Green Boston: A Climate of Action

Mayor Thomas M. Menino

Jim Hunt Chief of Environment and Energy

BHA Maverick Gardens Green Affordable Housing



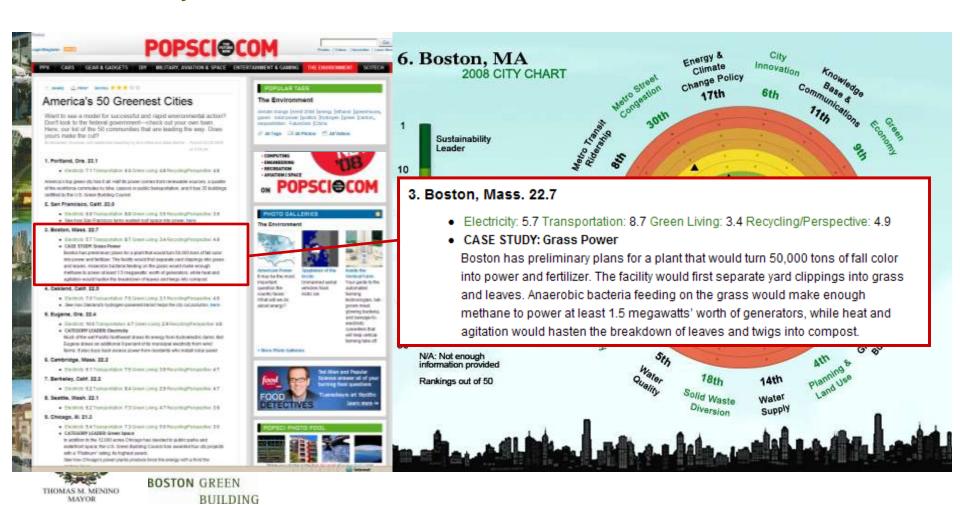




National Leader in Sustainability

In 2008, Boston has been ranked one of the most sustainable cities in the US:

- Ranked 3rd by Popular Science Magazine
- Ranked 6th by SustainLane.com









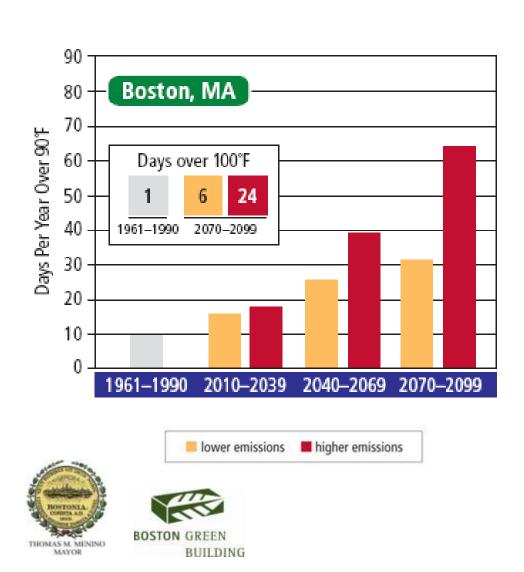


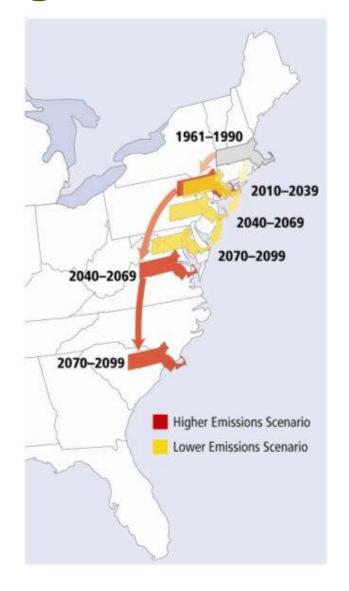






Increased Temperatures Due to Climate Change

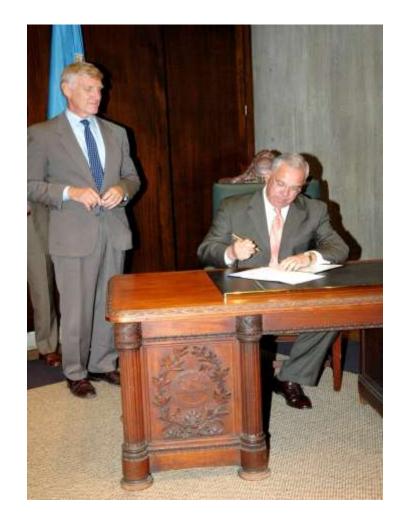




Mayor Menino's Climate Action Executive Order – April, 2007

Ambitious Municipal GHG Goals:

- -7% below 1990 levels by 2012
- -80% below 1990 levels by 2050







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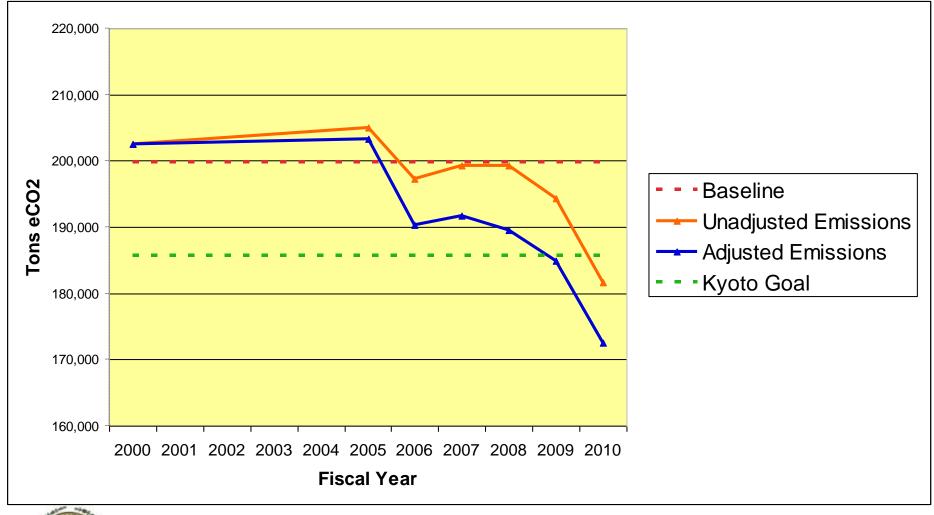
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Establish Climate Leadership Committee to recommend:

- -community-wide GHG targets,
- -adaptation strategies,
- -and develop the recommended strategies for implementation



2010 - Boston Municipal GHG's Below Kyoto





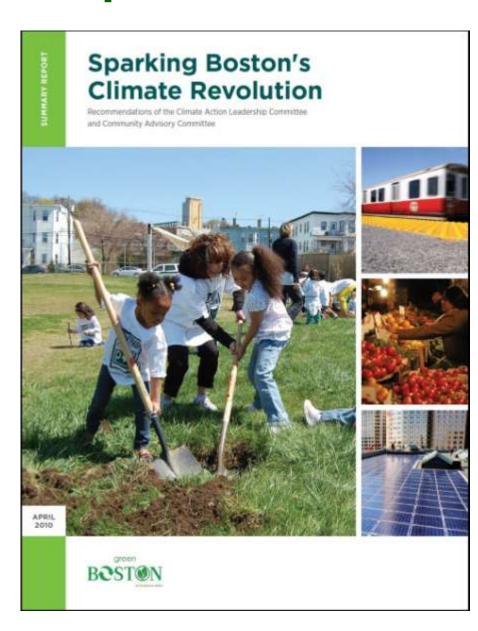


Climate Action Leadership Committee

Mindy Lubber, CERES James McCarthy, Harvard University Kalila Barnett, ACE Timothy Healey, EnerNOC Bud Ris, New England Aquarium Bryan Koop, Boston Properties Rev. Ray Hammond, Bethel AME Jim Coyle, Boston Building Trades Richard Dimino, A Better City Judith Nitsch, Nitsch Engineering Mark Buckley, Staples Chuck McDermott, RockPort Capital





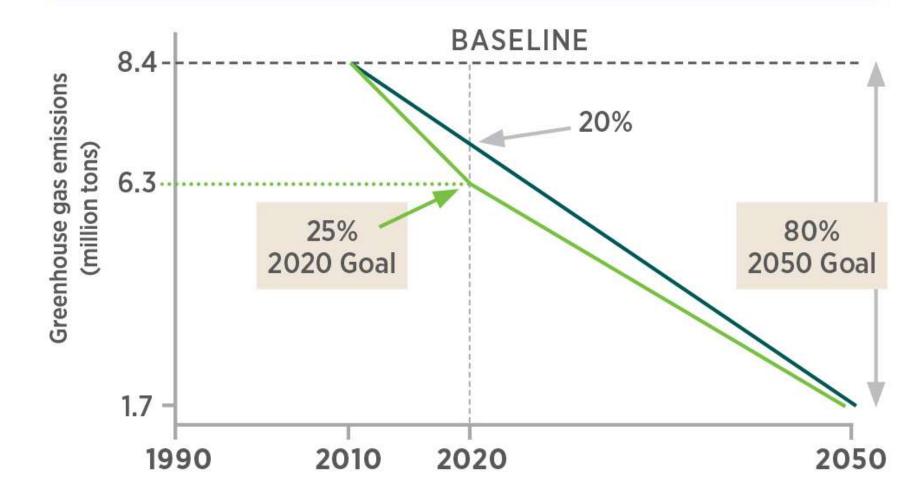








Greenhouse Gas Reduction Goals to 2050

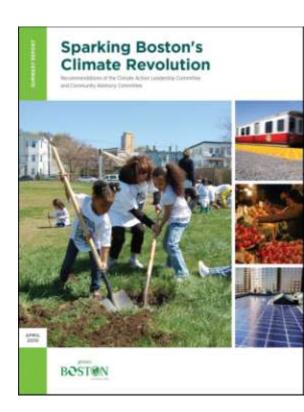






25% GHG reduction citywide by 2020

80% below 1990 levels by 2050

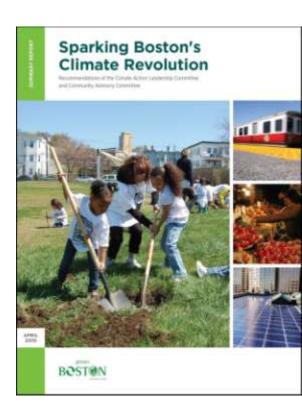






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Enhanced mitigation strategies: energy efficiency, building codes and labeling, renewable energy, urban forestry, recycling, sustainable transportation, land use



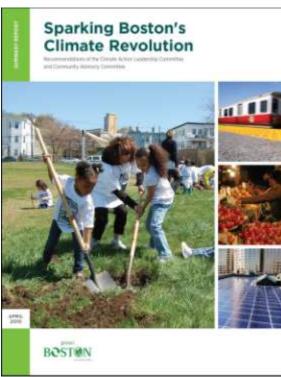




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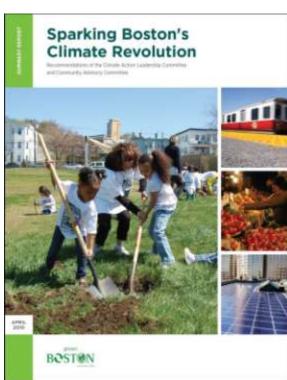
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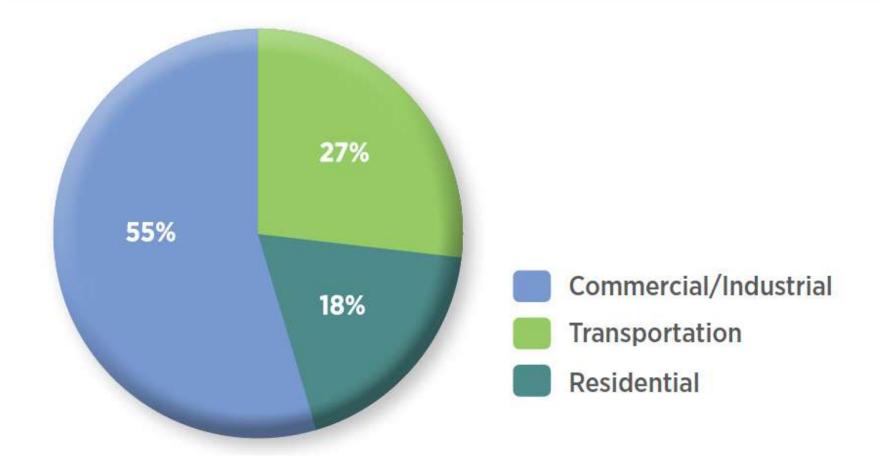
Continue to support the **green economy** and connect local residents to **green jobs**







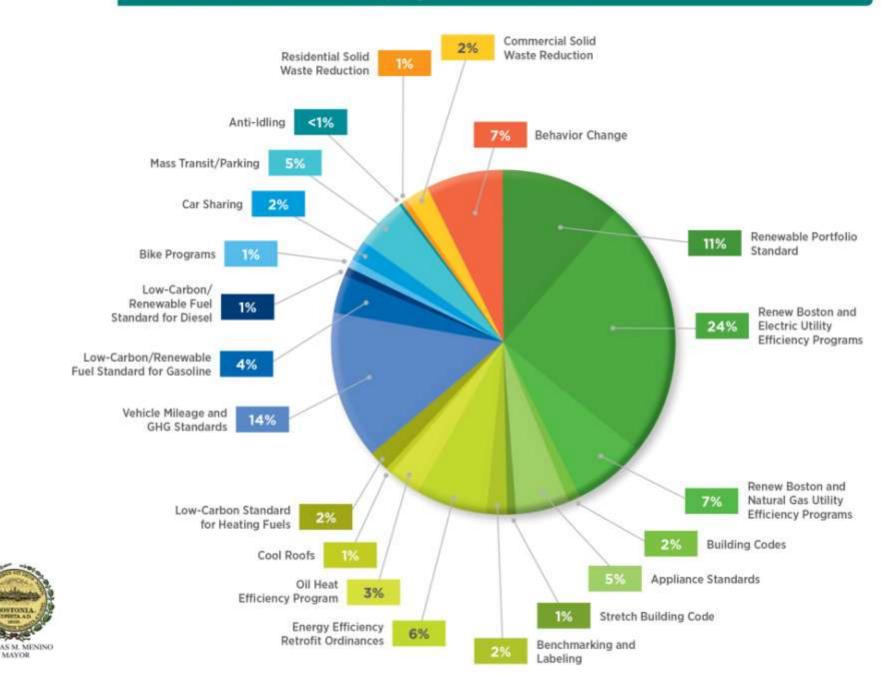
Boston 2008 GHG Emissions by Sector



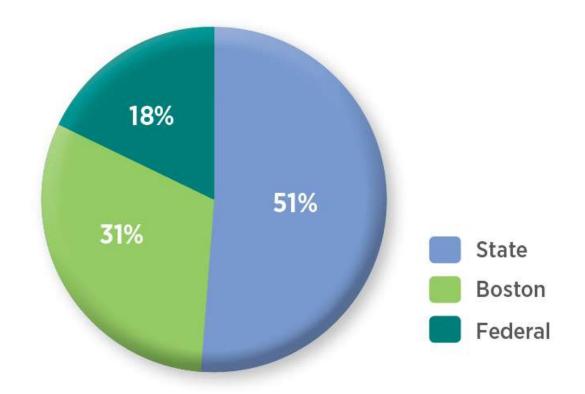




Boston 2020 Greenhouse Gas Reductions by Program — Shares of 2020 Goal



Boston 2020 GHG Reductions by Jurisdiction







Boston Green Building Standards

 Boston adopts 1st in nation
 Green Building Zoning requiring new construction to follow LEED
 Standards (BZC Article 37) - 2007







Atlantic Wharf – Boston Properties

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 Green Building Zoning requiring new construction to follow LEED
 Standards (BZC Article 37) 2007
- Stretch Energy Code, requiring new residential and commercial buildings to achieve 20% better energy performance than base code 2010.





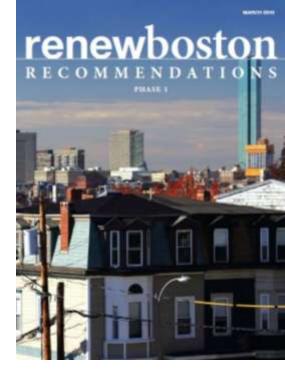


Atlantic Wharf – Boston Properties



Save Energy, Save Money Thomas M. Menino, Mayor

Catalyze Energy Efficiency across all sectors and neighborhoods of Boston – break down historic barriers to EE;





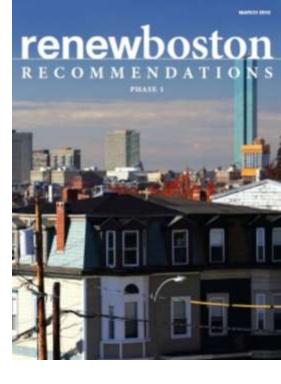






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Connect utility programs with public, private, and community based networks that exist in Boston;



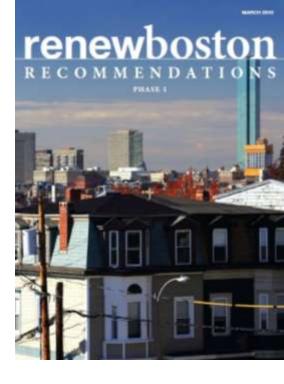






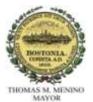
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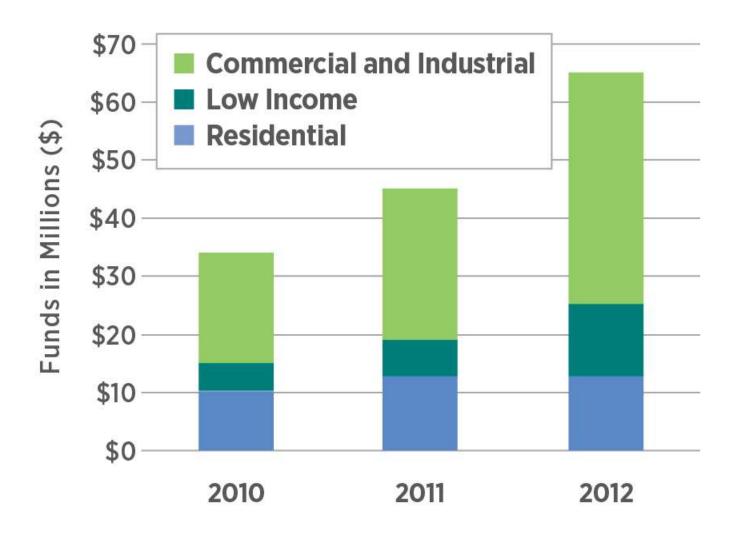
Connect energy savings with local economic development and job creation







Projected Utility Efficiency Program Spending in Boston











\$6.5 Million in EECBG to Boston Renew Boston

- Leverages more than \$20 million dollars in state, utility and private funds
- Weatherizes over 3,000 additional homes in Boston
- Creates more than 100 green-collar jobs
- Reduces GHG emissions by 40,000 metric tons annually
- Installs more than 500kw of clean energy capacity within the City



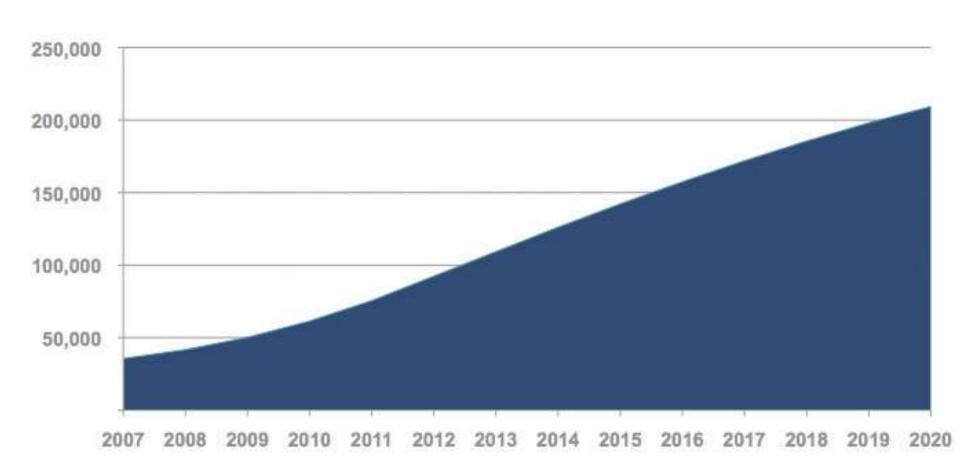




Residential Participation Goal



The participation goal is to serve 150,000 households from 2010 through 2020.



Renewable Energy

- 11.7% of City's bulk electricity purchase comes from green power
- Wind Zoning Article 88
- Moon Island Project
- Solar Boston









Deer Island 1.2 MW



Boston City Hall Demonstration Project



Harvard Business School, Boston 36.5 kW

Solar Boston – Solar America City

🏂 http://gis.cityofboston.gov/solarboston/ - Windows Internet Explorer

bittp://gis.cityofboston.gov/solerboston/

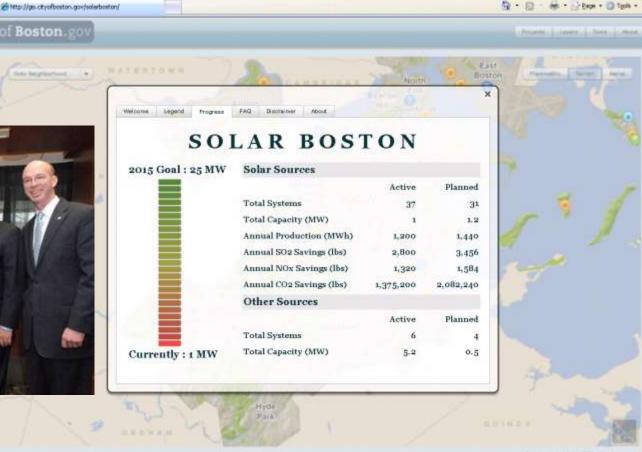
City of Boston.gov

25 MW by 2015

Measuring Solar Progress

500% increase since 2008





▼ ★★ ★ Scoope

● Internet





Sustainable Transportation

Promote MBTA mass transit

Discourage driving though parking policy and price signals

Expand bike and pedestrian opportunities

Expand EV and car sharing access









Boston Complete Streets

 Multi-modal: Safe, comfortable & accessible for all users

 Green: Sustainable materials, storm water management & reduced energy consumption

Smart: efficient & maximize technological advances







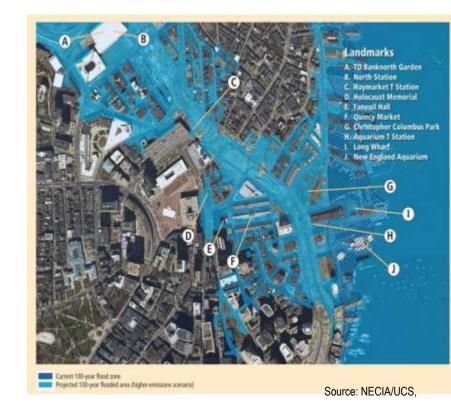
Adaptation – Building a Resilient Future

Adaptation should have equal priority in Boston's Climate Action plan

Focus on Sea Level Rise, Heat Waves, and Extreme Weather

Assess vulnerability, with a focus on vulnerable populations

Include adaptation in all planning, identify "no regrets," "low cost" and "wait and see" strategies







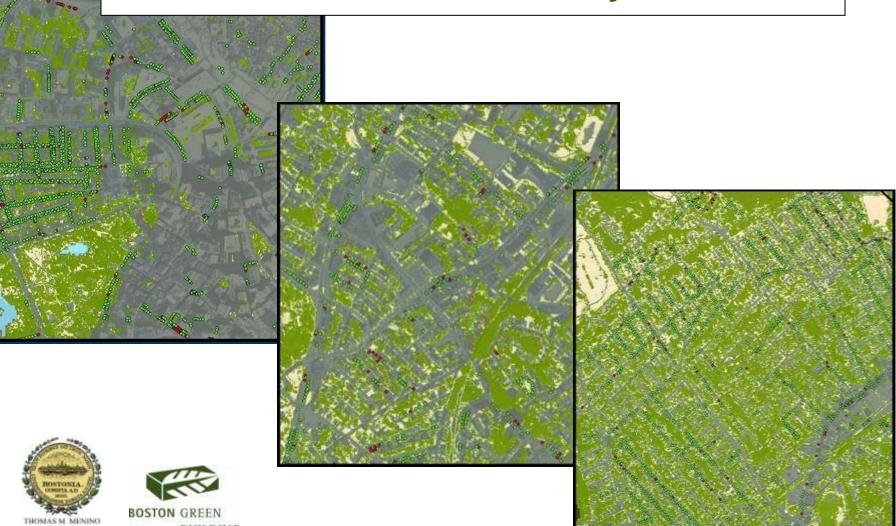
Extreme Climate Impacts – Long Wharf January 2010





Growing Boston Greener

100,000 New Trees By 2020







Increase Tree Canopy to 35% by 2030

BUILDING



Clean Tech Cluster / Green Jobs

Boston is a clean tech hub – sector continues to grow in Innovation District

Green Jobs Boston Partnership – preparing local residents to enter and climb this good paying career ladder

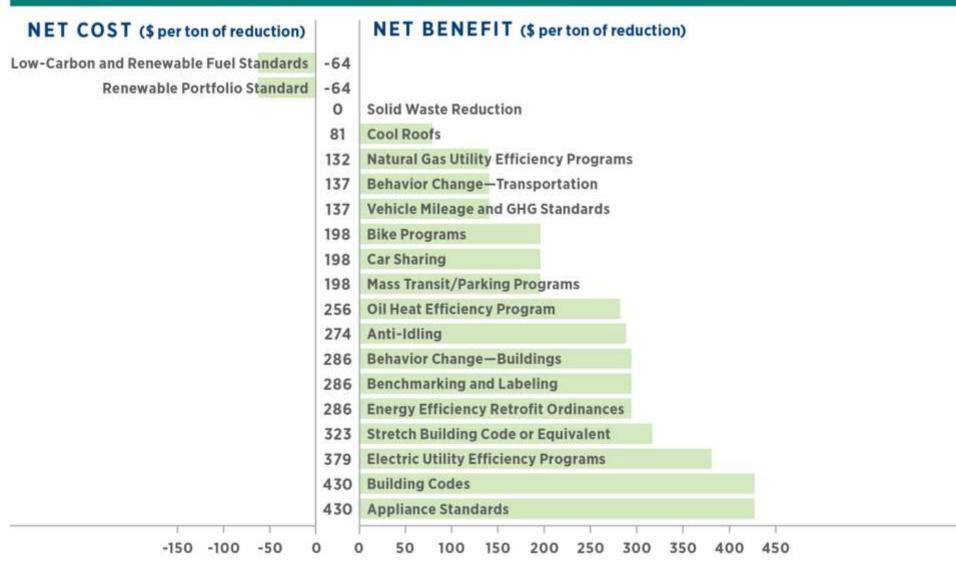


Bringing savings to local residents and businesses, stimulating local economies



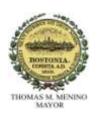


Net Savings from Greenhouse Gas Reduction Measures



Economic Benefit of Climate Action \$ 2 Billion in Net Savings by 2020

	Cumulative GHG Reductions through 2020 (thousand tons)	Total Net Savings (\$ million)
Buildings	6,750	\$ 1,670
Transportation	3,130	\$ 410
Solid Waste	140	\$ O
TOTAL	10,020	\$ 2,070





"Our green agenda will improve our environment and public health while stimulating our growing green economy. Together, we are turning 'Beantown into Greentown."

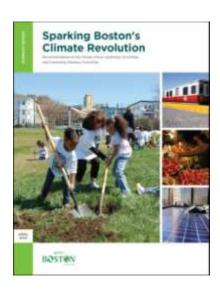
Mayor Thomas M. Menino











www.cityofboston.gov/climate



www.renewboston.org

james.hunt@cityofboston.gov



