

Massachusetts: National Leadership in Climate and Clean Energy

Global Warming Solutions Act & Green Communities Act

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Background

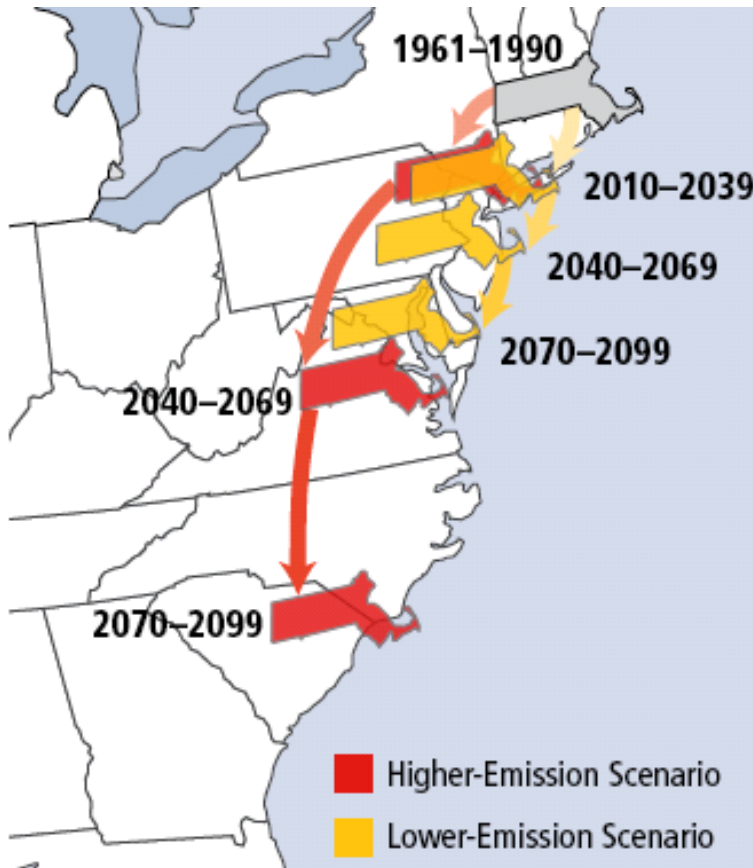
The 2008 Legislative Session resulted in five nation-leading pieces of legislation that put Massachusetts at the national forefront addressing climate and building a clean energy economy.

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

Overview

- The Global Warming Solutions Act (GWSA)
- The Green Communities Act (GCA)
- 1990 Greenhouse Gas Baseline Emissions
- The Projected 2020 Business as Usual Emissions Level

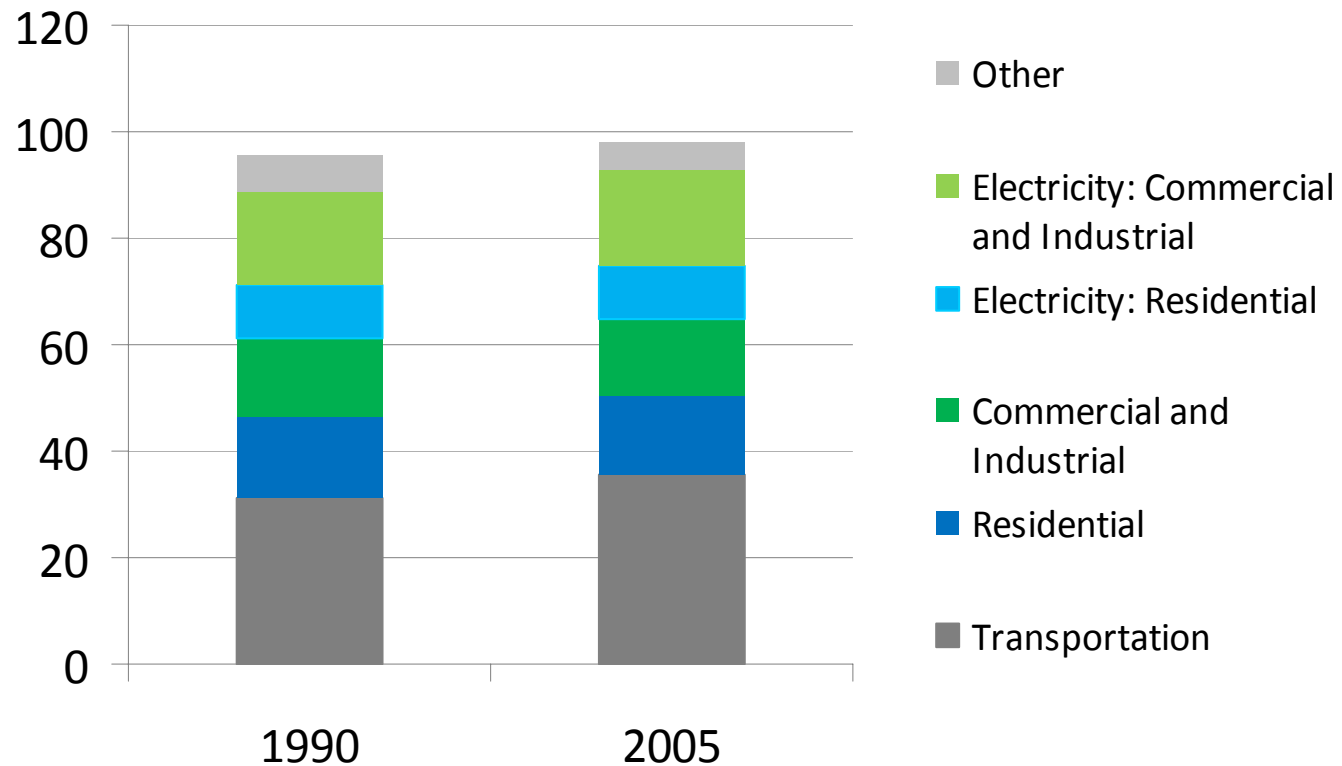
Climate Change: Massachusetts Impacts



Source: UCS, 2007

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

Massachusetts GHG Emissions by sector



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

The Global Warming Solutions Act

Major Provisions:

- **Require Mandatory Reporting of Greenhouse Gas (GHG) Emissions**
- **Track Statewide GHG Emissions**
- **Develop 1990 Baseline and 2020 BAU Projection**
- **Convene mitigation advisory committee and adaptation advisory committee**
- **Develop Targets and Plans to Achieve Statewide Reductions**
 - 10%-25% below 1990 levels by 2020
 - 80% below 1990 levels by 2050
- **Economy-wide emission reduction plans**

GWSA Milestones

- July 2009 – Complete Comprehensive GHG Reporting Regulations & **and Publish 1990 Baseline and 2020 Business as Usual Projection (Hearing May 19, 2009)**
- Jan 2011 – Set Target for 2020, Including Plan to Achieve Target
- Jan 2012 – MassDEP to Promulgate Regulations for 2020 Plan (to take effect Jan 2013)

Overview of Green Communities Act

- 1) Establishes Green Communities program
- 2) Expands renewable energy goals
- 3) Enhances market opportunities for renewables
- 4) Unleashes energy efficiency

Also: RGGI authorization, MRET changes, State facilities, Ratepayer Advocacy in AGs office, DPU steam system oversight, support hybrids, form economic target areas

GWSA

Proposed 1990 Greenhouse Gas Baseline Emissions

- Future emission reductions will be measured from the 1990 Greenhouse Gas Emission Levels.
- The proposed 1990 level was derived using a USEPA tool designed to estimate such emissions and using data on electricity imports.

GWSA – 1990 Greenhouse Gas Baseline Emissions

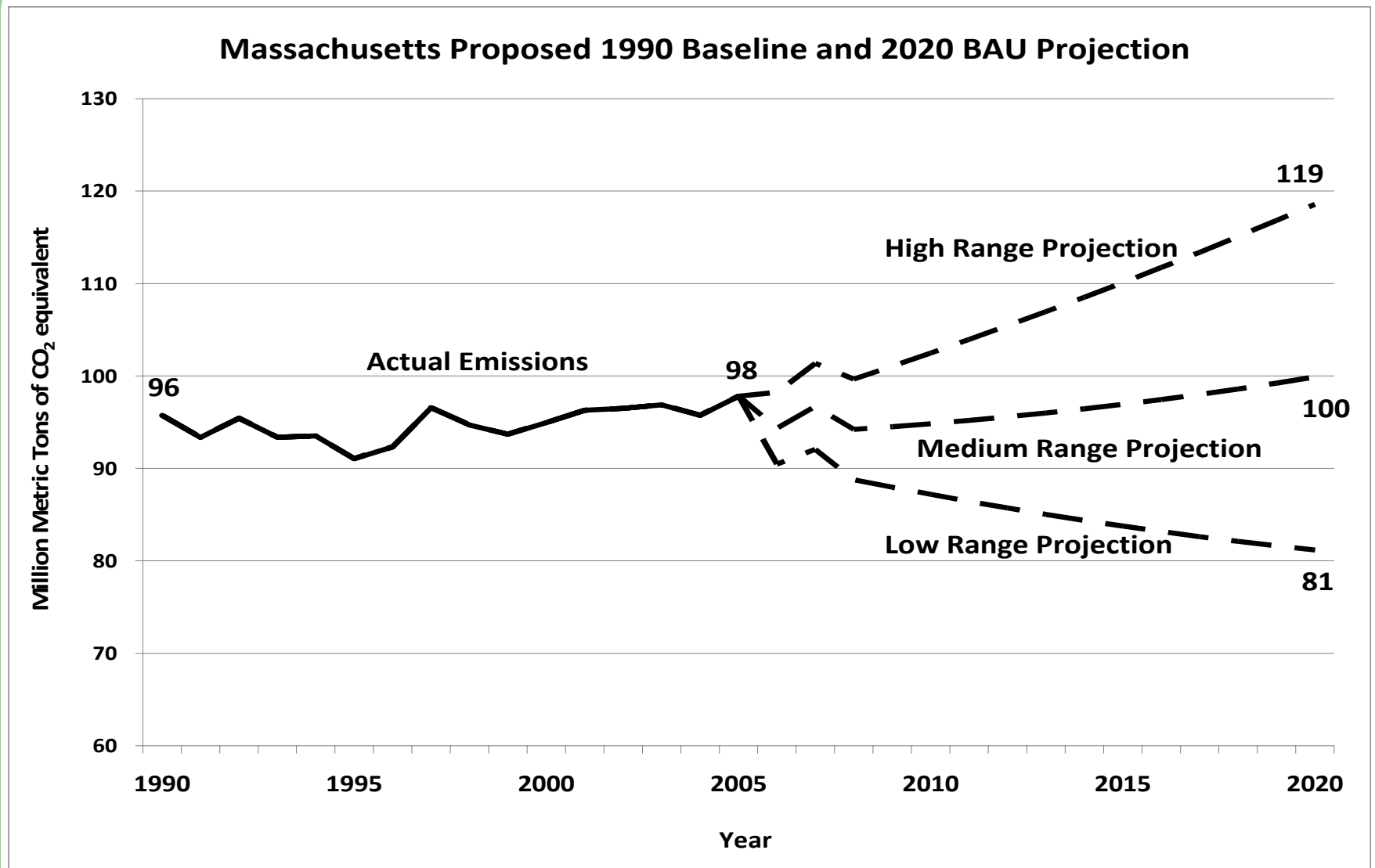
(million metric tons of carbon dioxide equivalents)

Transportation	30
Electricity	28
Residential	15
Commercial and Industrial	15
Other*	7
Total	96

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

GWSA - The Proposed 2020 Business as Usual Emissions Projection

- BAU Projection has been developed based on an extrapolation of historical emission trends
- Because of uncertainties with projections, BAU is shown as a range



Stakeholder Involvement for the 1990 Baseline and 2020 BAU Projection

- 5 Public Meetings
- May 19, 2009 - Public Hearing
- June 1, 2009 - Comment Deadline
- July 1, 2009 - Final 1990 Baseline and 2020 BAU Projection Published