

The New Hampshire Climate Change Action Plan

Presentation to
Energy Efficiency and Sustainable Energy Board

January 9, 2009

New Hampshire Department of Environmental Services

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Climate Change Policy Task Force Membership

Twenty-nine (29) members

- State agency commissioners;
- House and Senate members;
- General commerce and industry;
- Environmental interests;
- Forestry sector;
- Science/academia;
- Public utilities;
- Municipal government; and
- Insurance industry.

Technical and Policy Working Groups

- Six (6) Working Groups
- 125+ Participants
 - Local Energy Committee Members
 - Planners
 - State Agency Staff
 - Task Force members
 - Non-profit
 - Tradespeople
 - Lobbyists

Public Involvement & Social Networking

- Six (6) Official Listening Sessions
 - 15 Locations
 - 275 Participants
 - 100 Commenters
- Invited presentations to Local Energy Committees; Environmental Groups; BIA
- Targeted outreach to groups that did not participate in the Working Group process
- 100+ Written Comments

Draft Task Force Principles

- Reduce greenhouse gas emissions to 80% below 1990 levels by 2050.
- Create economic opportunity, while considering all costs and benefits.
- Focus investments in a phased-in approach.
- Do not further disadvantage already disadvantaged populations

Draft Task Force Principles Continued

- Reduce the vulnerability of the natural and built environment.
- Engage the public to take action.
- Sustain the state's resources.
- Integrate accountability and adaptability into the Plan's implementation

Draft Outcomes

1. Maximize efficiency in buildings.
2. Increase renewable/low emitting resources in a long-term sustainable manner.
3. Support regional/ national actions to reduce vehicle emissions.
4. Reduce vehicle emissions through state actions.
5. Encourage land use patterns that enable fewer Vehicle-Miles Traveled (VMT).

Draft Outcomes

Continued

6. Reduce VMT through an integrated multi-modal transportation system.
7. Protect natural resources to maintain the amount of carbon fixed/sequestered.
8. Lead by example in government operations.
9. Plan for existing and potential climate change impacts (i.e., adaptation).
10. Develop an integrated education, outreach and workforce training program.

Maximize efficiency in buildings

- New residential construction that is 100% more efficient
- Retrofit 30,000/yr existing residential buildings to be 60% more efficient
- Retrofit existing Commercial, Industrial, and Municipal Buildings to be 50% more efficient
- Install higher efficiency equipment, processes, and systems
- Increase the Use of Combined Heat & Power

Maximize efficiency in buildings

- Consider alternative rate structure
- Upgrade energy building codes
- Increase energy code compliance
- Energy Properties listing
- Conserve existing building stock

Increase renewable/low emitting resources

- Promote Renewable Energy through the Electric Portfolio Standard (RPS)
- Implement Regional Greenhouse Gas Initiative (RGGI)
- Increase Renewable Energy and Low-CO₂e Thermal Energy Systems
- Address Barriers to Low and Non – Emitting CO₂ Electric Generation

Increase renewable/low emitting resources

- Enable Importation of Canadian Hydro and Wind Generation
- Allow Regulated Utilities to Build Limited Renewable Generation
- Identify and Deploy the Next Generation of Electric Grid Technologies
- Promote Low and Non-CO₂-Emitting Distributed Generation
- Encourage the Use of Biogenic Waste Sources for Energy Generation

Lead by example in government operations

- Establish an Energy Management Unit
- Establish a Self-Sustaining Fund for Energy Efficiency Projects in State Government
- Provide for the Establishment of Local Energy Commissions
- Increase Funding for High Performance Public Schools

Integrated education, outreach and workforce training program

- Overarching Outreach and Education Plan
- Energy Efficiency and Conservation in School Curricula
- Building Management Education Programs
- Residential Education and Outreach
- Comprehensive Energy Efficiency and Renewable Energy Education
- Energy Efficiency and Sustainable Energy Systems Web Portal

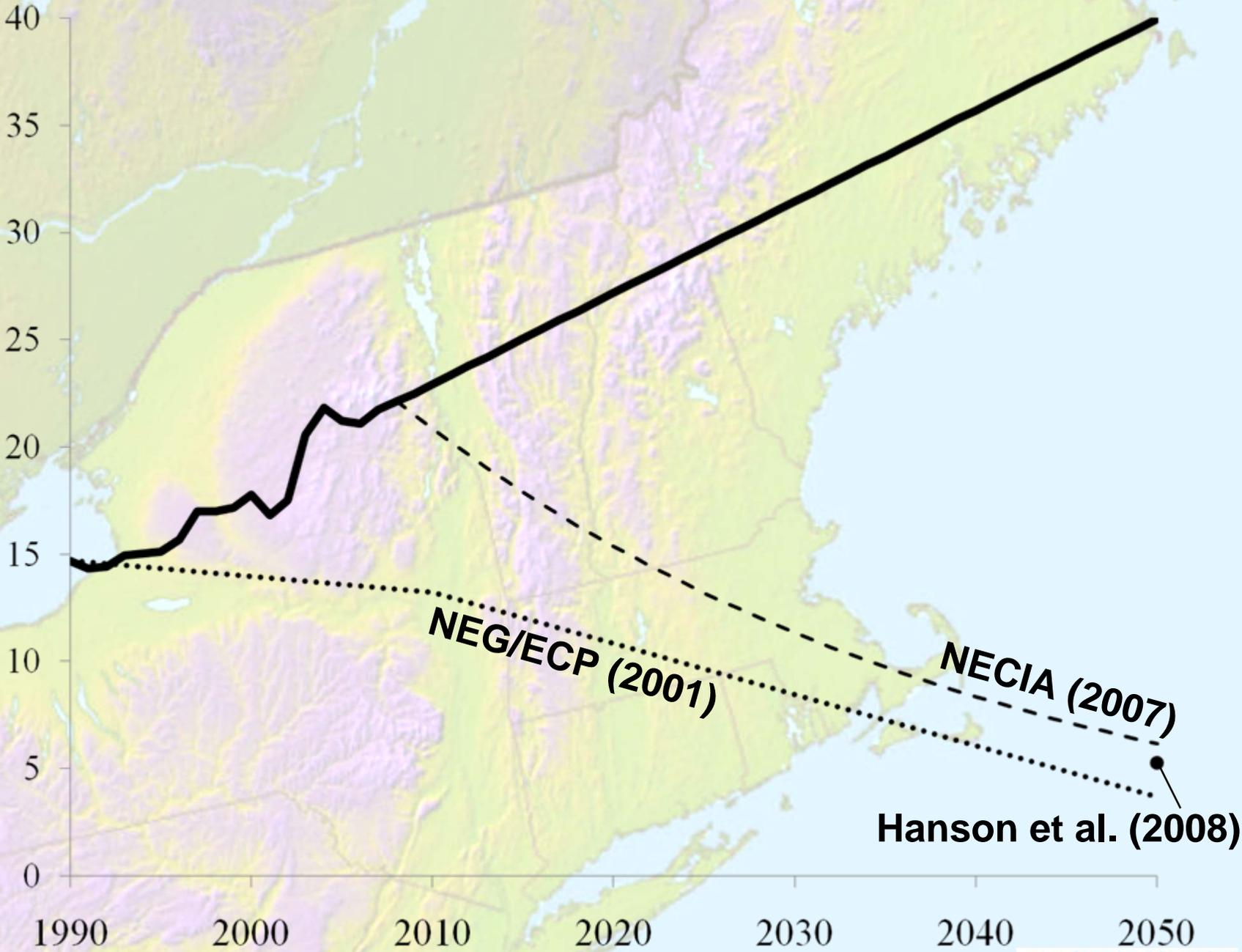
Carbon Solutions New England Analyses for the NH Climate Change Policy Task Force

Cameron Wake, Matt Frades, and George Hurt
Institute for the Study of Earth, Oceans, and Space, UNH

Matt Magnusson and Ross Gittell
Whittemore School of Business and Economics, UNH

NHCF 6 Nov 2008

NH Emissions [Million metric tons CO₂ per year]



NEG/ECP (2001)

NECIA (2007)

Hanson et al. (2008)

NH Emissions [Million metric tons CO₂ per year]

40
35
30
25
20
15
10
5
0

1990 2000 2010 2020 2030 2040 2050

BAU

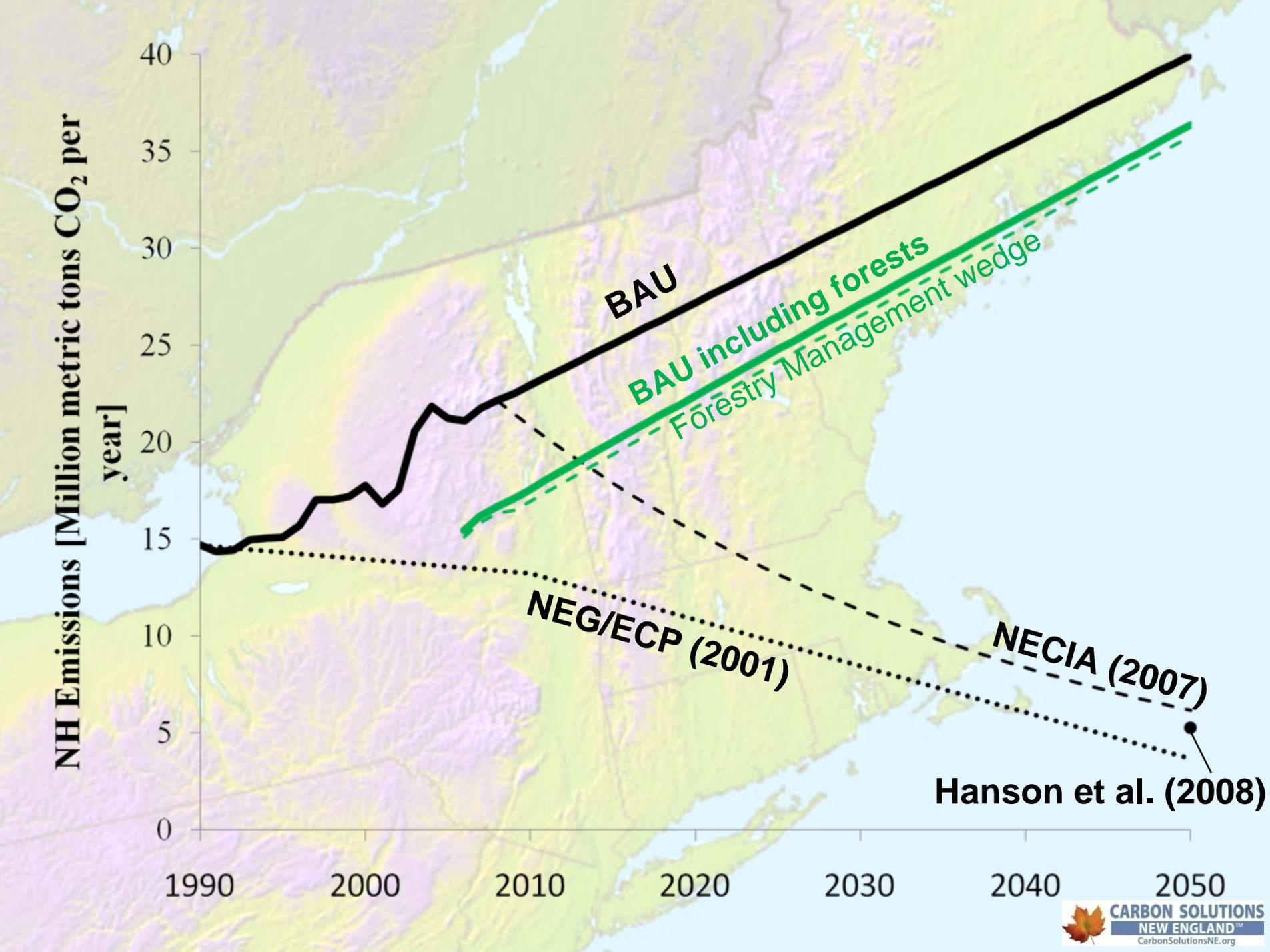
BAU including forests

Forestry Management wedge

NEG/ECP (2001)

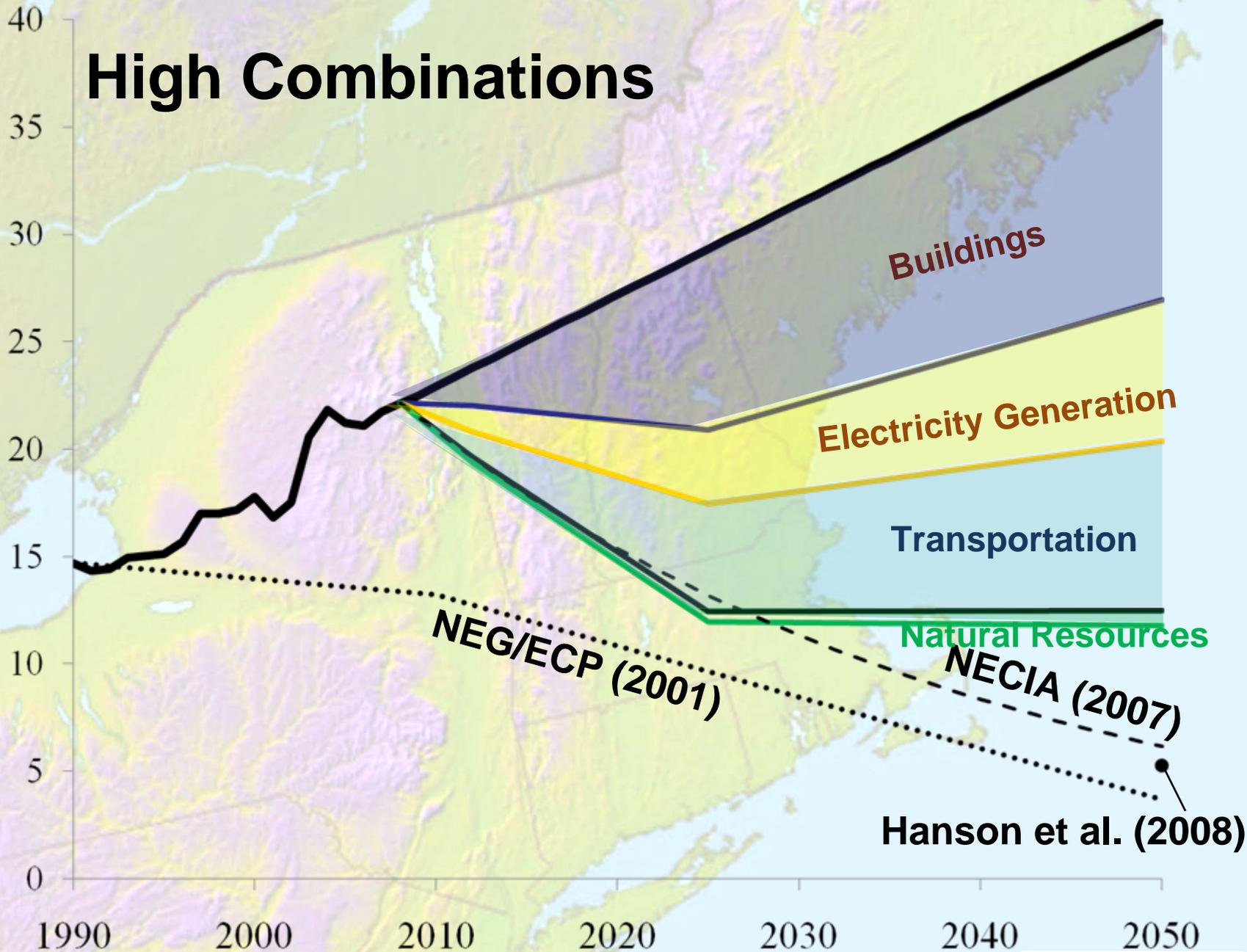
NECIA (2007)

Hanson et al. (2008)

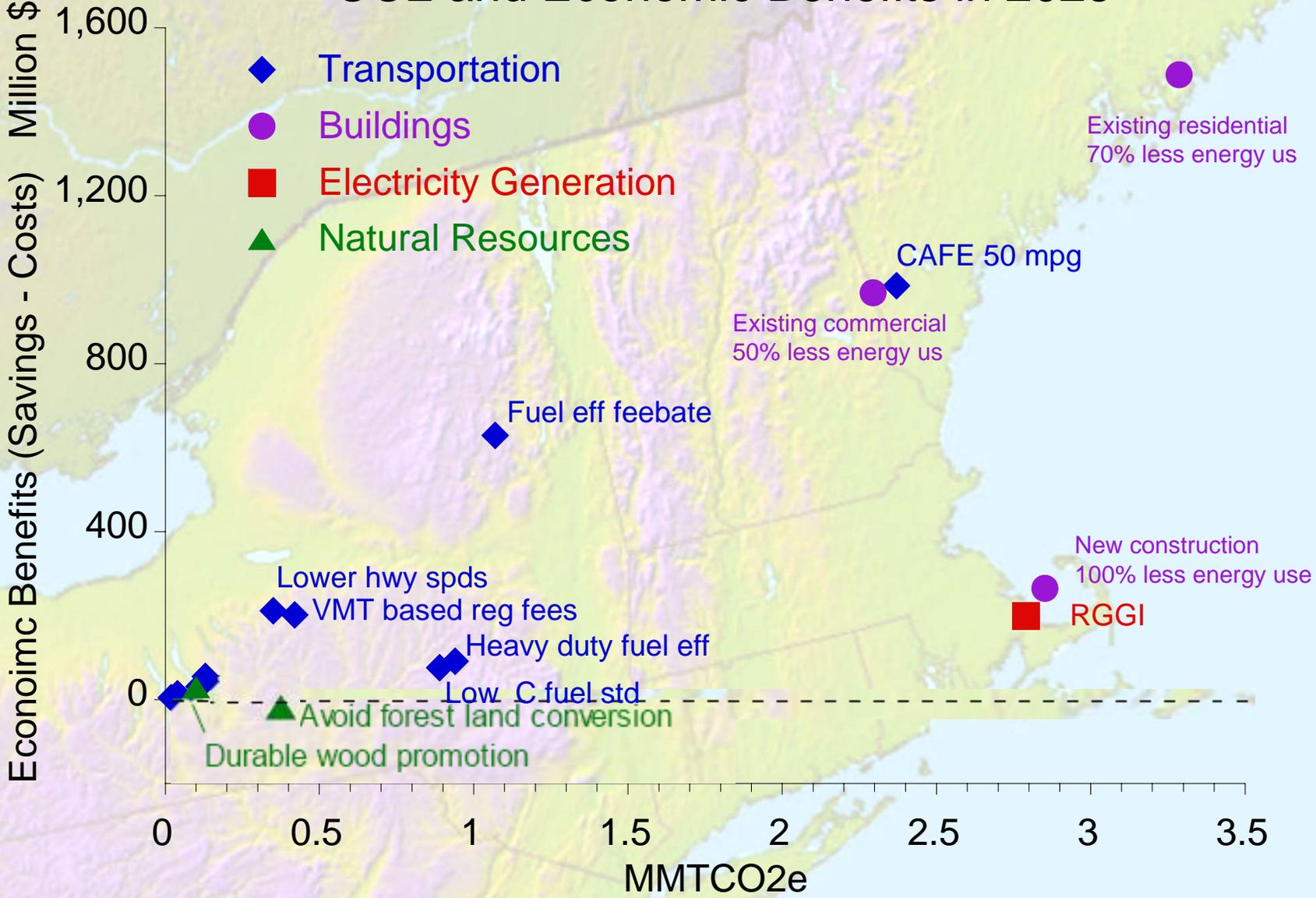


High Combinations

NH Emissions [Million metric tons CO₂ per year]



CO2 and Economic Benefits in 2025



Action Plan “Roll-Out”

- January 2009 Implementation subcommittee
- Late January 2009
 - Submit final Climate Change Action Plan to Governor Lynch
- February 2009
 - Public Release of the Action Plan

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