document.** Removed low-value documentation requirements.

Removed required signatories

Removed duplication of content

# LEED CREDIT LIBRARY

The screenshot displays the LEED Credit Library website. At the top, there is a navigation bar with links for COMMUNITY, LEED, ADVOCACY, and INITIATIVES. To the right of these links are links for Articles, Directory, Courses, Resources, Store, Help, and a SIGN IN button. Below the navigation bar is the LEED logo, which includes the U.S. Green Building Council (USGBC) seal. A search bar labeled "Search the site" is positioned to the right of the logo. Below the logo, there are links for Why LEED, Rating systems, Certification, Project Tools, and Credentials, along with a CREDIT LIBRARY button. The main content area features a "FILTER CREDITS" section with a dropdown menu set to "New Construction" and another dropdown set to "v4 draft". Below this is a "SMART FILTERS" section with a "Search credits" input field. Underneath the search field are radio buttons for "Match all results" (selected) and "Match any results". A search filter is shown with "Name" selected, the operator "contains", and an empty input field. There are "Clear filters" and "APPLY" buttons. The search results list includes "Integrative process" (IPc1 | 1 point) and "LEED for Neighborhood Development location" (LTc1 | Up to 16 points).

LEED v4:

**WHERE ARE WE NOW?**

# LEED v4: CURRENT STATUS

Held six public comment periods and received over **22,000 comments**

Passed ballot in **June 2013** with 86% approval

**Extended** registration for LEED 2009 until June 2015

Engaged over 100 project teams in LEED v4 **beta** test

Program launched at Greenbuild in **November 2013**



[usgbc.org/leedv4](https://usgbc.org/leedv4)