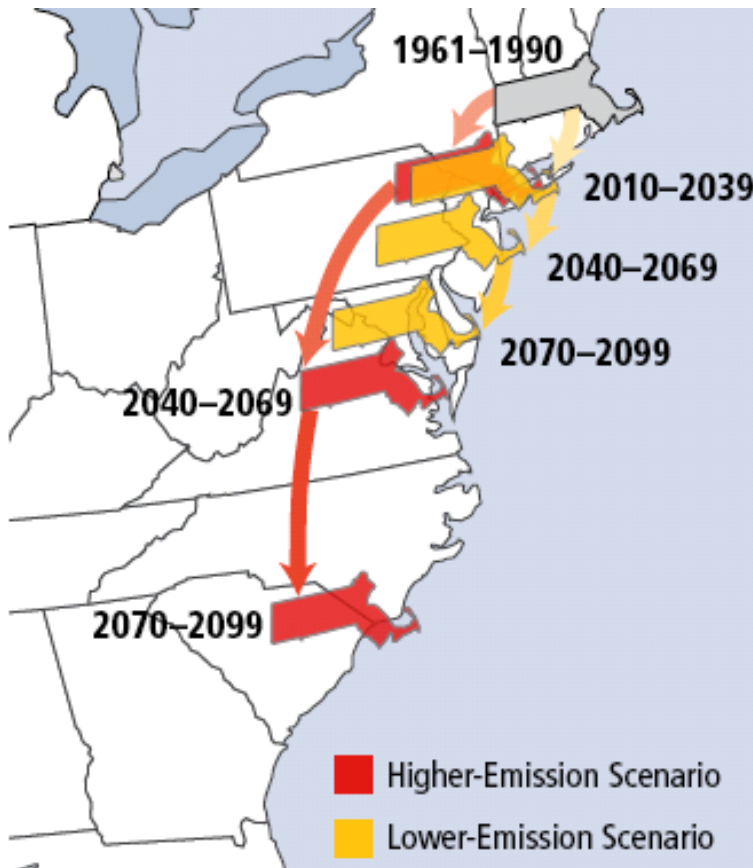


# **Massachusetts: National Leadership in Climate and Energy Policy**

## **The Global Warming Solutions Act of 2008: Climate Protection and Green Economy Act – Chapter 21N**

# Climate Change: Massachusetts Impacts



Source: UCS, 2007

- Rising Sea Levels →  
Coastal Erosion
- Warmer Water →  
Degraded Habitats
- Hotter Summers →  
Cranberry Industry and  
Agriculture Impacts  
Health Impacts  
More Droughts
- Warmer Winters →  
Less Maple Syrup  
Less Snow/ Skiing

## Background

**The 2008 Legislative Session resulted in five nation-leading pieces of legislation that put Massachusetts at the national forefront addressing climate and building a clean energy economy.**

- Improving energy reliability & security
- Lowering energy costs
- Growing clean energy jobs and businesses
- Addressing climate change

## The Global Warming Solutions Act

- Mandatory Reporting of GHG Emissions
- Track Statewide GHG Emissions
- Develop 1990 Baseline and 2020 BAU Projection
- Develop Plans to Achieve Statewide Reductions
- Convene Advisory Committees: Climate Change Adaptation and Climate Protection and Green Economy

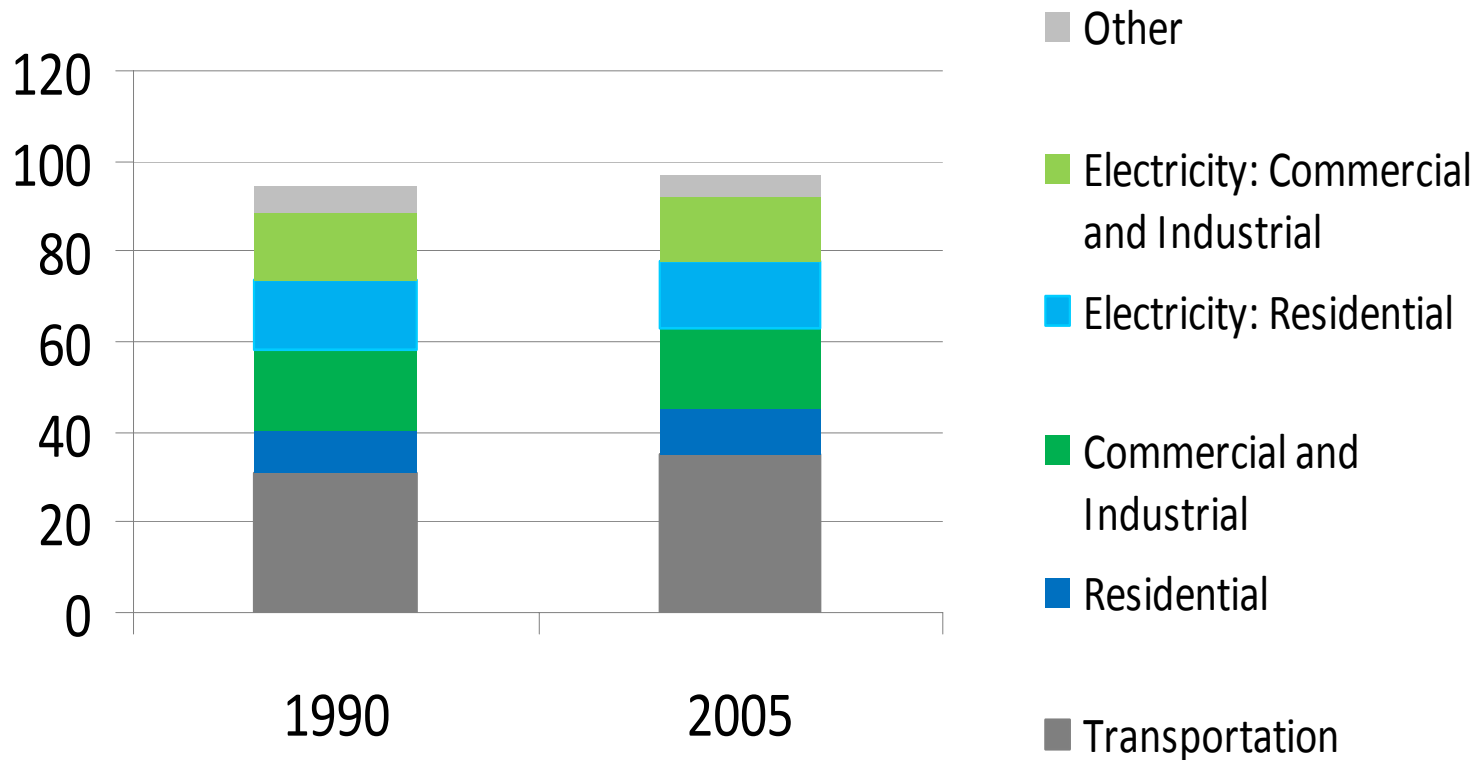
## Climate Change Adaptation Advisory Committee

- Analyze strategies for adapting to predicted impacts of climate change
- Report due to December 31, 2009
- Private/public subcommittees
  - Natural Resources and Habitat
  - Local Economy
  - Human Health and Welfare
  - Key Infrastructure
  - Coastal Zone and Oceans
- First meeting: June 4, 2009

## Climate Protection and Green Economy Advisory Committee

- Members represent all sectors of the economy and key stakeholders, including
  - commercial, industrial, manufacturing, transportation, low-income consumers, energy generation and distribution, environmental protection, energy, local government and academia
- Advise EEA on development of the Commonwealth's economy-wide plan to meet the goals of the Act using strategies that combat climate change and drive job creation and economic prosperity
- First meeting: May 11, 2009

# Massachusetts GHG Emissions by sector



"Other" includes Agriculture, Waste, and Natural Gas transmission and distribution

## GHG Emission Reduction Targets and Plans

- Statewide GHG emissions limits:
  - 2020 emission limit - **10-25%** below 1990 level
  - Interim 2030 emission limit
  - Interim 2040 emission limit
  - 2050 emission limit - at least **80%** below 1990 level
- Economy-wide emission reduction plans



## **GWSA 2010-2013 Milestones**

- 1/1/11 – Executive Office of Energy and Environmental Affairs (EEA) Set Reduction Target for 2020, Including Plan to Achieve Target
- 1/1/12 – MassDEP Promulgate Regulations for 2020 Plan
- 1/1/13 – Regulations to Take Effect

## State Agency Climate Policy Workgroups

- Development patterns and travel behavior
- Materials and waste management
- Transportation vehicle efficiency
- Buildings energy efficiency
- Industrial energy efficiency
- Low-carbon fuel supply
- Energy sector GHG sequestration
- Industrial process emissions (non-energy)
- Agricultural emissions
- Forests and land-use change
- Economy-wide price of carbon
- Modeling/analytical support

## What is Ahead for GWSA

- Evaluate Economy-Wide Policy Options to Obtain GHG Reductions
  - State Agency Work Groups
  - Public Discussions with Experts: July 7-17, 2009
  - General Public Meetings: Fall 2009
- Spring/Summer 2010 – Public Meetings to Discuss Proposed 2020 Reduction Targets and Plan
- CPGE Advisory Committee Meetings: Sept. 16, 2009, December 9, 2009, March 24, 2010
- CC Adaptation Advisory Committee Meetings: July 30, 2009, September 9, 2009, October 20, 2009