



SUSTAIN
ABILITY



DC

SUSTAINABLE DC

sustainable.dc.gov

sustainable.future@dc.gov

**Severe Weather and Critical
Infrastructure Resilience**

March 13, 2013

DC is a Sustainable Leader

230+ LEED certified buildings; 300+ ENERGY STAR®

District Government buying 100% green power

Bag tax reduced disposable bag use by 60%

Almost 1,500,000 square feet of green roofs

Largest bikeshare in U.S. (19,000+ members)

50% of District trips by transit, walking, or bike



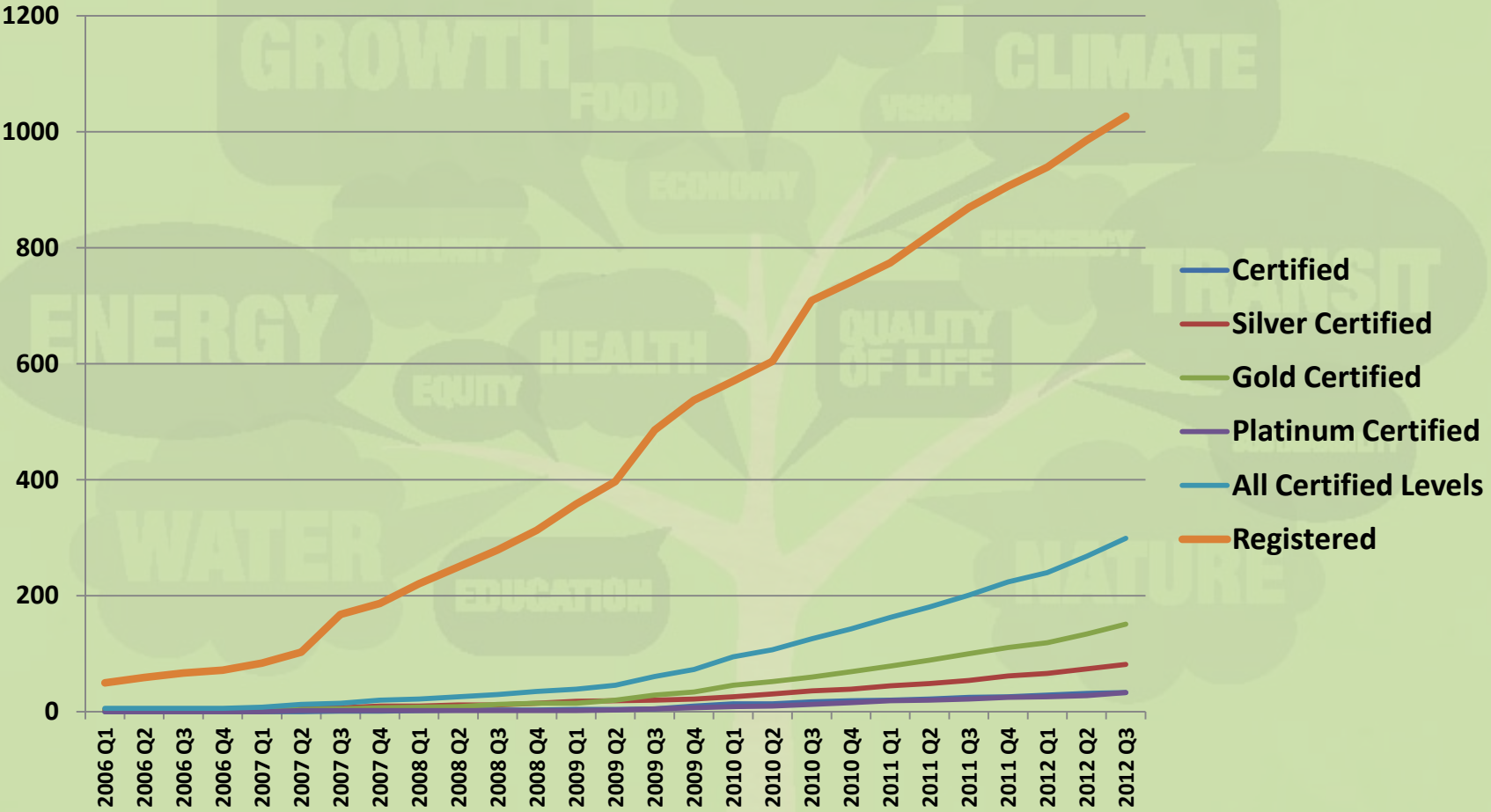
Green Building Law

- ▶ **Green Building Act of 2006** – Requires LEED certification for private and public sectors
- ▶ **Clean & Affordable Energy Act of 2008** –Requires Energy Star benchmarking for private and public sectors; creates DC SEU; increase RPS
- ▶ **Energy Efficiency Financing Act of 2010** – Authorizes financing of water, energy efficiency and renewable energy projects (PACE)



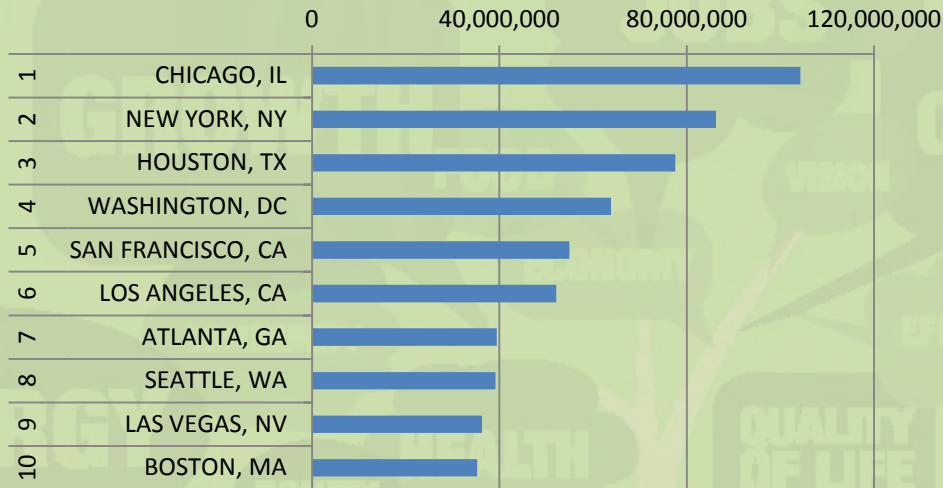
LEED Project Construction

of
Projects

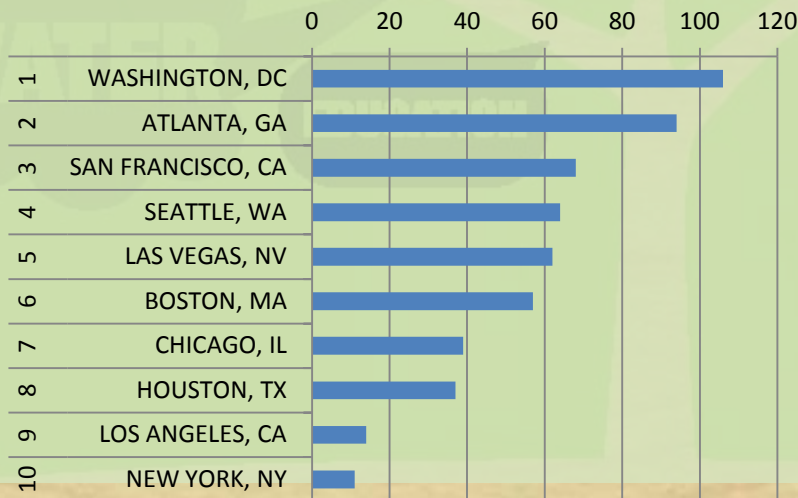


LEED Project Construction

Top 10 Cities in Total LEED Certified Space



LEED Certified Space Per Capita



Green Building Policies

- ▶ **Green Construction Codes** – moving to ICC 2012 codes by summer 2013
- ▶ **Stormwater Regulations** – in response to EPA MS4 permit, requiring on-site retention and management
- ▶ **Green Area Ratio** – proposed in zoning rewrite to require green practices over parcels
- ▶ **Current and Future Incentives** – DC SEU, Renewable Energy Incentive Program, RiverSmart Program, low-income weatherization, brownfields redevelopment



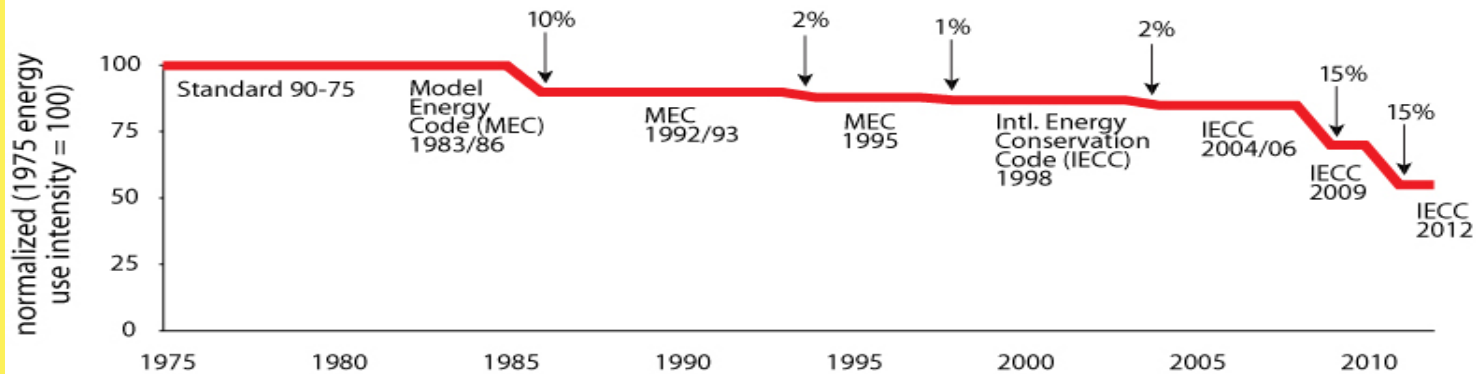
Green Building Policies

- ▶ **Scope** – all commercial new construction and level III alterations 10,000 SF+ and all multifamily projects 10,000 SF+ and 4 stories+
- ▶ **LEED-like sections** –
 - ▶ Site Development and Land Use
 - ▶ Material Resource Conservation and Efficiency
 - ▶ Energy Conservation and Efficiency
 - ▶ Water Resource Conservation and Efficiency
 - ▶ Indoor Environmental Quality and Comfort
 - ▶ Commissioning
- ▶ **Alternative Compliance Paths** – LEED, Enterprise Green Communities, ASHRAE 189.1, National Green Building Standard (ICC 700)

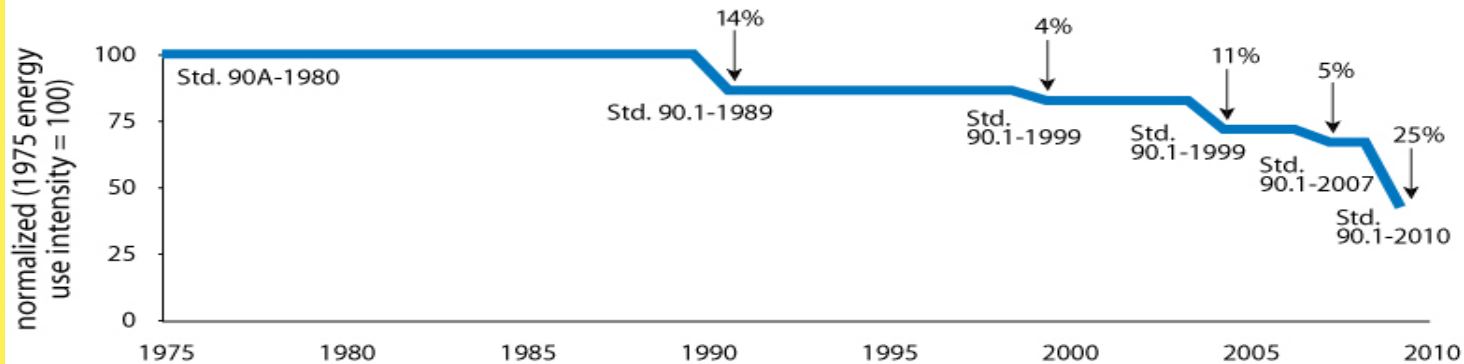


Energy Conservation Codes

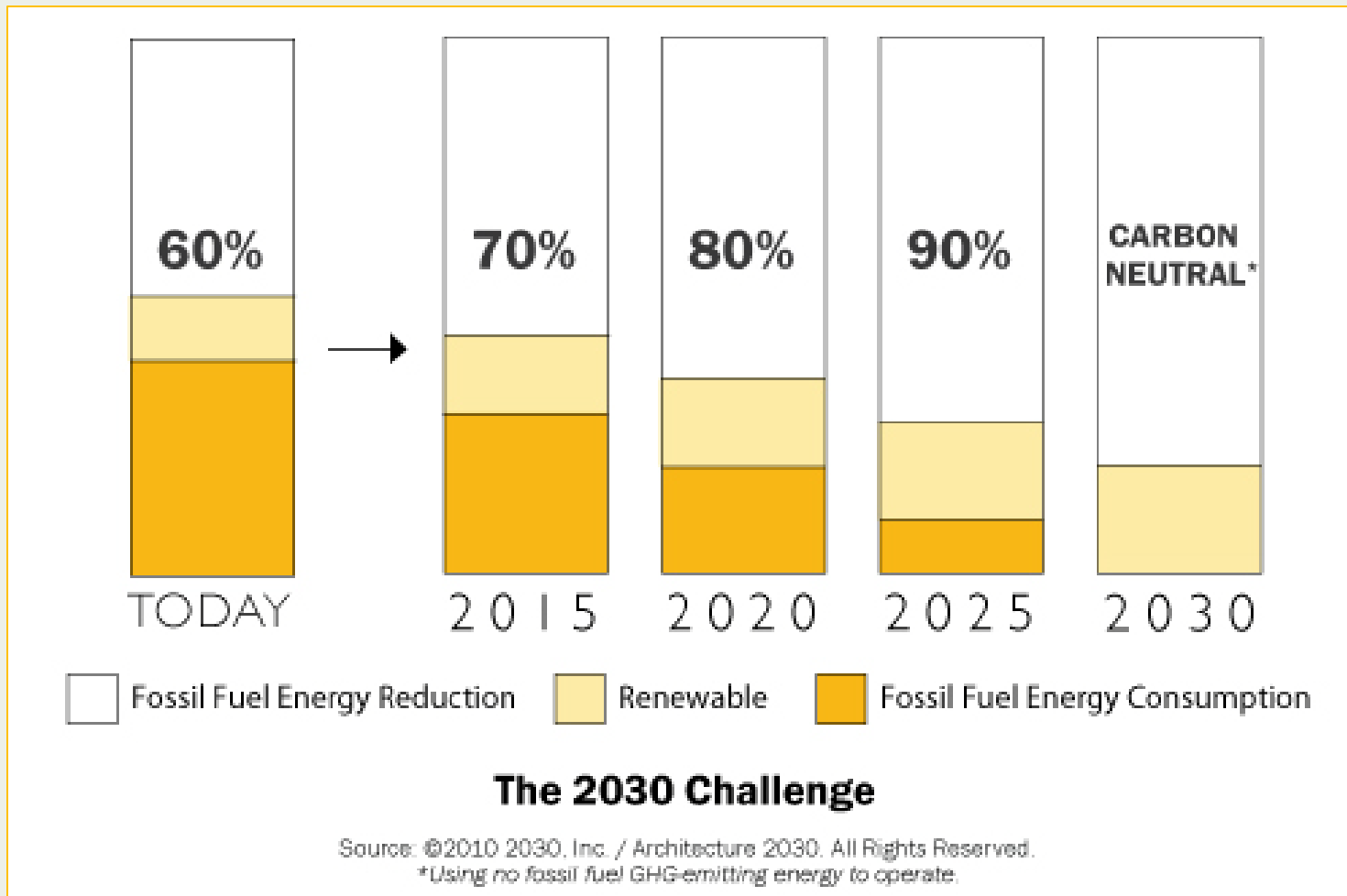
Changes in residential building codes, 1975–2011

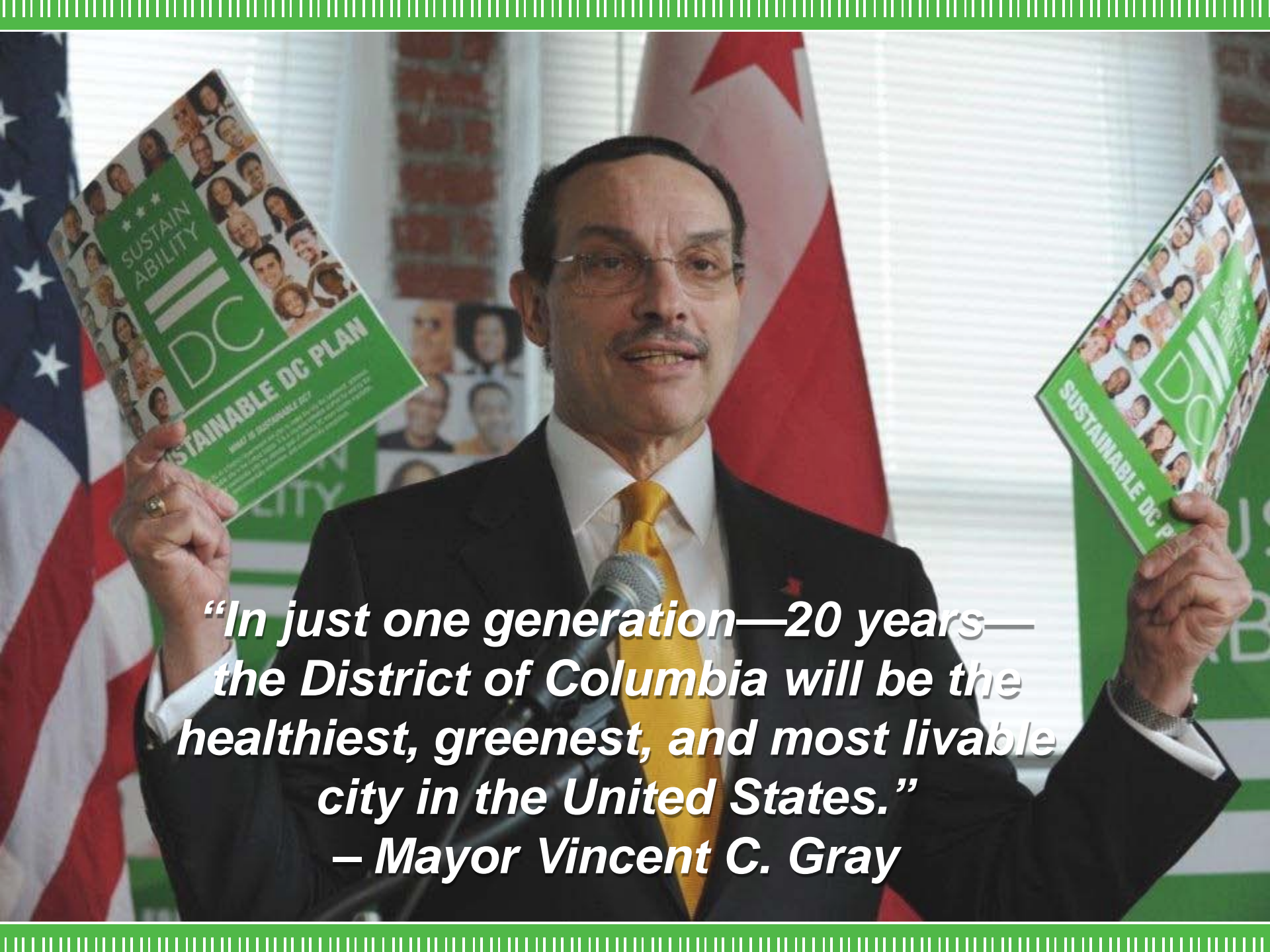


Changes in commercial building codes, 1975–2009



Energy Conservation Codes





***“In just one generation—20 years—
the District of Columbia will be the
healthiest, greenest, and most livable
city in the United States.”
– Mayor Vincent C. Gray***

From Vision to Reality



**OUTREACH &
ENGAGEMENT**

FALL 2011

**RELEASE OF
*A Vision for a
Sustainable DC***

APRIL 2012

**PLAN
DEVELOPMENT &
INNOVATION
FUND**

FALL 2012

**ENGAGEMENT &
IMPLEMENTATION**

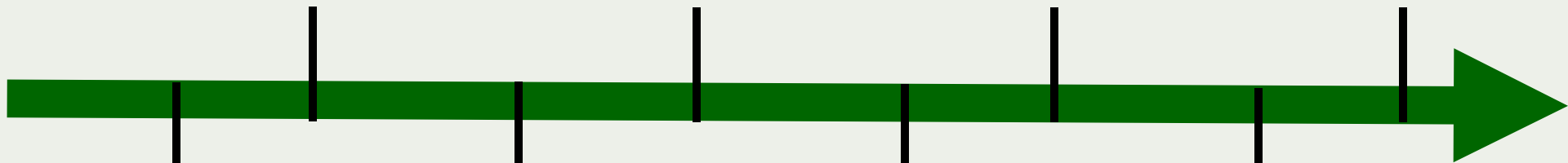
BEYOND

**SUMMER 2011
KICK OFF**

**WINTER 2011/12
WORKING
GROUPS**

**SUMMER 2012
INTERNAL DC
GOVERNMENT
COORDINATION**

**FEBRUARY 2013
RELEASE OF
*Sustainable DC
Plan***



Cutting Edge Framework



4 CHALLENGES	7 SOLUTIONS
<ul style="list-style-type: none">• Jobs and the Economy• Health and Wellness• Equity and Diversity• Climate and Environment	<ul style="list-style-type: none">• Built Environment• Energy• Food• Nature• Transportation• Waste• Water

- ▶ **32** Ambitious Goals
- ▶ **31** Measurable Targets
- ▶ **143** Specific Actions – short, medium and long term

BUILT ENVIRONMENT 2032:

Meet net-zero energy standards with
all new construction



Built Environment

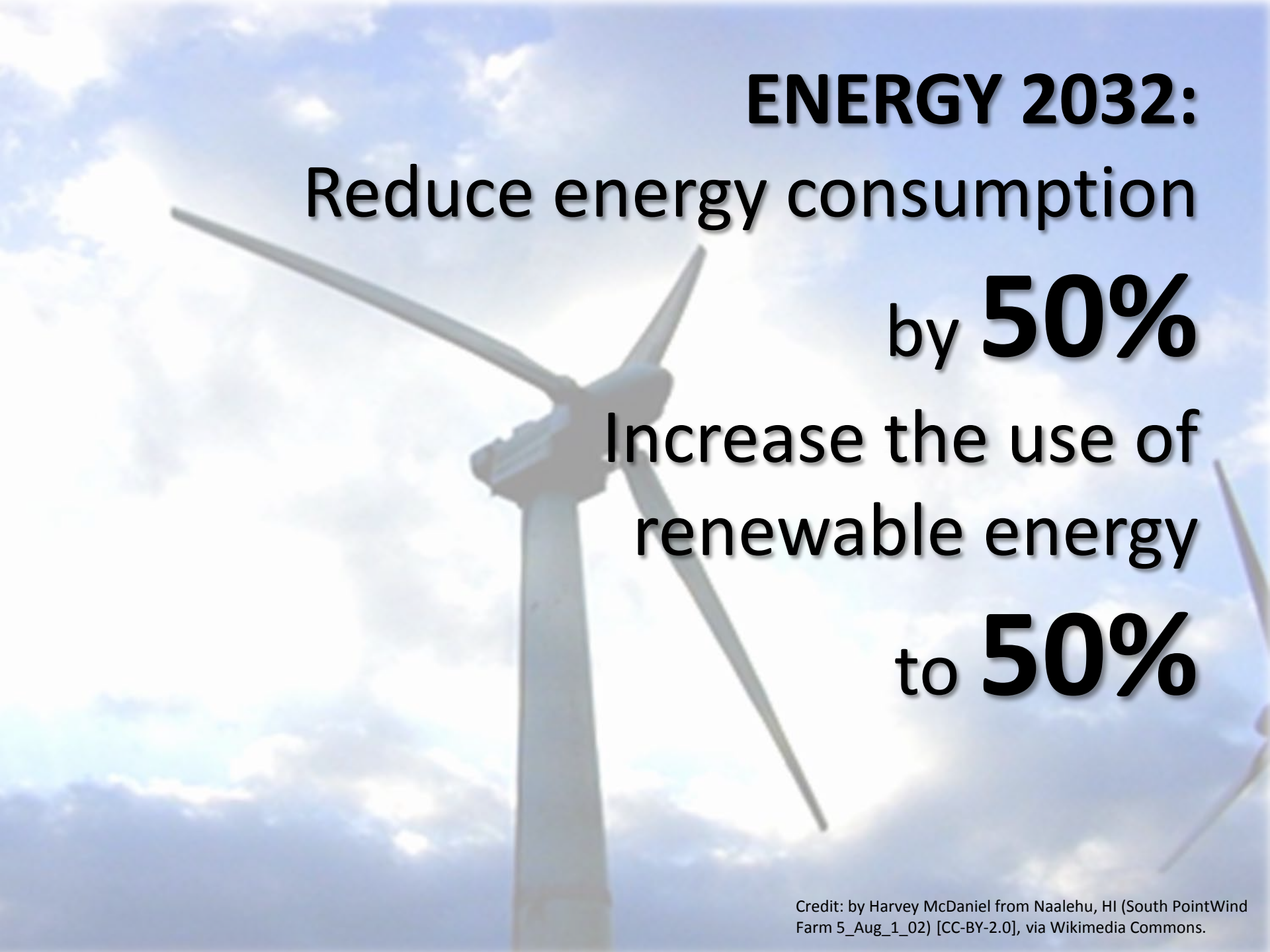
Goal 4: Ensure the highest standards of green building design for new construction

Target: By 2032, meet net-zero energy use standards in all new construction projects.

Actions:

- ▶ Adopt latest green building code for all new construction/major renovations (Short Term)
- ▶ Update Green Building Act to require a higher level of LEED certification (Medium Term)
- ▶ Require all new buildings to be net-zero energy or net-positive (Long Term)





ENERGY 2032:
Reduce energy consumption
by **50%**
Increase the use of
renewable energy
to **50%**



TRANSPORTATION 2032:

Make **75%** of all trips
by walking, biking, or transit



WATER 2032:

Use **75%** of our landscape
to filter or capture rainwater
for reuse

CLIMATE 2032:

Reduce citywide
greenhouse gas emissions by
50%

Assess **all** new buildings and
infrastructure for climate
resiliency

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