



## 2014 Climate Action Plan Update

### Overview

Why is our climate changing?

How does it affect me?

What is Boston doing?

What can I do?







## Climate change is impacting Boston.



Flooding



Sea-level Rise



Reduced air quality



Rising food ò cost of energy



Warmer summers & extreme heat





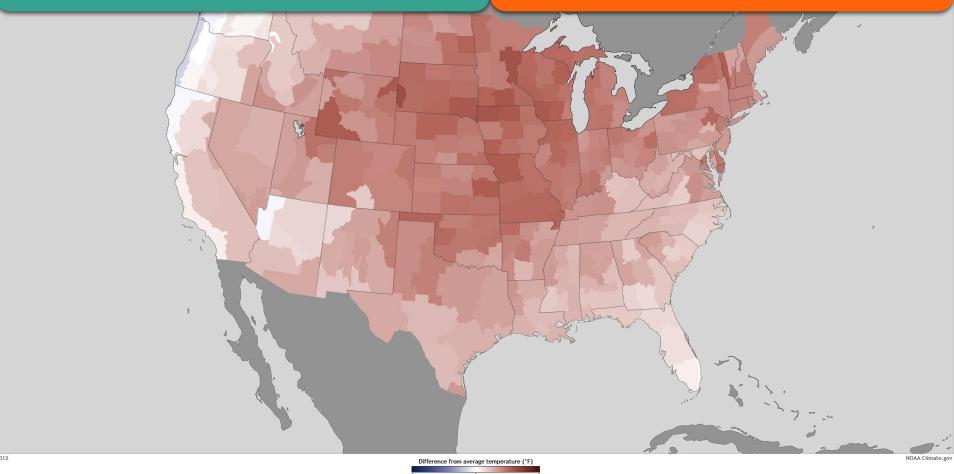


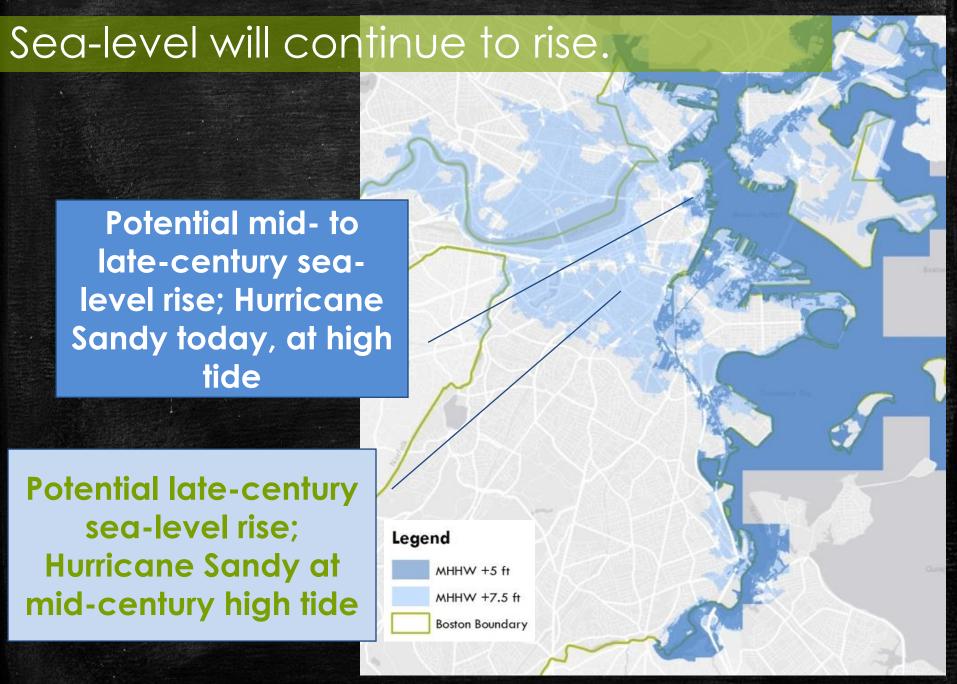


## It is getting warmer.

2012: Warmest Year on Record in the U.S. by one full degree

By 2047, coldest years will be warmer than today's warmest.





Mean Higher High Water (MHHW) is the average of the higher of the two daily high tides

## Climate change will impact you.



Short-term and long-term impacts



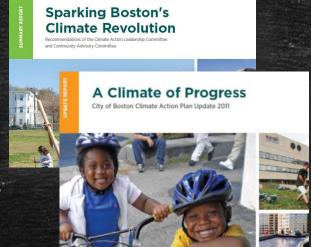


Virtual rendering of end-of-century sea level rise with storm surge

## What is Boston doing?

Boston has been taking climate action since 2007.

2007 - Executive Order on Climate Change



2011 – A Climate of Progress



2014 -Next update The 2014 update will achieve the following:

Create a comprehensive climate preparedness plan

Re-evaluate our strategies

Engage 10,000 Bostonians

Measure our progress



## This is how we'll get there.

#### Analysis: July '13

Update GHG inventories

Draft performance indicators

Complete climate preparedness reports

#### Community Engagement: Nov '13

Online engagement tool

Work with community to host meet-ups

Greenovate Boston Community Summit Formal Public Process: Jan '14

Convene formal committees

Draft CAP update

Complete CAP: End of '14

Public comments

Release plan

Performance measurement

## Where are we now?

Up Next: What can I do?

Boston's greenhouse gases (GHGs) come from buildings and transportation.

## GETTING AROUND: 31%

### AT HOME: 17%





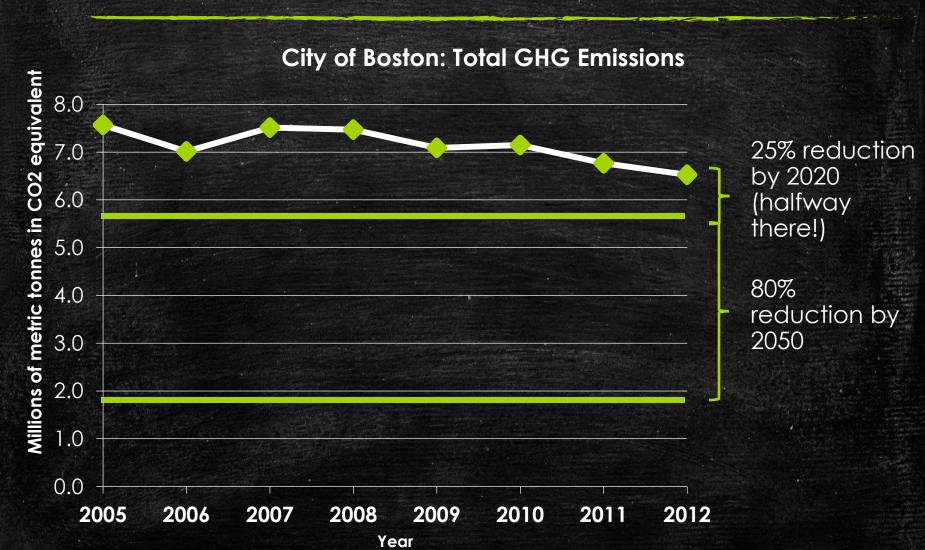
Is that old fridge a little power hungry? But they ultimately come from people.

**AT WORK: 51%** 

At work includes natural gas of large apartment buildings. Waste and rounding errors comprise remaining ~2% under our current methodology.

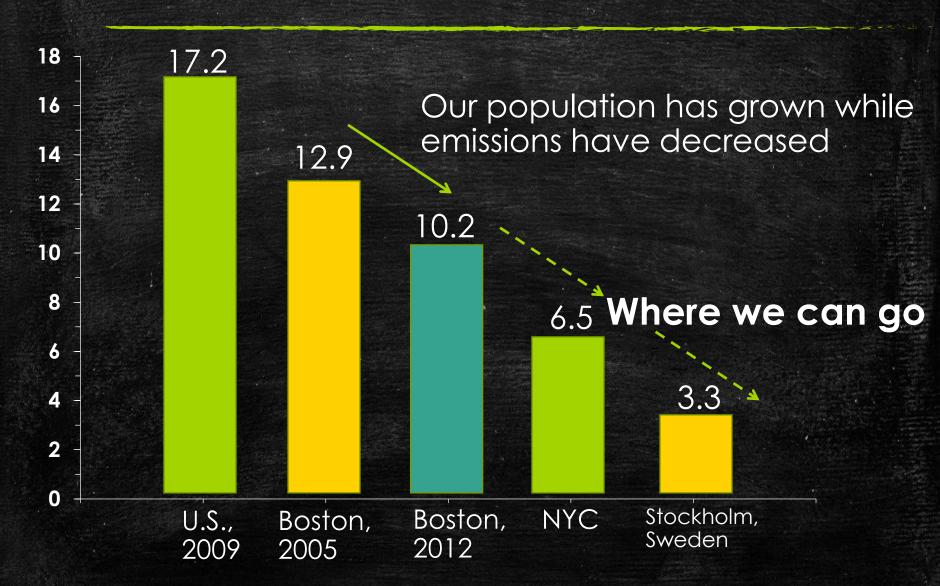


## We are making progress.



Does not include life-cycle emissions from the things we consume which would increase our footprint by 10 to 20%.

## Emissions per resident are declining.





## The City is taking action to reduce GHG emissions.

Complete Streets guidelines & expanded bike infrastructure



Renew Boston Solarize



Energy positive (E+) homes on vacant lots









Building Energy Reporting & Disclosure Ordinance



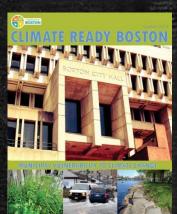
Expanded
Renew Boston to
reach more
residents & small
businesses



## Boston is also preparing.

- Green infrastructure
  - Complete Streets
  - Parks Open Space Plan Update
  - 35% tree canopy coverage by 2020
- Climate Ready Boston: Municipal Vulnerability to Climate Change
- Building Resilience in Boston
- Climate Change Preparedness and Resilience Guidelines for large development project review







# Community and individual action is making it happen.

#### Ditching the car

- Twice as many bike commuters since 2000
- 50,000 less vehicles registered in Boston than we did 5 years ago.



#### Weatherizing

 Over 5,000 residential and 700 small business have weatherized through Renew Boston



#### Going solar

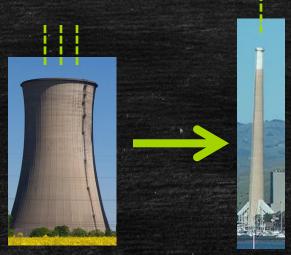
 Bostonians have Installed over 11 MW of solar energy.



But...

# Future greenhouse gas reductions will be more challenging.

Over 50% of our decrease in GHGs in the past five years came from something Boston doesn't control – a switch from dirtier coal and oil to cleaner natural gas power plants



Coal replaced by Natural Gas

We can't rely on this trend to continue. Almost all coal and oil plants have switched over to natural gas in the past decade.



## We need to be better prepared.









We need community and individual action to reach our goals.









All climate action comes down to individual choices and neighborhood actions.









## A sustainable city is a better city.

Parks that mitigate flooding



Local food production





Local, reliable & affordable energy









More trees to keep Boston cool

communities iffordable green

What can I do?

## We need your help.



Participate in CAP update

Take climate action





Spread the word

# The Climate Action Plan is important

More or less
More or less
More or less
More or less
Whee
Whee
Whee
Whee

Where should new dike lanes go?

Should residents have to with

what should we do with food waste?

Should Boston be more dense?

How can everyone in Boston go solar?

## Your input is important.

- City needs to hear from you.
- The plan will determine the City's sustainability priorities.
- We must implement the plan together, so everyone should help shape it.





# There are many ways to provide input.

Log on to **Engage.GreenovateBoston.org** and join the conversation.

Attend (or host!) a Greenovate Boston Meet-up.

Check out the Summit in April.



### Take individual actions now.

Go to GreenovateBoston.org to learn about actions you can take.

Want to get credit? Text a yellow word below to

617-945-8867

to join the Carbon Challenge.

- TRY BIKING. Don't have a bike yet? Look into a used or new bike, or Hubway membership for one quick trip and some outdoor fun.
- TURN IT DOWN. Set your thermostat 2 degrees lower this winter. It's one of the best actions for fighting climate change!
  - member, or co-worker to do any of these actions by texting the above number!

CAN YOUR
NEIGHBORHOOD GET 200
ACTIONS?

## Take action in your community.

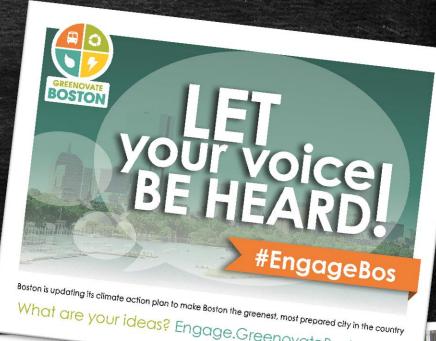
Use this slide to highlight organizations and sustainability activity going on in your community that people can participate in.

## There is power in numbers.

Build awareness

Inspire action

Achieve Boston's climate goals







## Key takeaways

Climate change has serious implications for Boston.

We must work together to both reduce our emissions and prepare for the impacts of climate change.

We need your input and action to reach our climate goals!



### Questions and Discussion



Engage.GreenovateBoston.org