



LEED Update

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U.S. Green Building Council

220,000

PROJECTS ARE CURRENTLY
PARTICIPATING IN LEED[®],
COMPRISING MORE THAN

10.4 BILLION SQ.
FT.

OF CONSTRUCTION SPACE



1.5 MILLION

square feet certifies to LEED[®]
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



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

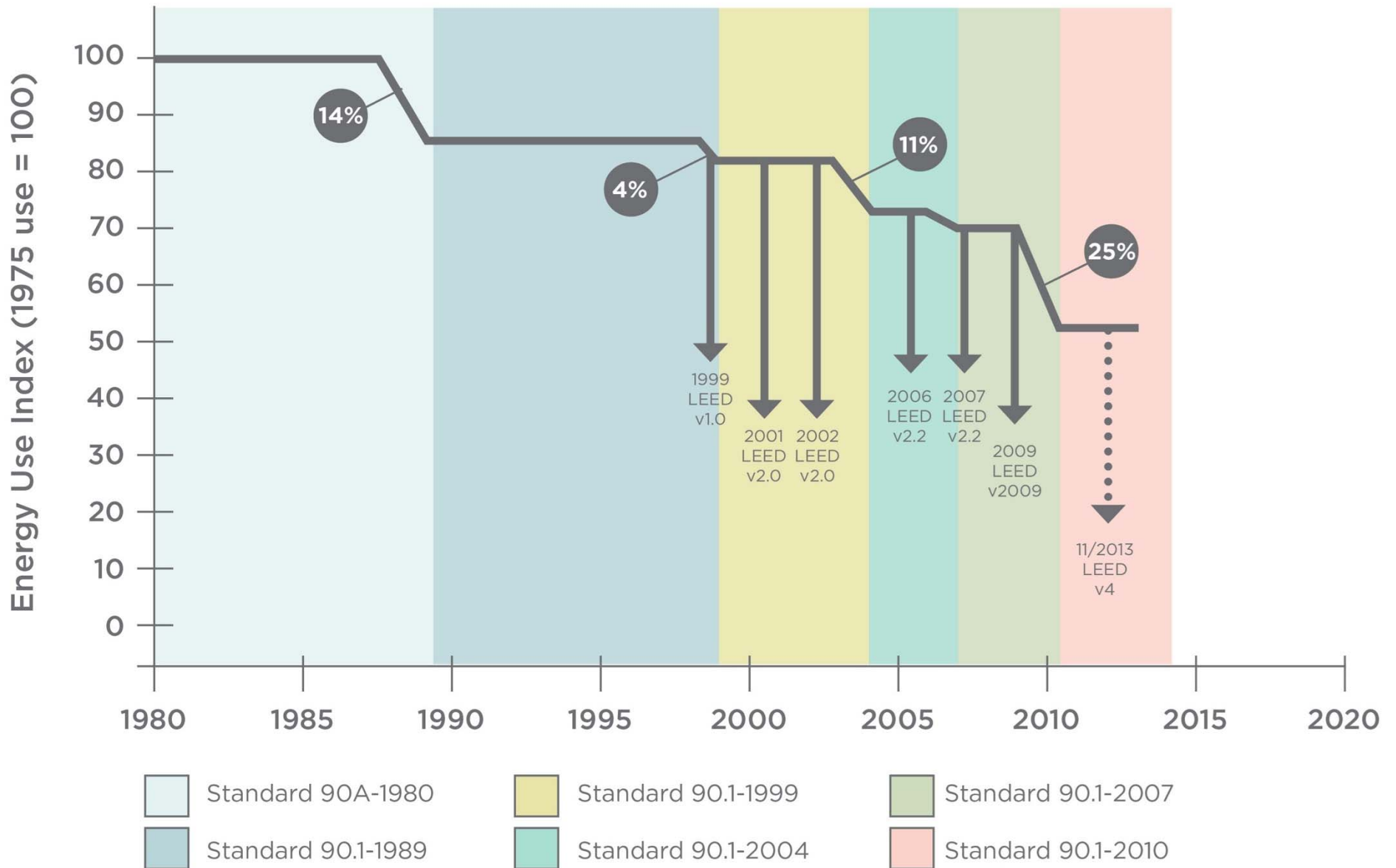
GOVERNMENT LEED® POLICIES AND INITIATIVES

14 FEDERAL AGENCIES
OR DEPARTMENTS

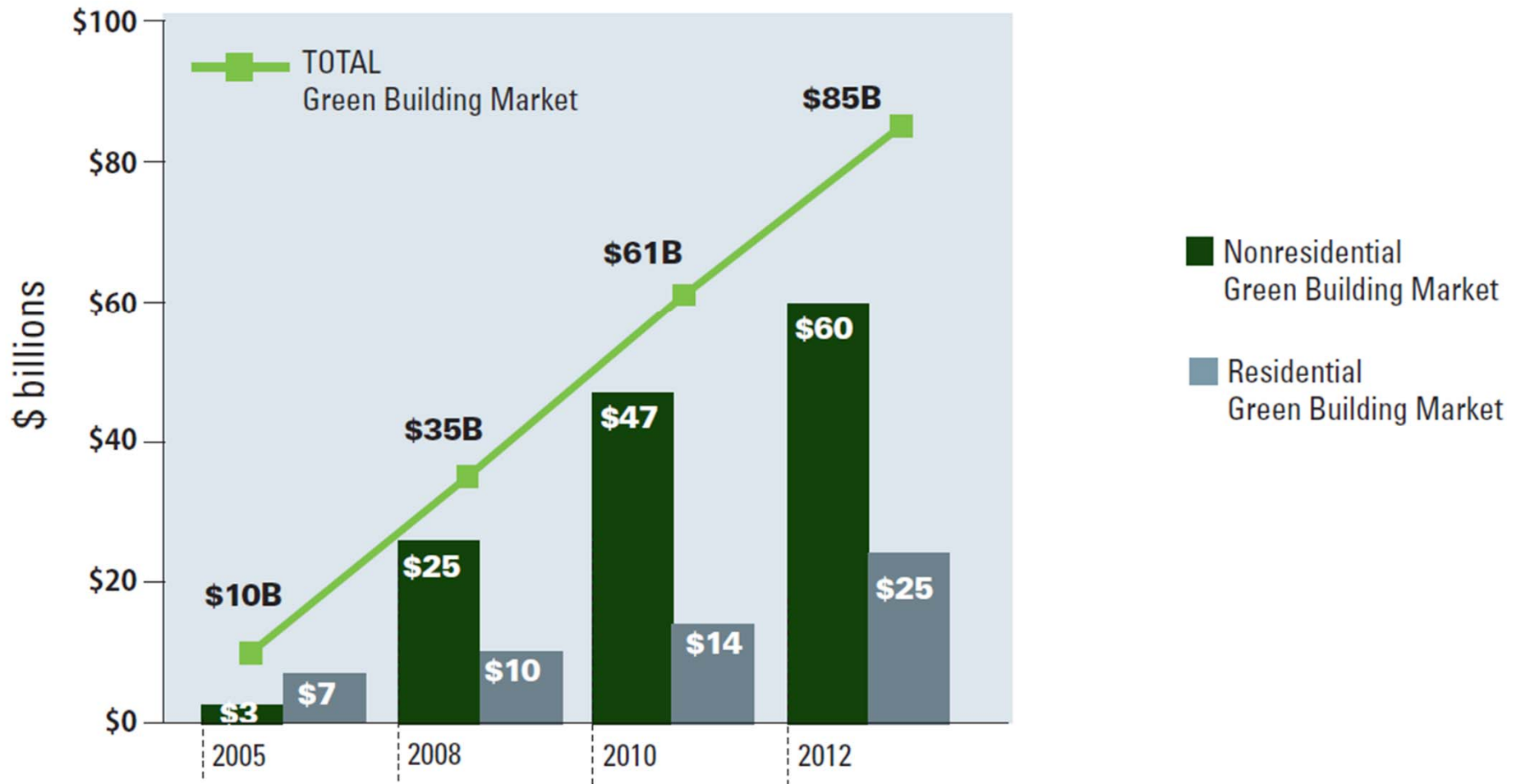
30+ STATES

400+ LOCALITIES

Energy Codes and LEED Requirements

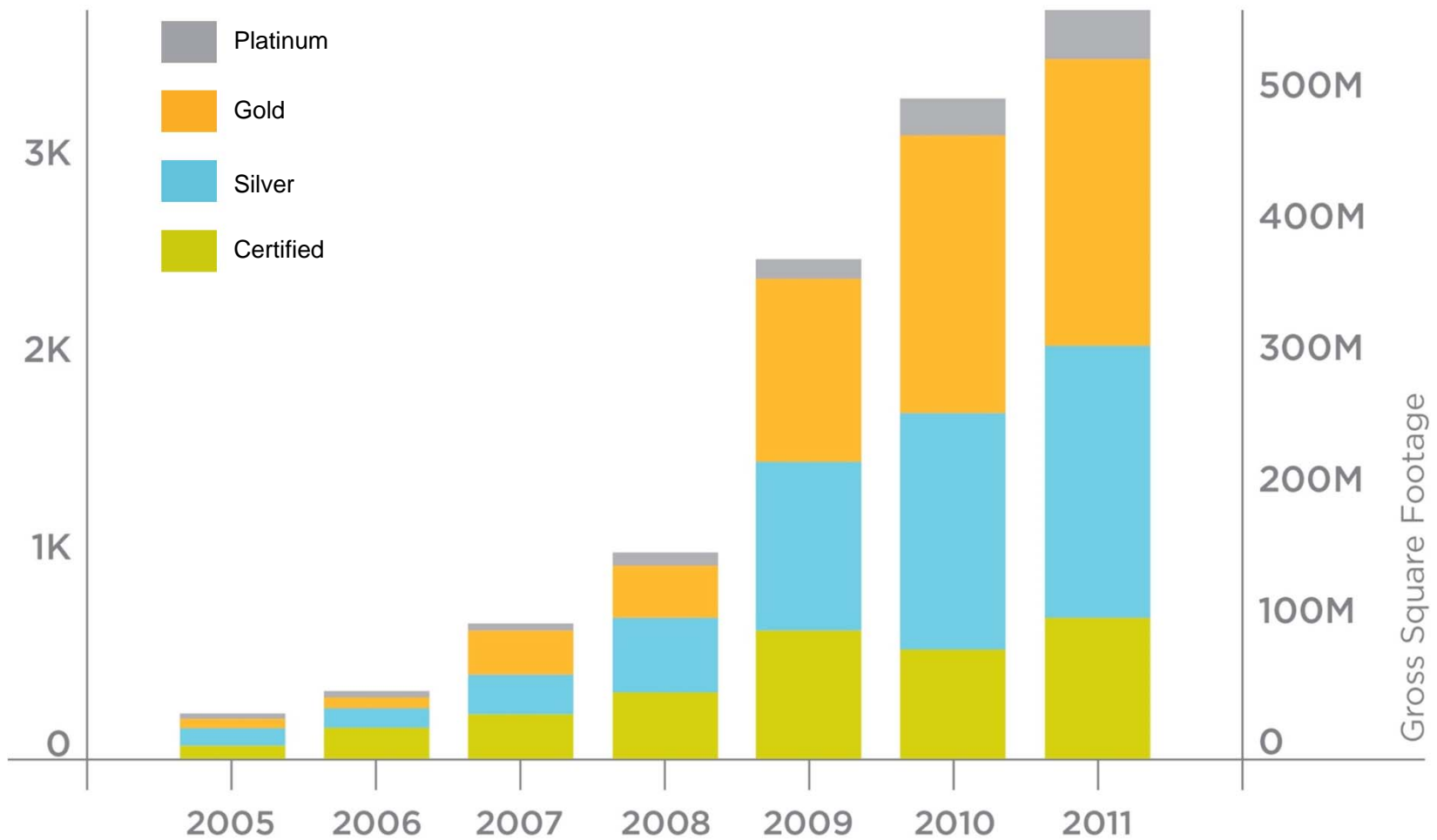


GREEN BUILDING MARKET



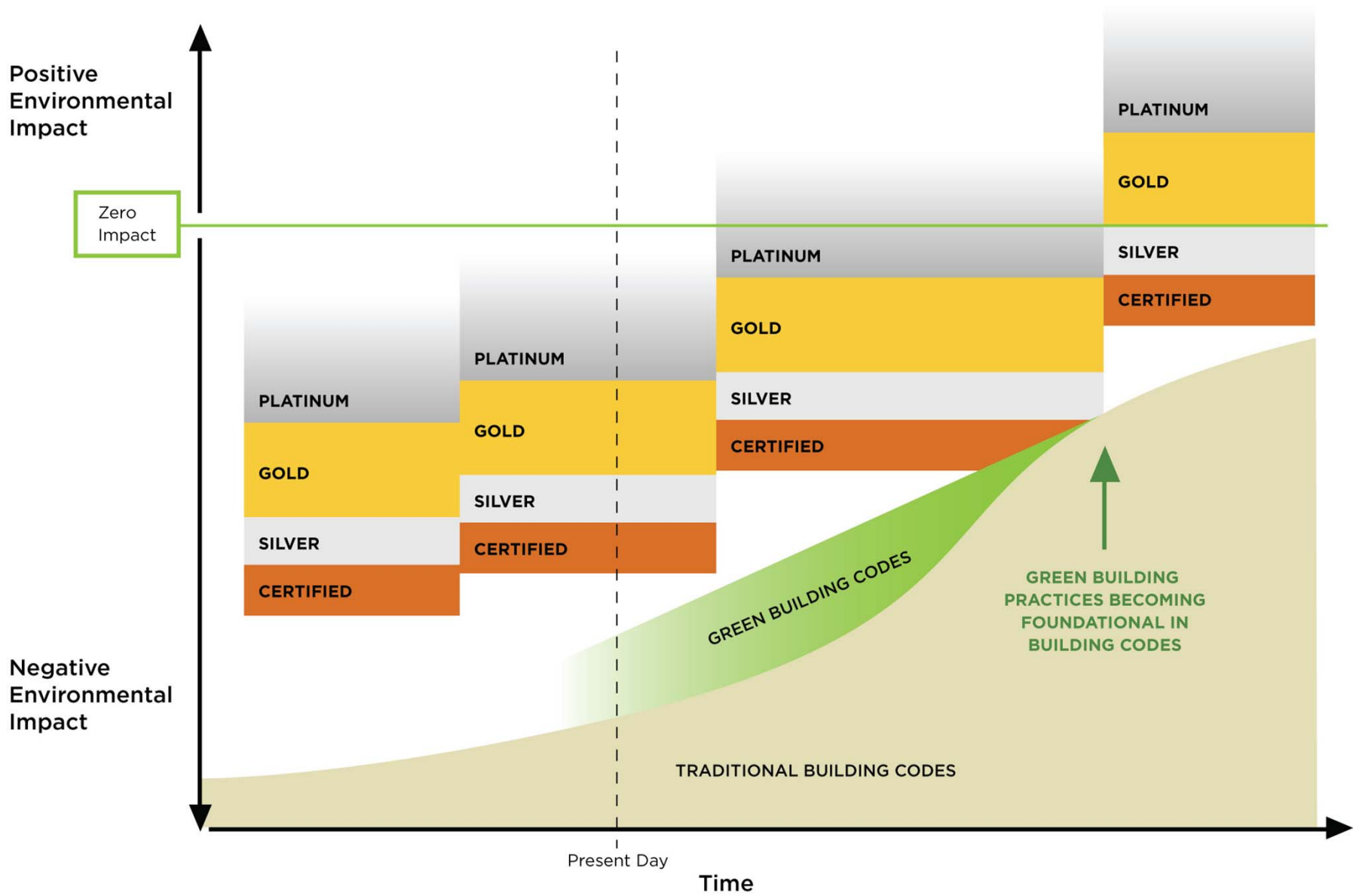
Source: McGraw-Hill Construction's 2013 Dodge Construction Green Outlook

CERTIFICATION TRENDS



CREATIVE TENSION





LEED v4:

**FOCUS ON
PERFORMANCE**

HOW HAS LEED IMPROVED FOR v4?

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

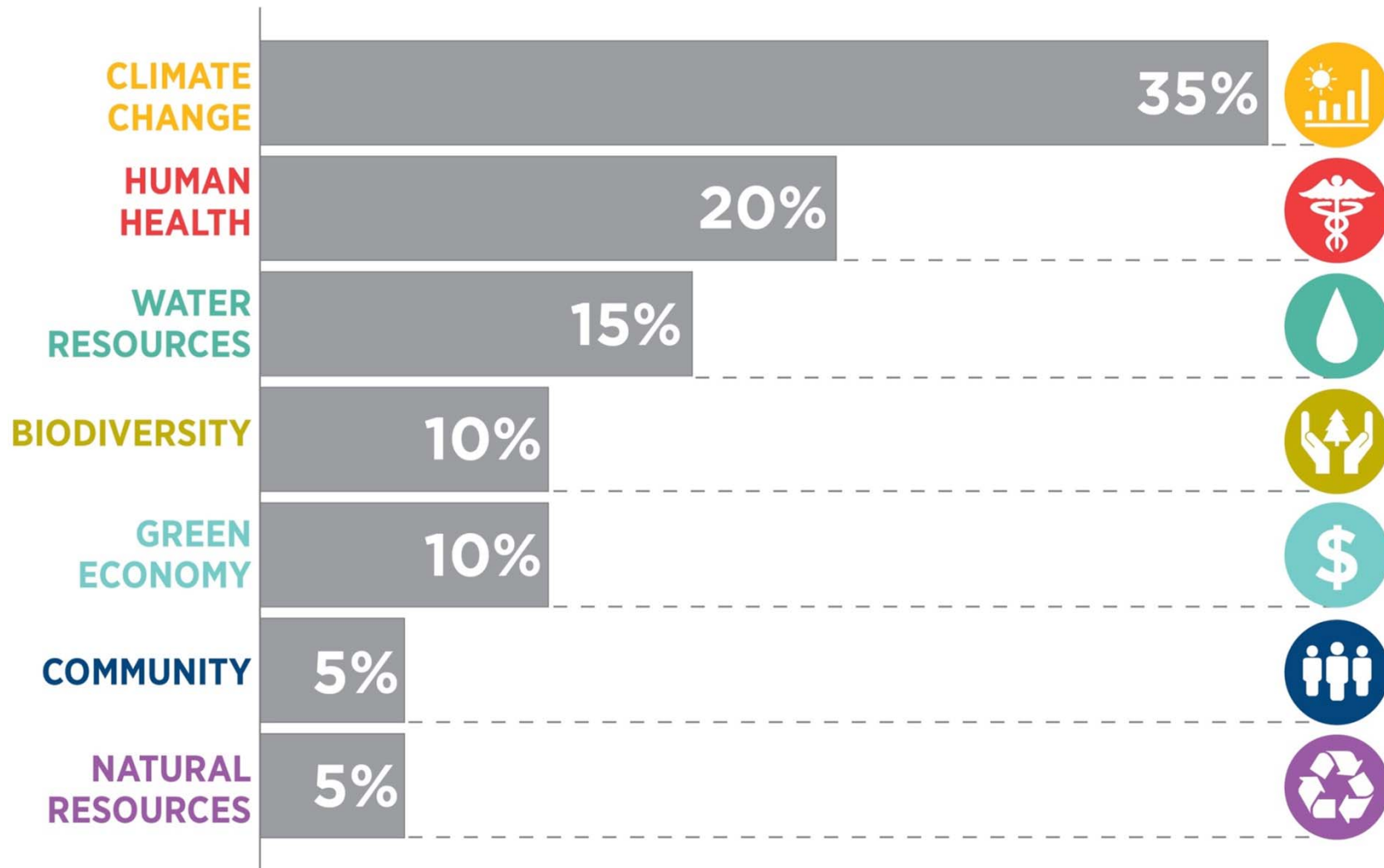


Build a **green economy**



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

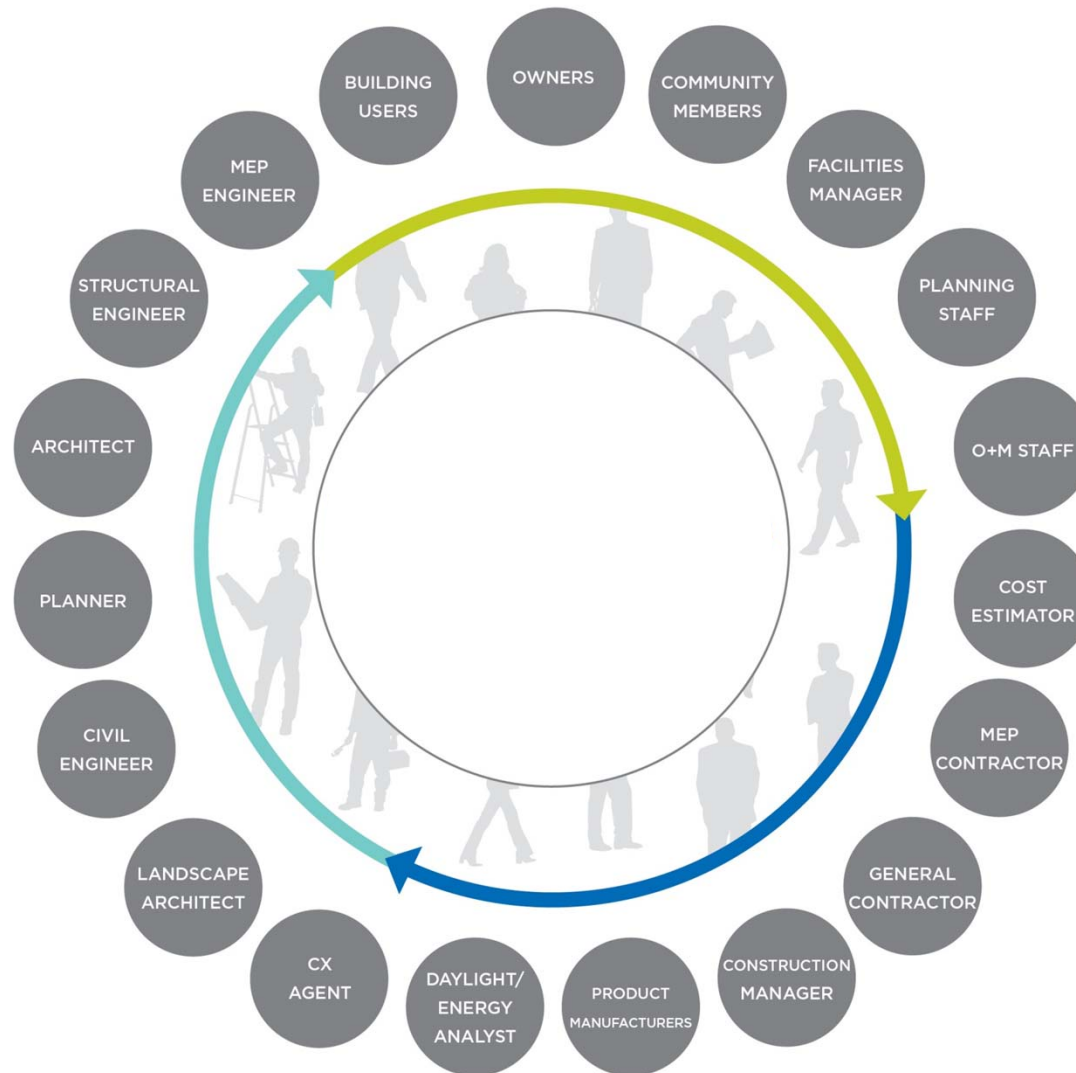
Highlights

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

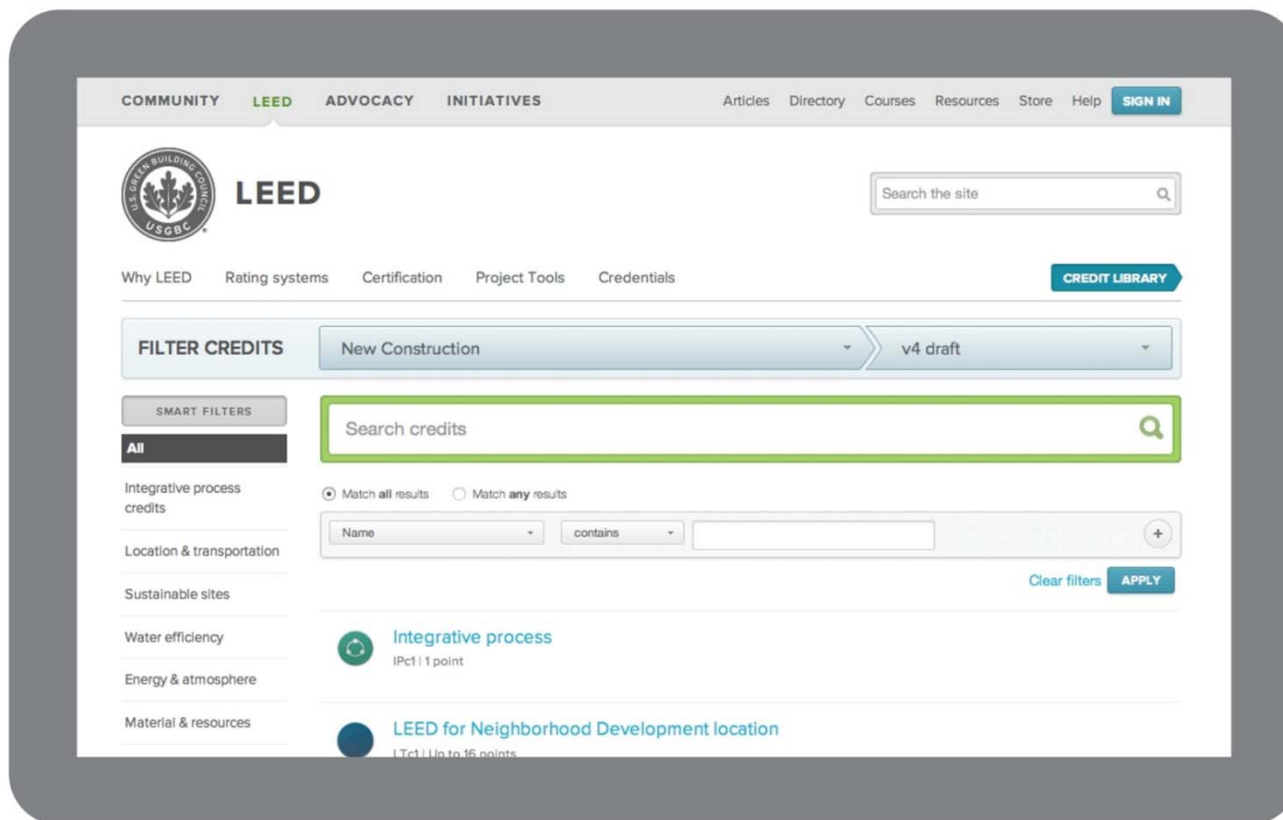
Includes campus, multiple building, recertification

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

Removed required signatories

Removed duplication of content

LEED CREDIT LIBRARY



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 launch at Greenbuild in **November 2013**

usgbc.org/leedv4