

The New Hampshire Climate Change Action Plan

*8th Task Force Meeting
NH Public Utilities Commission
December 15, 2008*

Revised Schedule

- **December 19, 2008**
 - Submission of Draft Final Action Plan to the Task Force
- **January 5, 2009**
 - Final Task Force Comments Due
- **Late January 2009**
 - Final Action Plan submitted to Governor Lynch

Revised Report and Chapter Names

New Hampshire Climate Action Plan

*Framing New Hampshire's Energy, Environmental and
Economic Development Future*

Chapter 1: Introduction

Chapter 2: Task Force Recommendations

Chapter 3: Adapting to a Changing Climate

Chapter 4: Economic Opportunities

Chapter 5: Summary of Actions and Implementation

Chapter 6: Moving the Plan Forward

Appendices

Appendix 1: Process

Executive Order

Task Force Members

Working Group Members

Voting Record

Appendix 2: Public Comment

Summary of Verbal Comments

Summary of EGU Comment Period

Written Public Comments

Letters

Emails

Appendices Cont'd

Appendix 3: Electric Generation and Usage

Appendix 4: Residential, Commercial and Industrial

Appendix 5: Transportation and Land Use

Appendix 6: Agriculture, Forestry and Waste

Appendix 7: Government Leadership and Action

Appendix 8: Adaptation

Appendices Cont'd

Appendix 9: CSNE Analysis Tables

Appendix 10: CSNE Approach and Assumption

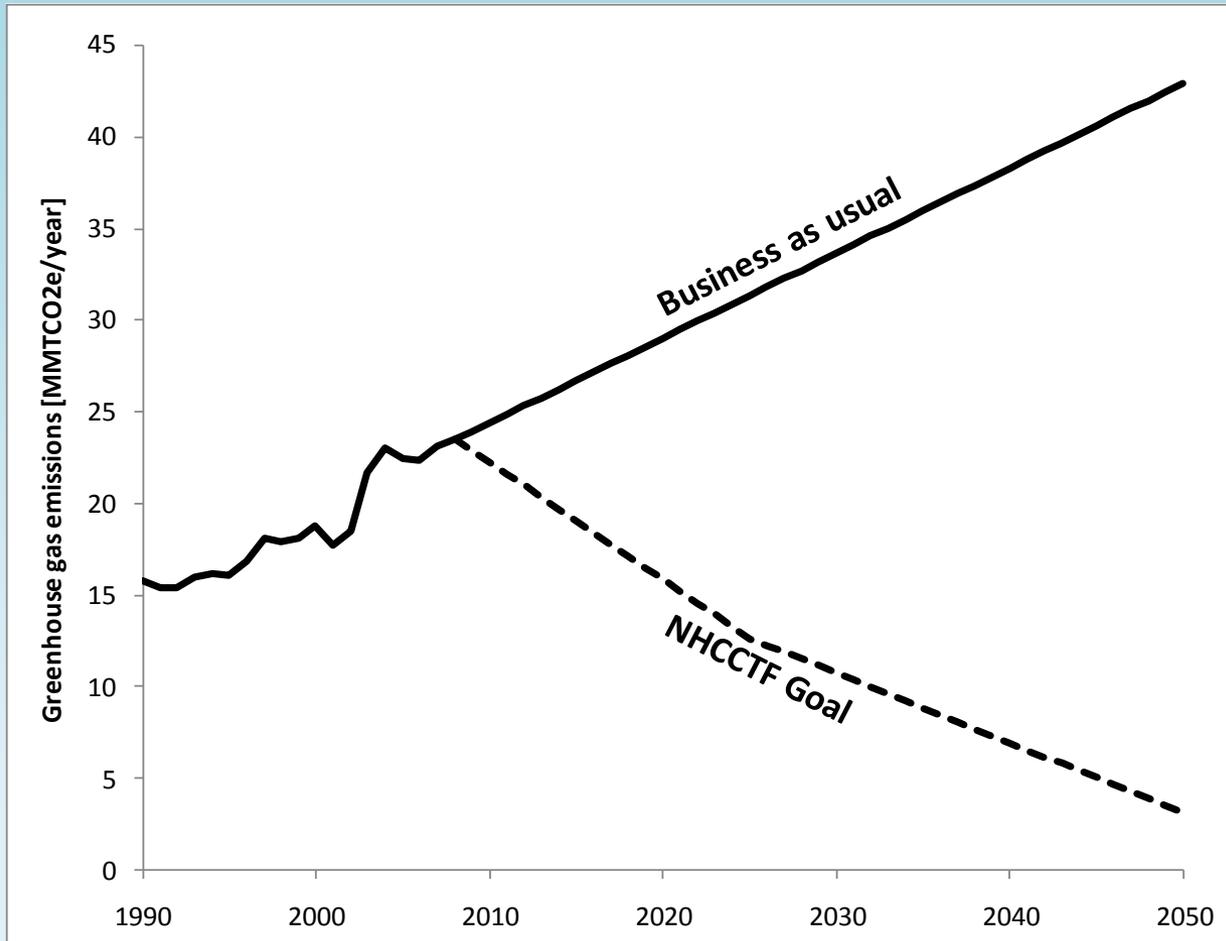
Climate Action Plan

Greenhouse Gas Emission Goals

Year	Goal Emission Level [MMTCO₂e]	% Below 1990	% Below BAU
2008	23.57	(49.3%)	-
2025	12.67	19.7%	59.6%
2050	3.16	80.0%	92.6%

Climate Action Plan

Greenhouse Gas Emission Goals



Climate Action Plan Task Force Voting

*Essential Outcomes &
Potential Recommended Actions*

1. Maximize energy efficiency in buildings.

- **Maximize Efficiency in New Construction (RCI 1.1)**
- **Maximize Energy Efficiency in Existing Residential Buildings (RCI 1.2)**
- **Maximize Energy Efficiency in Existing Commercial, Industrial, and Municipal Buildings RCI 1.3**
- **Install Higher-Efficiency Equipment, Processes, and Systems (RCI 2.1)**
- **Increase the Use of Combined Heat & Power (EGU 1.3)**
- **Consider Alternative Rate Structuring (EGU 1.1)**
- **Upgrade Building Energy Codes (RCI 1.4.a)**
- **Increase Building Energy Code Compliance (RCI 1.4.b)**
- **Establish an Energy Properties Section in Real Estate Property Listings (RCI 1.5)**
- **Conserve Embodied Energy in Existing Building Stock (RCI 1.8)**

2. Increase renewable and low-emitting energy resources in a long-term sustainable manner.

- Promote Renewable Energy through the Electric Portfolio Standard (RPS) (EGU 2.1)**
- Implement Regional Greenhouse Gas Initiative (EGU 2.2)**
- Increase Renewable and Low-CO₂e Thermal Energy Systems (RCI 3.1)**
- Address Barriers to Low- and Non-CO₂-Emitting Supply-Side Resources (EGU 2.4)**
- Enable Importation of Canadian Hydro and Wind Generation (EGU 2.6)**
- Allow Regulated Utilities to Build Renewable Generation (EGU 2.7)**
- Identify and Deploy the Next Generation of Electric Grid Technologies (EGU 2.8)**
- Promote Low- and Non-CO₂-Emitting Distributed Generation (EGU 2.9)**
- Encourage the Use of Biogenic Waste Sources for Energy Generation (AFW 2.4)**

3. Support regional and national actions to reduce greenhouse gas emissions.

- **Support Stricter Corporate Average Fuel Economy Standards (TLU 1.A.1)**
- **Support Fuel Economy Standards for Heavy-Duty Vehicles (TLU 1.A.2)**
- **Adopt a Low-Carbon Fuel Standard (TLU 1.C.1)**
- **Promote Advanced Technology Vehicles and Supporting Infrastructure (TLU 1.C.2)**

4. Reduce vehicle emissions through state actions.

- **Adopt California Low Emission Vehicle (CALEV) Standards (TLU 1.A.3)**
- **Create a Point-of-Sale Financial Incentive for Efficiency Vehicles (TLU 1.B.1)**
- **Install Retrofits to Address Black Carbon Emissions (TLU 1.C.3)**
- **Implement Commuter Trip Reduction Initiative (TLU 2.A.1)**
- **Address Highway Travel Speeds (TLU 1.D.1)**
- **Address Vehicle Idling (TLU 1.D.2)**
- **Improve Traffic Flow (TLU 1.D.3)**

5. Encourage land use patterns that enable fewer vehicle-miles traveled (VMT).

- Assess Greenhouse Gas Development Impact Fees (TLU 2.C.1.a)**
- Streamline Approvals for Low- Greenhouse Gas Development Projects (TLU 2.C.1.b)**
- Develop Model Zoning to Support Bus/Rail Transit (TLU 2.C.2)**
- Develop Model Zoning for Higher-Density, Mixed-Use Development (TLU 2.C.3)**
- Continue/Expand Funding, Education, and Technical Assistance to Municipalities (TLU 2.C.8)**

6. Reduce VMTs through an integrated multi-modal transportation system.

- Expand Local/Intra-Regional Transit (Bus) Service (TLU 2.B.1.a)**
- Improve Existing Local/Intra-Regional Transit (Bus) Service (TLU 2.B.1.b)**
- Expand and Improve Bicycle and Pedestrian Infrastructure (TLU 2.B.1.c)**
- Maintain and Expand Passenger Rail Service (TLU 2.B.2.a)**
- Maintain and Expand Freight Rail Service (TLU 2.B.2.b)**
- Implement a Stable Funding Stream to Support Public Transportation (TLU 2.B.2.c)**
- Improve Existing Inter-City Bus Service (TLU 2.B.2.h)**
- Expand Park-and-Ride Infrastructure (TLU 2.B.2.e)**

7. Protect and manage natural resources (e.g., land, water, wildlife) to maintain and expand carbon sequestration in forest and agricultural lands.

- Avoid Net Forest Land Conversion (AFW 1.2)**
- Optimize Availability of Biomass for Electricity and Heating within Sustainable Limits (AFW 2.2)**
- Promote Durable Wood Products (AFW 1.3)**
- Protect Agricultural Land (AFW 1.1.3)**
- Maximize Source Reduction, Reuse and Recycling (AFW 3.1)**

8. Lead by example in government operations.

- Establish an Energy Management Unit to Address State Energy Use and Greenhouse Gas Emissions (GLA 1.1)**
- Establish an Energy Consumption and Greenhouse Gas Emissions Baseline Inventory for State Government (GLA 1.2)**
- Establish a Self-Sustaining Fund for Energy Efficiency Projects in State Government (GLA 1.3)**
- Support the Establishment of Local Energy Commissions (GLA 1.4)**
- Include Climate Change Adaptation and Mitigation in Programs and Planning (GLA 1.5)**
- Promote Public School Siting and Building Aid to Reduce Energy Use (GLA 2.6)**

9. Develop plans to enable society to adapt to existing and potential climate change impacts.

- Develop a Climate Change Adaptation Plan for the State of New Hampshire (ADP 8)**
- Develop and Distribute Critical Information on Climate Change (ADP 1)**
- Promote Policies and Actions to Help Populations Most at Risk (ADP 2)**
- Charge and Empower Public Health Officials to Prepare for Climate Change (ADP 3)**
- Strengthen Protection of New Hampshire's Natural Systems (ADP 4)**
- Increase Resilience to Extreme Weather Events (ADP 5)**
- Strengthen the Adaptability of New Hampshire's Economy to Climate (ADP 6)**

10. Develop an integrated education, outreach and workforce training program.

- **Develop an Overarching Outreach and Education Plan (RCI 4.6)**
- **Include Energy Efficiency and Conservation in School Curriculum (RCI 4.1)**
- **Increase Energy Efficiency through Building Management Education Programs (RCI 4.2)**
- **Reduce Residential Energy Demand through Education and Outreach (RCI 4.3)**
- **Establish a Comprehensive Energy Efficiency and Renewable Energy Education Program (RCI 4.4)**
- **Create an Energy Efficiency and Sustainable Energy Systems Web Portal (RCI 4.5)**