

Rhode Island's Greenhouse Gas Inventory

Thursday, March 20, 2014

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Rhode Island Executive Climate Change Council Meeting

The NESCAUM logo features the word "NESCAUM" in a bold, black, sans-serif font. Above and below the text are two stylized, dark blue wavy lines that resemble water or a landscape feature.

NESCAUM



NESCAUM

*Northeast States for Coordinated
Air Use Management*



- Non-profit association, created by states in 1967
- Board made up of state air directors
- Helps states develop regional policy positions and solutions
- Provides states with scientific, technical, and policy support

Existing GHG Commitments: Regional Goals

New England Governors/Eastern Canadian Premiers

Climate Change Action Plan 2001

August 2001

Prepared by

The Committee on the Environment and
the Northeast International Committee on Energy
of the Conference of New England Governors and Eastern Canadian Premiers

Short-term

- 1990 levels by 2010

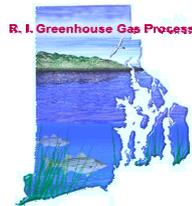
Mid-term

- 10% below 1990 levels by 2020

Long-term

- 75-80% below current levels

Existing GHG Commitments: Rhode Island GHG Action Plan



Rhode Island Greenhouse Gas Action Plan

Developed by
The Rhode Island Greenhouse Gas Stakeholder Process

Convened by
Rhode Island Department of Environmental Management
Rhode Island State Energy Office

Project Manager/Facilitator
Raab Associates, Ltd.

Technical/Policy Consultant
Tellus Institute

July 15, 2002

- * Set Rhode Island goals equal to regional goals
- * Proposed program & policy options to meet goals

Report Back on GHG Emissions



35th Annual Conference of
New England Governors and
Eastern Canadian Premiers

Halifax, Nova Scotia, July 10-12, 2011

35^e Conférence annuelle des
gouverneurs de la Nouvelle-Angleterre et
des premiers ministres de l'Est du Canada

Halifax, Nouvelle-Écosse, du 10 au 12 juillet 2011

RESOLUTION 35-5

RESOLUTION CONCERNING CLIMATE CHANGE

NESCAUM prepared:

1. GHG inventory to assess achievement of goals
2. Major point sources and opportunities for GHG reductions

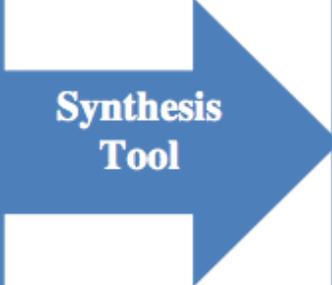
How Do States Prepare GHG Inventories?

EPA's State Inventory Tool (SIT)

SIT Modules

- Fossil fuel combustion
- Stationary combustion
- Mobile combustion
- Natural gas and oil systems
- Coal mining
- Industrial processes
- Agricultural processes
- Municipal solid waste
- Wastewater
- Land use, land use change, and forestry
- Indirect emissions from electricity consumption

Synthesis
Tool



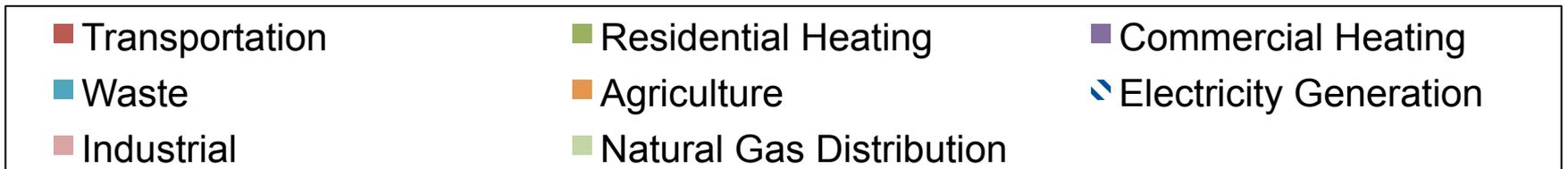
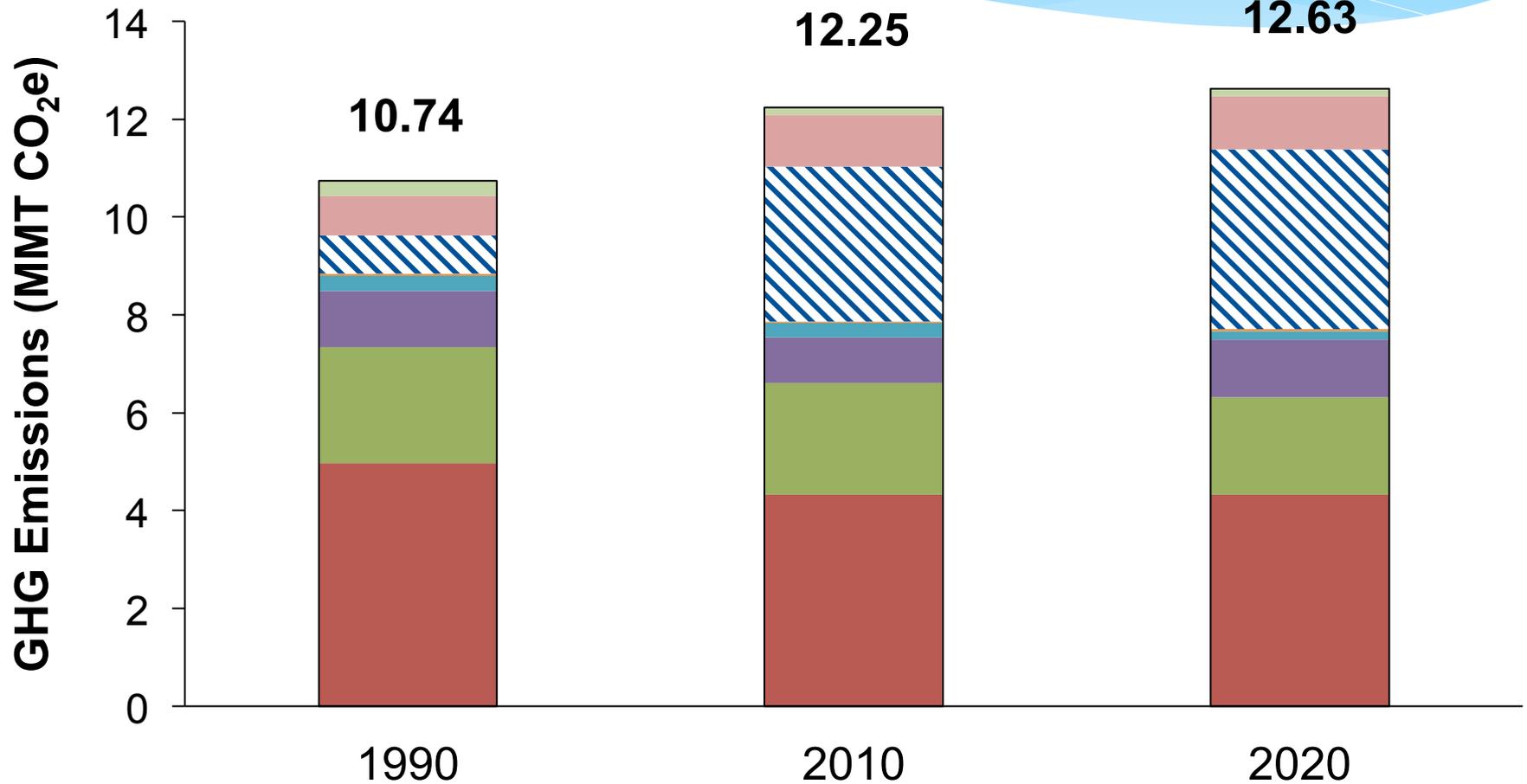
SIT Inventory Sector

- Energy
- Industrial processes
- Agriculture
- Land use, land use change, and forestry
- Waste
- Indirect emissions from electricity consumption

GHG Inventory Approach



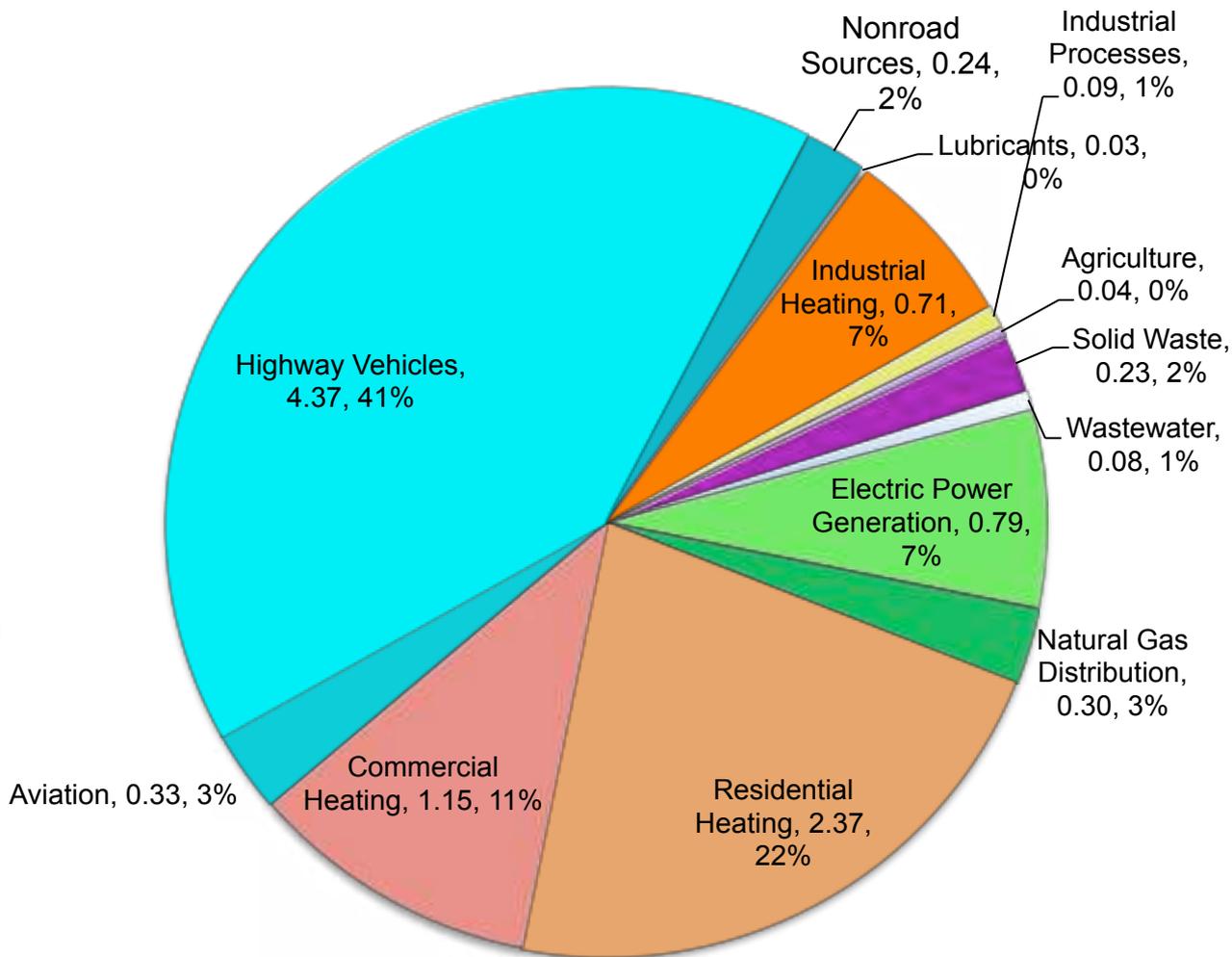
GHG Inventory Summary



1990:

10.74 MMT CO₂e

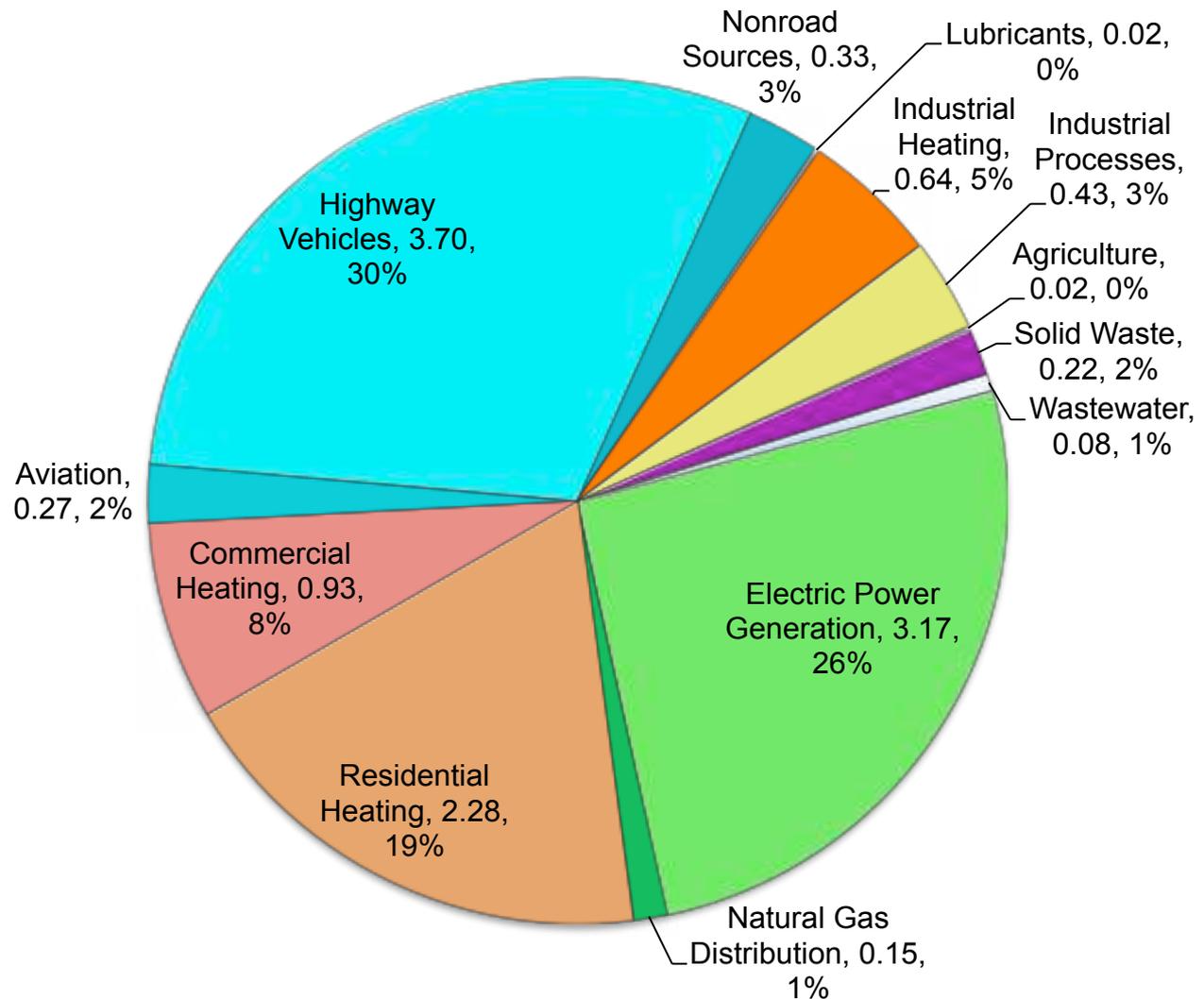
- Sector
- GHG Emissions (MMT CO₂e)
- Contribution (%)



2010:

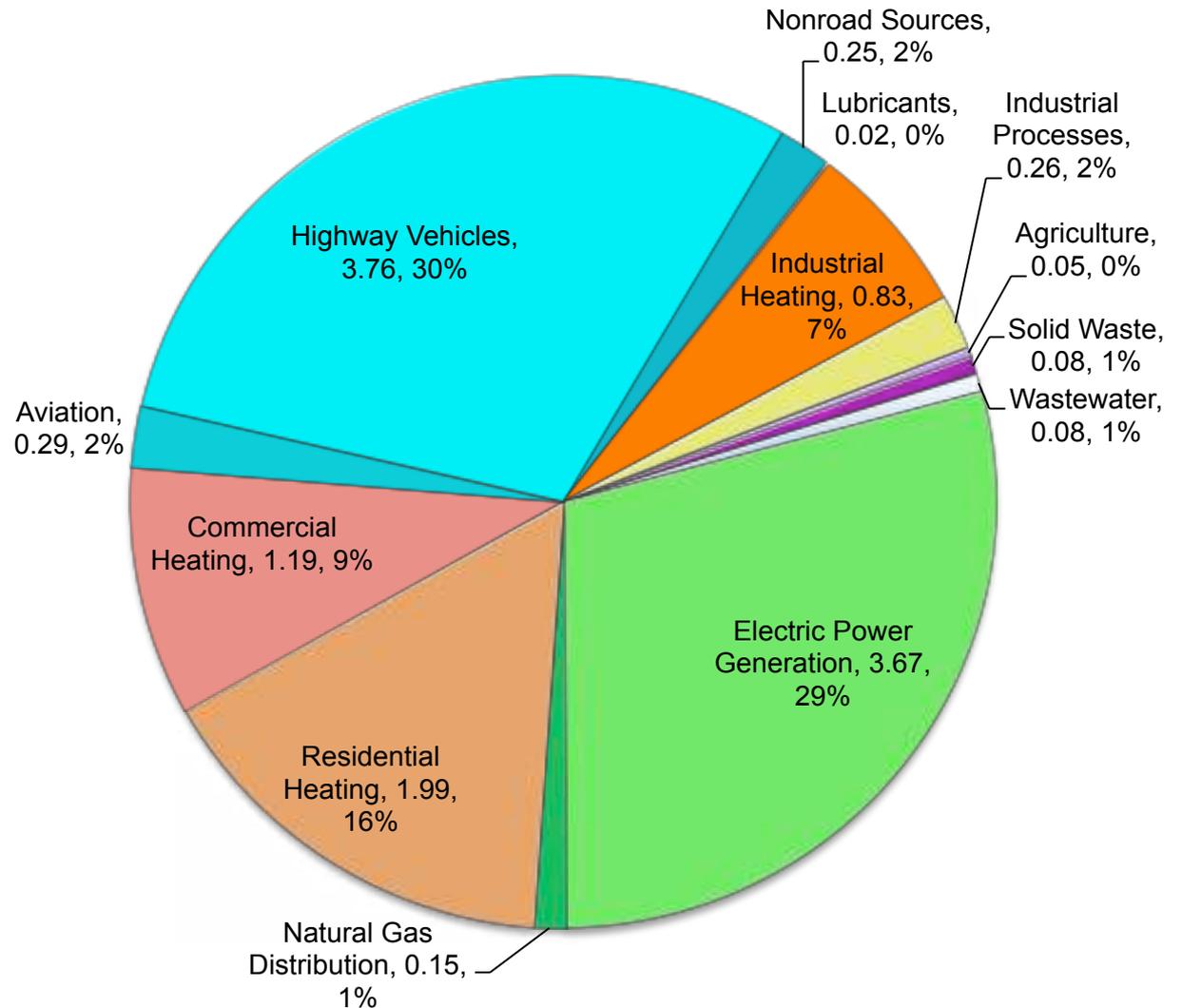
12.25 MMT CO₂e

- Sector
- GHG Emissions (MMT CO₂e)
- Contribution (%)

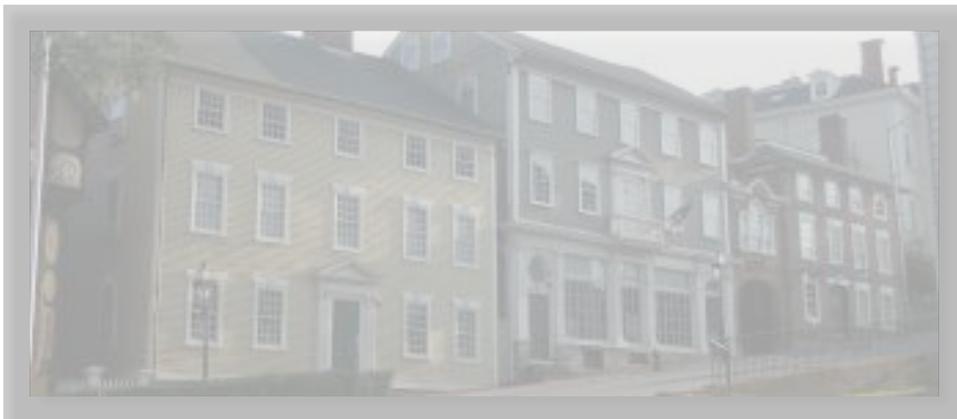
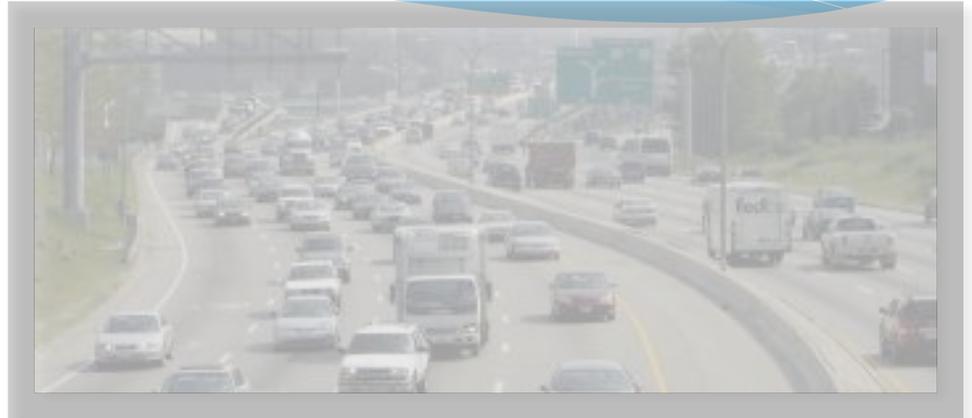


2020 Projection: 12.63 MMT CO₂e

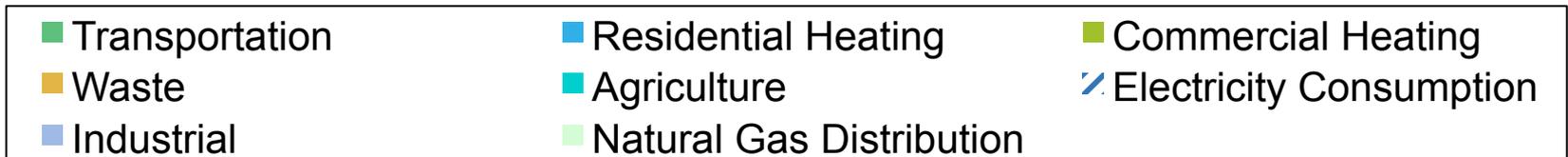
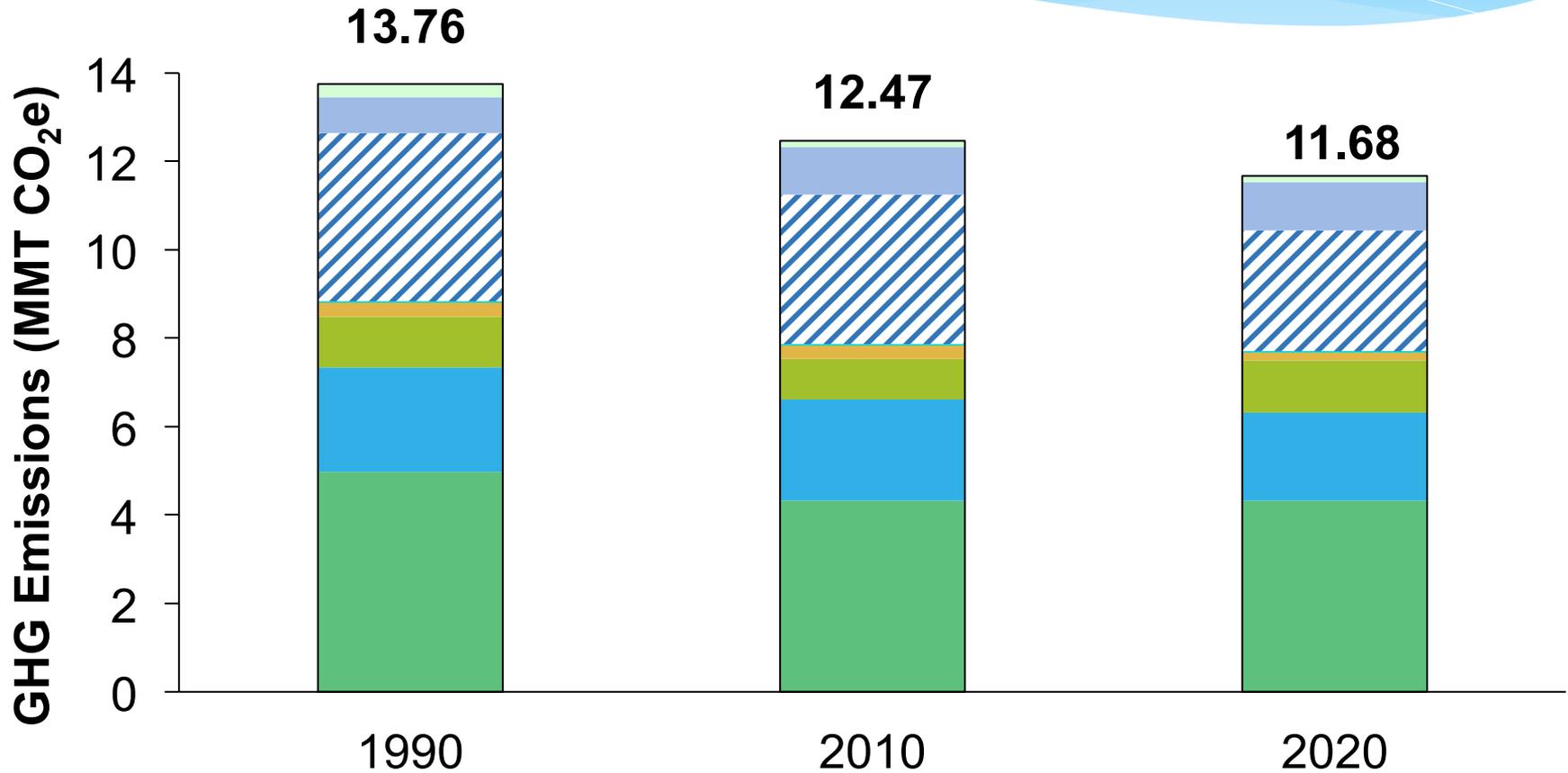
- Sector
- GHG Emissions (MMT CO₂e)
- Contribution (%)



GHG Inventory: Consumption-based Approach



GHG Inventory: Consumption-based



Two Perspectives: Two Results

Short-term

- 1990 levels by 2010

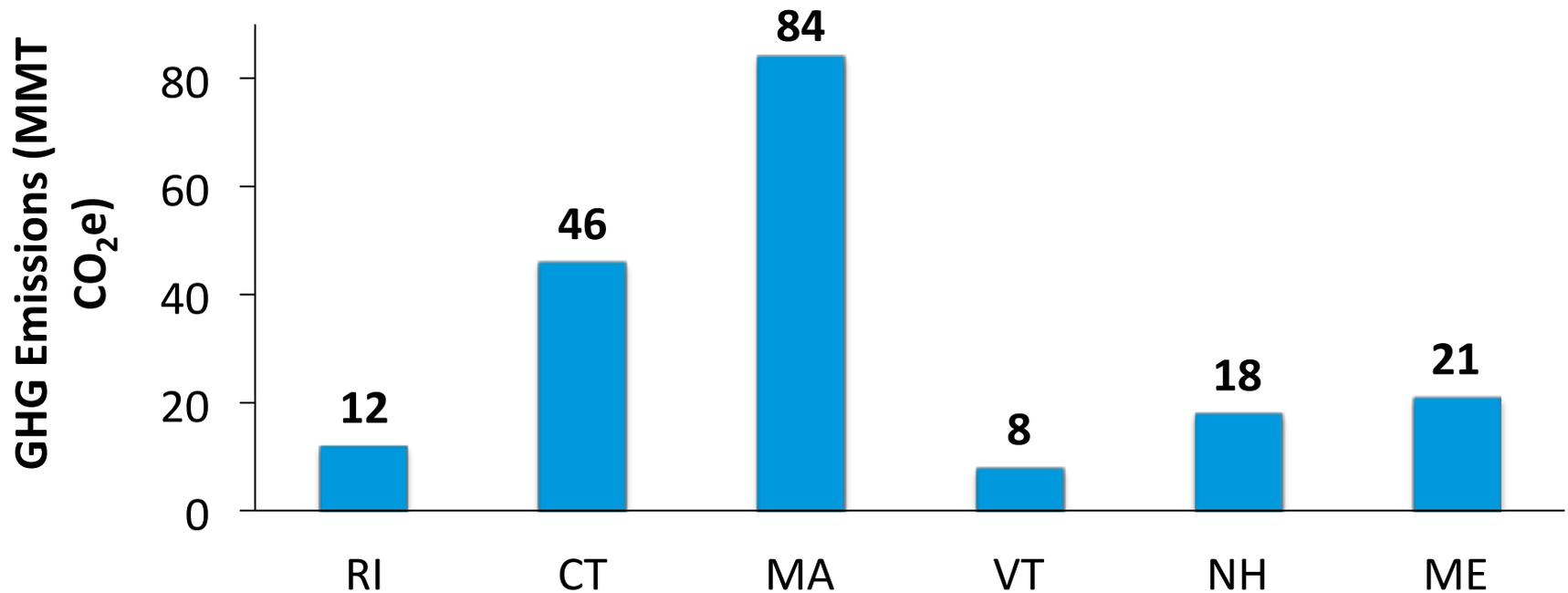
Mid-term

- 10% below 1990 levels by 2020

Rhode Island GHG Emissions (MMT CO₂e)

Emissions Goals/Estimates	2010	2020
Generation-based goal	10.74	9.67
Generation-based emissions	12.25	12.63
Consumption-based goal	13.76	12.38
Consumption-based emissions	12.47	11.68

Regional Perspective: New England States' 2010 GHG Emissions



Source: RI DEM



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