

# Renew Boston:

City of Boston's Sustainability, Green Economic Development, and Climate Initiative

**Thomas M. Menino, Mayor**

*Bradford Swing, Director of Energy Policy*



**Northeast Energy Efficiency Council: "A Perfect Storm" for Energy Efficiency**

**Tuesday, October 20, 2009—Westborough, MA**

# Renew Boston Targets

- 100 green collar jobs using Block Grant funds
- 25 megawatts of solar PV by 2015
- 200 MW electricity demand reduction by 2017
- Community emission reductions:
  - 7% by 2012
  - 15-20% by 2020 (under discussion by Leadership Committee)
  - 80% by 2050

# Agenda

- 6 Benefits for Boston
- 7 Barriers to Energy Efficiency
- 5 Key Elements of Renew Boston
- New State and Federal Funding
- New & Existing Boston Initiatives
- Next Steps

# 6 Local Benefits

A cable-stayed bridge is illuminated at night, with its cables and towers glowing in blue and white. The bridge spans across a body of water, and the city lights of a coastal city are visible in the background under a dark sky.

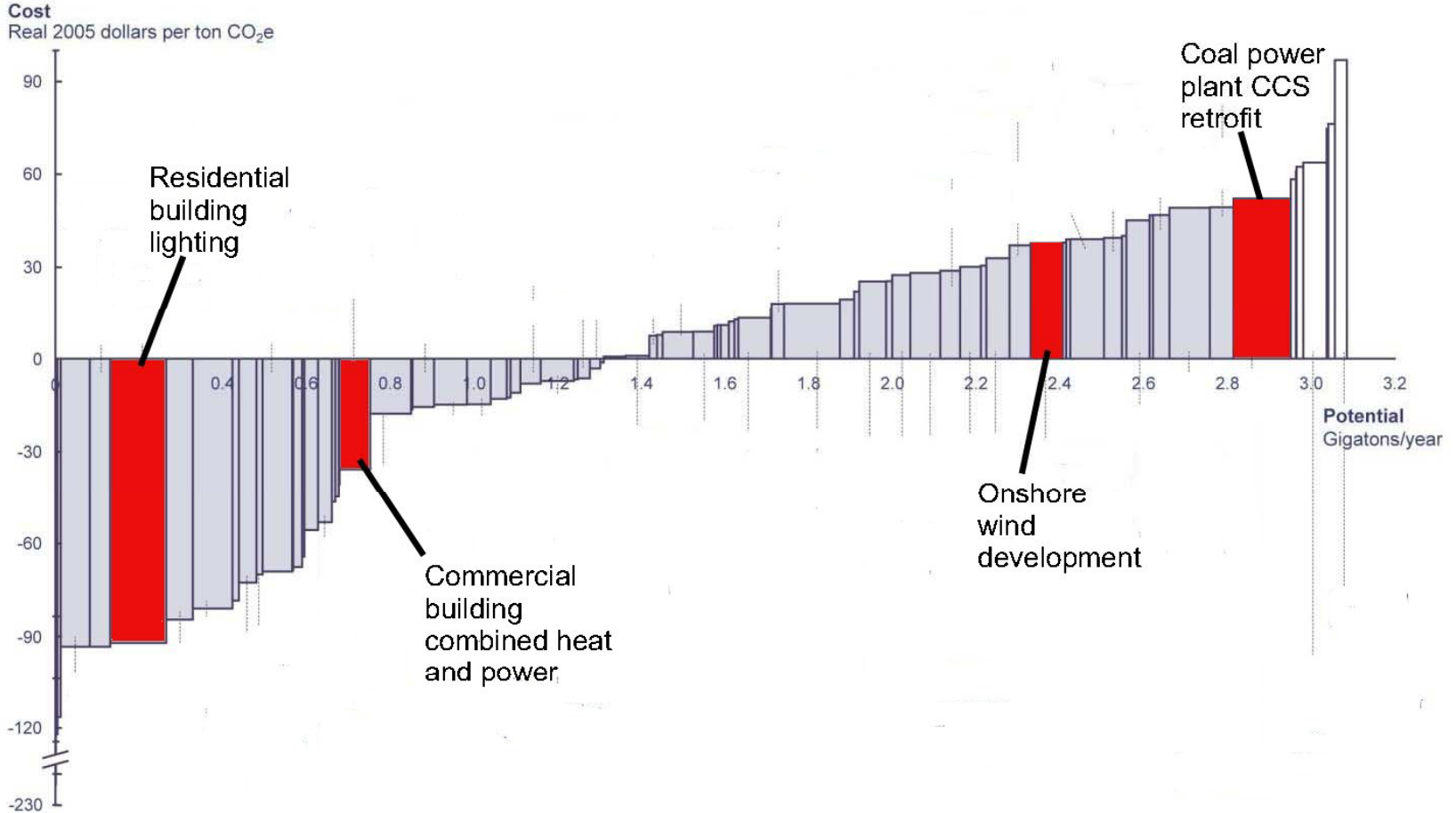
1. Reduced energy costs & risks
2. Job creation
3. Revitalized building and housing stock
4. Increased worker productivity
5. Improved public health
6. Progress toward City climate goals

# Job Creation



# Opportunity for Economic Savings

## U.S. MID-RANGE ABATEMENT CURVE - 2030



# Energy Efficiency is Challenging

1. Lack of information
2. Hassle
3. Uncertainty
4. Affordability
5. Capital availability
6. *Old housing stock*
7. *Landlord-tenant issues*



# THE RENEW BOSTON SOLUTION



# Potential Elements of Renew Boston



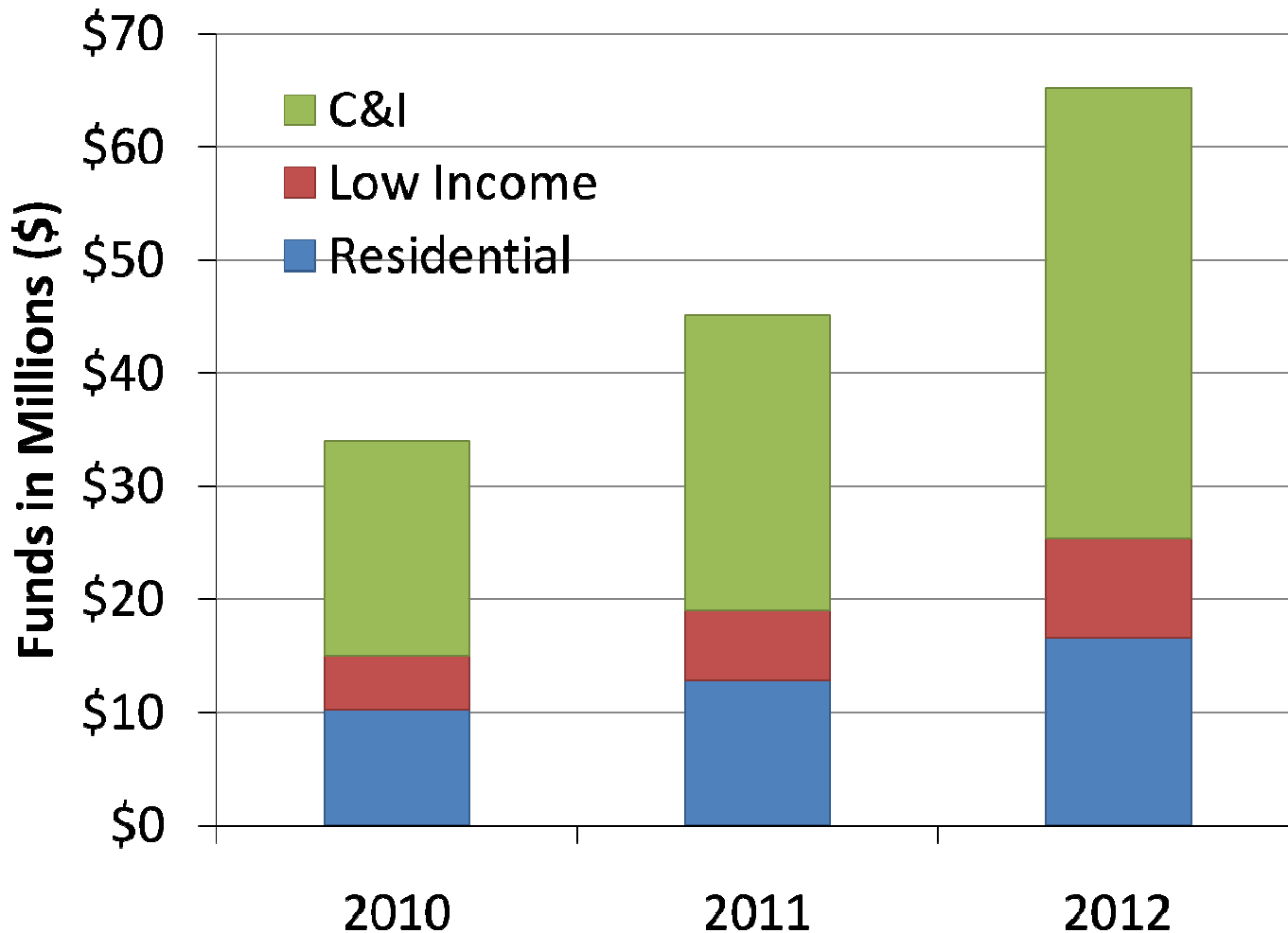
1. Community outreach and marketing
2. Service coordination and delivery
3. Capital sourcing and coordination of financing
4. Green jobs development
5. Tracking and monitoring (IT)

# New Federal Initiatives

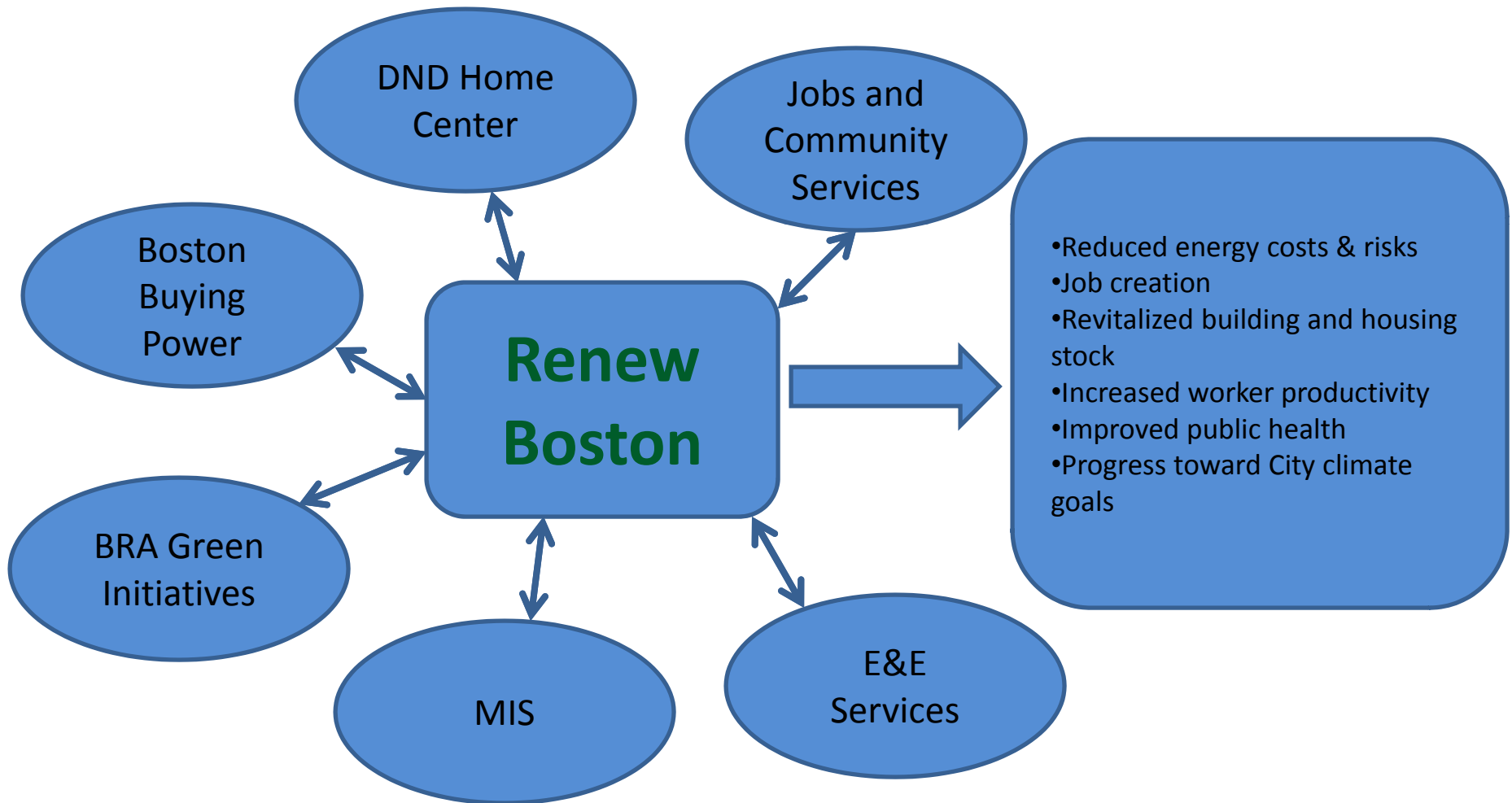
- Energy Efficiency and Conservation Block Grant
- Low-income weatherization funding expansion
- Retrofit Ramp-up
- Federal Cap and Trade Legislation



# Funding for Energy Efficiency Programs in Boston is Expanding



# City Initiatives to Coordinate



# City Initiatives to Build On

A night-time photograph of a cable-stayed bridge, likely the J. Edgar Hoover Bridge in San Francisco, illuminated with blue and green lights. The bridge's cables and towers are prominent against a dark sky. In the background, a city skyline is visible with various lights and buildings, including the Transamerica Pyramid. The overall scene is a vibrant urban nightscape.

- Energy and Environmental Services
- Jobs and Community Services
- DND Residential Services
- DND Business Initiatives
- BRA Green Initiatives
- Management & Information Systems

# Environmental and Energy Services

## Energy Efficiency and Conservation Block Grant

- Funded by the American Recovery and Reinvestment Act of 2009
- Administered through the U.S. Department of Energy
- Boston has received approval for \$6.5 million in formula funding
- Strategy filed on June 24, 2009



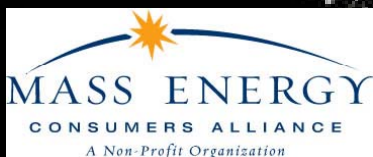
## Solar Boston

- Three-year program funded with \$200,000 from the U.S. DOE and the Massachusetts Technology Collaborative
- Boston recently received a \$1.3 million grant from U.S. DOE to 'solarize' the Washington St.-Hyde Park Ave evacuation route



## Solar Roxbury

- Initiative funded through the Air Pollution Control Commission
- Plans to coordinate a 500kW solar buying pool



# Jobs and Community Services

- Renew Boston Pilot
- Green Jobs Initiatives
- Pathways out of Poverty Grant Application





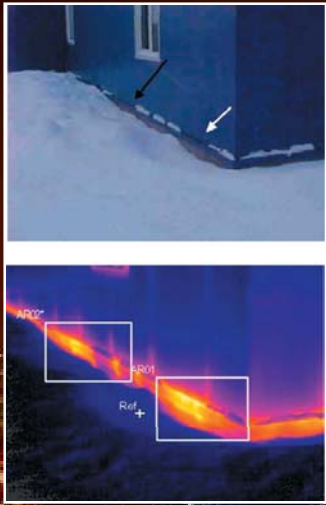
# DND Business Initiatives

## Boston Buying Power

- Electricity buying pool of more than 800 City businesses
- 15% average savings over NSTAR's standard rate
- Total of \$1.1 million in savings or participants in less than a year



# BRA Green Initiatives



- Efficient Newmarket
  - Sustainable Skylines EPA Grant \$70k
- Green Business Leaders Program
  - \$50k Mass. DEP
  - \$10K Boston Air Pollution Control Commission
- Infrared Mapping Grant
  - \$85K Barr Foundation
- Sustainable Chinatown
  - \$100K Barr Foundation



# Management & Information Systems

- Customer Response Management System
- Enterprise GIS Integration
- Solar Boston Map

The screenshot shows a web browser window displaying the City of Boston Solar Boston Map. The browser address bar shows the URL <http://gis.cityofboston.gov/solarboston/>. The page header includes the City of Boston logo and navigation tabs for Projects, Layers, Tools, and About. The main content area features a map of Boston with various colored markers indicating solar project locations. A 'PROJECTS' sidebar is open, showing a table of project details. Below the table is a 'LAYERS' sidebar with three layers: Historic District, NSTAR Area, and Solar Radiation. The map interface includes a search bar, a filter dropdown, and map style controls (Street, Terrain, Aerial).

Project Name	Neighborhood	Type
1460 DOT Avenue	Dorchester	Solar - Photovoltaic
3033 Washington Street	Roxbury	Solar - Photovoltaic
3089 Washington Street	Roxbury	Solar - Photovoltaic
Artists for Humanity EpiCenter	South Boston	Solar - Photovoltaic

<b><i>Coordinating</i></b>	FINANCING	OUTREACH
Residential	EECBG efficiency EECBG solar grants Utility efficiency funds Homeworks	Renew Boston Pilot  Infrared Efficiency Scan  EECBG community marketing
Multi-Family	EECBG multi-family CDBG ENERGY STAR LISC Retrofit program DND GAHP Green Triple Decker Program	Climate change community outreach
C&I	EECBG small commercial Utility programs BLDC Loan Program	Sustainable Chinatown Sustainable Skylines Boston Buying Power Green Business Leadership Solar Roxbury EECBG outreach

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