



New England Governors/Eastern Canadian Premiers
Regional Climate Change Initiative

Stakeholder Webinar

March 17 & 24, 2017

Presenters

Chris Skoglund

Climate and Energy Program Manager
NH Department of Environmental Services

Sylvie Martin

Eastern Canadian Premiers Secretariat

Jason Rudokas

Climate Policy Analyst
Northeast States for Coordinated Air Use Management

Presentation Overview

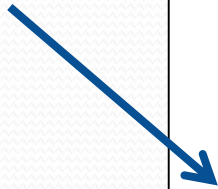
The purpose of the presentation is to enable New England stakeholders to provide input during the NEG/ECP's *Regional Climate Change Initiative*, which will result in the delivery of a *Regional Climate Change Action Plan* in August 2017.

Agenda

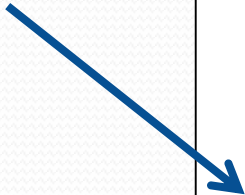
- Background
- Process
- Considerations
- Stakeholder Engagement

Providing Comment

You Are Here



Please review
the options
identified here



NEG/ECP Regional Climate Change Initiatives

Resources

Introductory Webinar

A webinar will be offered on **March 17, 2017 from 1-2 PM EST**.

The webinar will introduce the NEG/ECP and the *Regional Climate Change Initiative*, provide a high level overview of the process and options under consideration, and describe the opportunities to provide input that will be considered in the development process.

A link to a recording of the webinar will be provided shortly after the event.

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- Use the following link: <https://global.gotomeeting.com/join/163331581>
- Use your microphone and speakers (VoIP) - a headset is recommended. Or, call in using your telephone.
Dial +1 (669) 224-3212
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Reference Documents

Potential actions for the eleven jurisdictions of the NEG/ECP region to consider for inclusion in a 2017 *Regional Climate Action Plan*. The items included in the documents below were identified during 2016 by staff from the NEG/ECP region and will be vetted through a more inclusive, collaborative process in the first half of 2017.

Regional GHG Emissions Reduction Options Compendium: Identifies the regionally significant emissions reduction options for sectors that were identified in 2016.

Topic-Specific Materials

- **Cross-Cutting**: Options that affect multiple sectors
- **Government Leadership by Example**: Options that reduce GHG emissions from government facilities, fleets and operations
- **Energy Supply and Transmission**: Options that deal with centralized electricity generation, the transmission of electricity and natural gas, and delivered heating fuels
- **End-Use and Distributed Energy**: Options that increase energy efficiency and conservation and the deployment of distributed energy resources in buildings and industry (thermal and electric)
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Providing Comment

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Comments
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State Staff
Directly



NEG/ECP Regional Climate Change Initiative

Stakeholder Input

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Suggestion Box: <https://www.surveymonkey.com/r/BJF2QC3>

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Points of Contact for New England States

Questions and comments coming from outside of New England should be directed to: Chris Skoglund at christopher.skoglund@des.nh.gov or 603-271-7624.

If you are in New England, please submit comments and suggestions directly to state-agency staff by contacting the point of contact for your state. A list of state contacts is below.

To help organize the input that is received from stakeholders during this process, please include "NEG/ECP Climate Plan" in the subject line, and if relevant, please help us direct comments to the appropriate subcommittee(s) by indicating them in the subject line following the notation above (e.g., NEG/ECP Climate Plan – Transportation).

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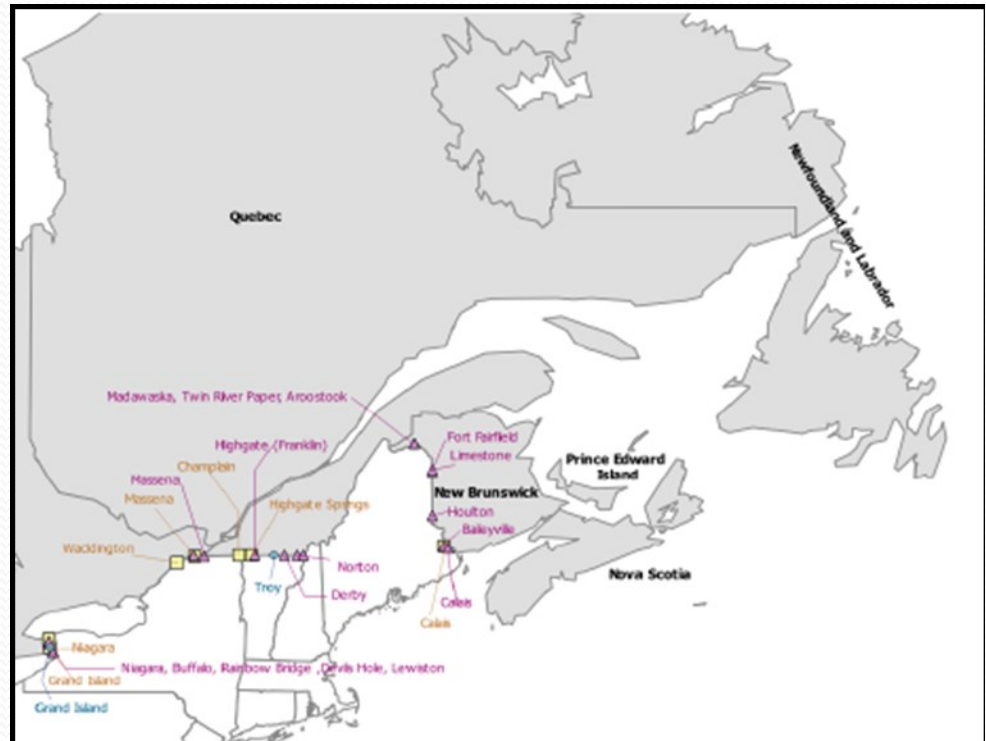
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New England Governors/ Eastern Canadian Premiers (NEG/ECP)

- Connecticut
- Maine
- Massachusetts
- New Hampshire
- Rhode Island
- Vermont

- New Brunswick
- Newfoundland Labrador
- Nova Scotia
- Prince Edward Island
- Quebec



Definition of Regional

For the NEG/ECP, **regional** is considered to mean:

“collaborative action(s) that, when undertaken in a coordinated manner, can achieve success sooner or at a higher rate of success/impact. Regional climate change actions are those that, when taken in a collaborative or coordinated way, are expected to contribute to changes in the region’s energy production and consumption that may result in a greater/faster aggregate reduction of GHG emissions within the 11 jurisdiction region.”

Guiding Principles

Create a regional climate plan that can evolve and develop over time in response to changing technology, economics, and sociological circumstances, and which will enable achievement of the NEG/ECP 2030 and 2050 targets.

- 1. Advance actions that: are being taken by individual jurisdictions that can be expanded region-wide; can only be accomplished through regional cooperation; or need to be advocated for at the federal/national level to enable the region to experience GHG reductions in certain areas.**
2. Adhere to a holistic approach, that is: inclusive of all sectors; incorporates initiatives that are already planned and/or known to be technological and politically feasible; and identifies additional aspirational initiatives.
3. Focus on innovative, emerging technologies that encourage transformation and can be deployed at scale as mitigating climate change by mid-century will require a transformation in how energy is sourced and used.

Guiding Principles

4. Incorporate options that provide market signals to spur innovation and technological advancements to bring down costs of clean energy technologies and increases their availability.
5. Recognize that climate mitigation efforts may provide significant economic benefits.
6. Recognize that modifications to governmental policies, strategies and institutions may be needed to adjust to changes in energy supply and use.
7. Encourage voluntary actions from the individual to the national levels.
8. Adhere to environmental justice principles to ensure that policies do not further disadvantage already disadvantaged populations.
9. **While committing to working regionally, each jurisdiction will follow its individual path to reducing its emissions in a manner consistent with its own intrinsic opportunities, challenges and priorities.**

2001 NEG/ECP

Regional Climate Change Action Plan

New England Governors
and the Eastern Canadian Premiers
"Building on Tradition"

Nouvelle-Angleterre et des Premiers ministres
de l'Est du Canada
"Une tradition à enrichir"

New England Governors/Eastern Canadian Premiers

Climate Change Action Plan 2001

August 2001

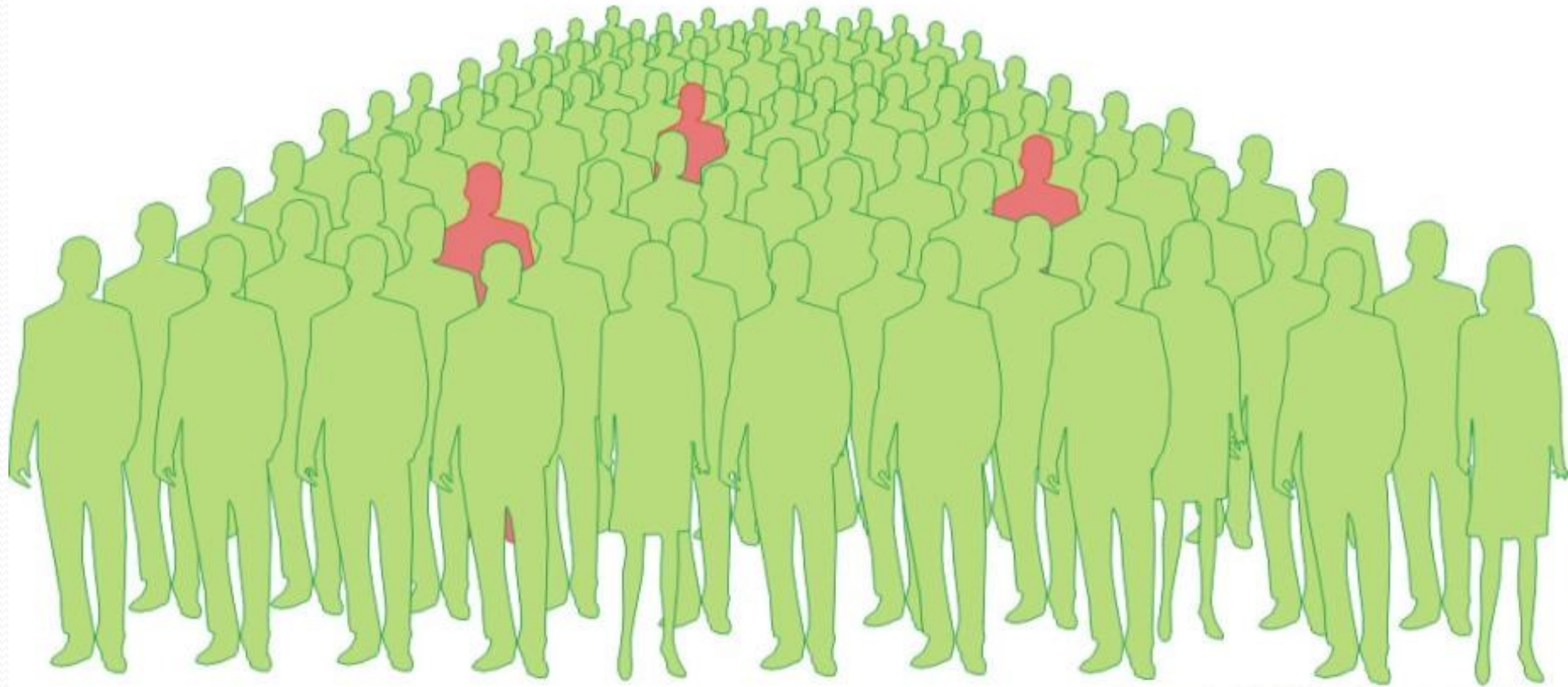
Prepared by

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

GHG emissions Goals

- Reduce GHG emissions to 1990 levels by 2010 (**Achieved**)
- Reduce by at least 10 percent below 1990 levels by 2020 (**On track to achieve**)
- Reduce to 75-85 percent below 2001 levels by 2050

Growing Scientific Certainty



Doran et al 2009, Anderegg et al 2010

Global Carbon Budget

WHAT IS THE CARBON BUDGET?

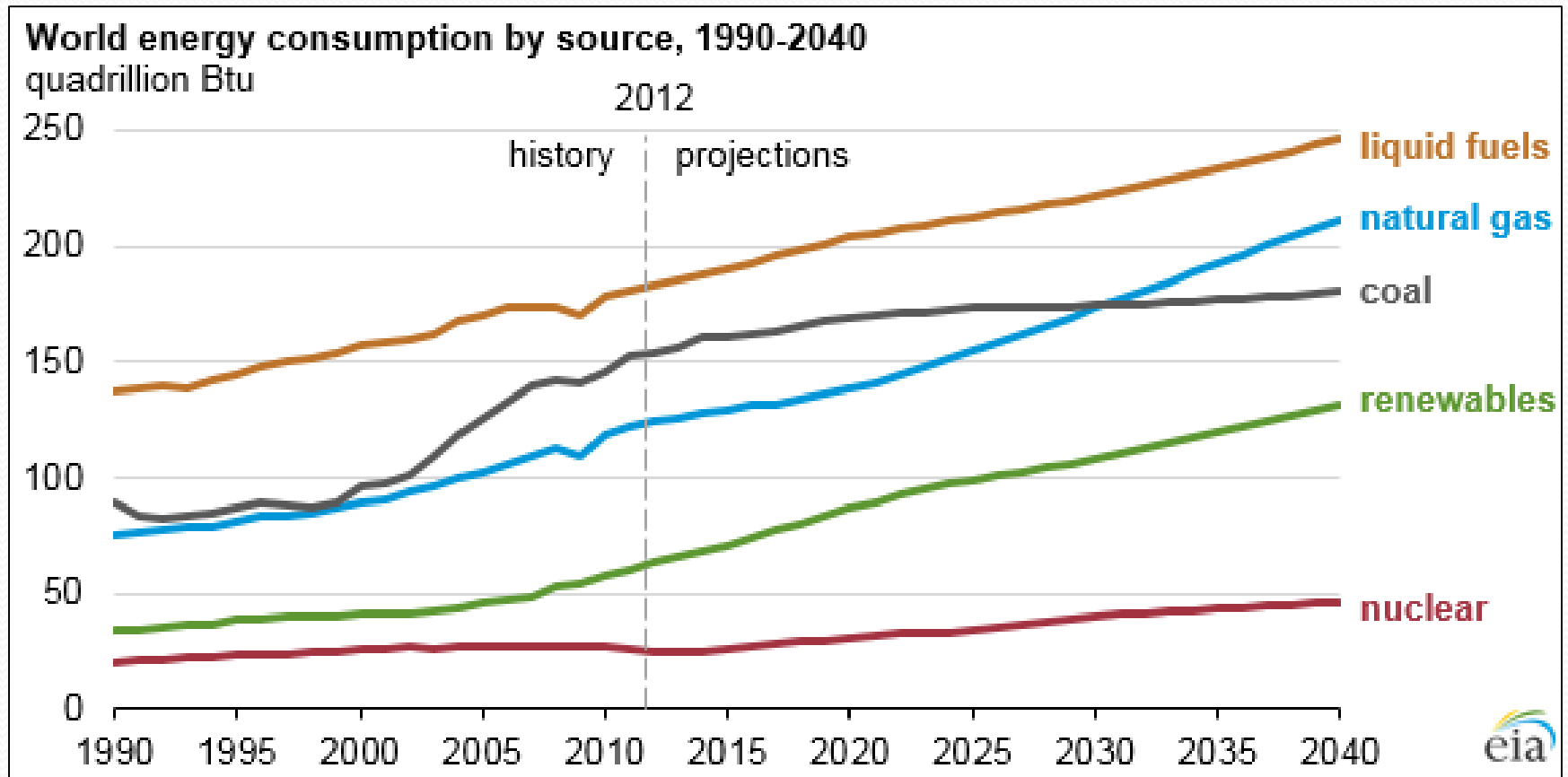
(1,000 PgC = 1 trillion tonnes of carbon)



Source: World Resources Institute

Source: World Resources Institute, <http://www.wri.org/ipcc-infographics>.

Transformation of World Energy Consumption is Needed

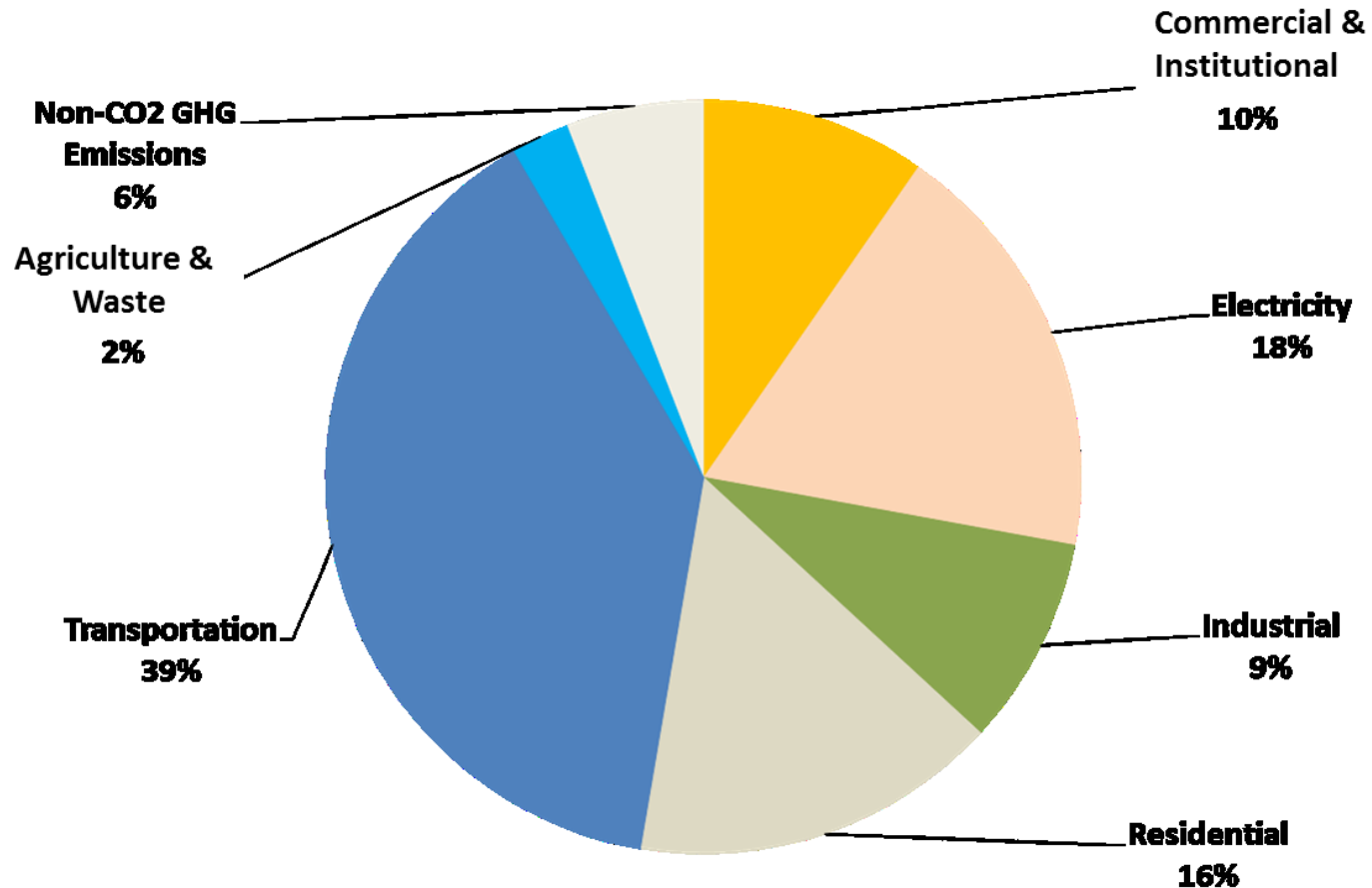


Source: U.S. Energy Information Administration, [International Energy Outlook 2016](https://www.eia.gov/todayinenergy/detail.php?id=26212);

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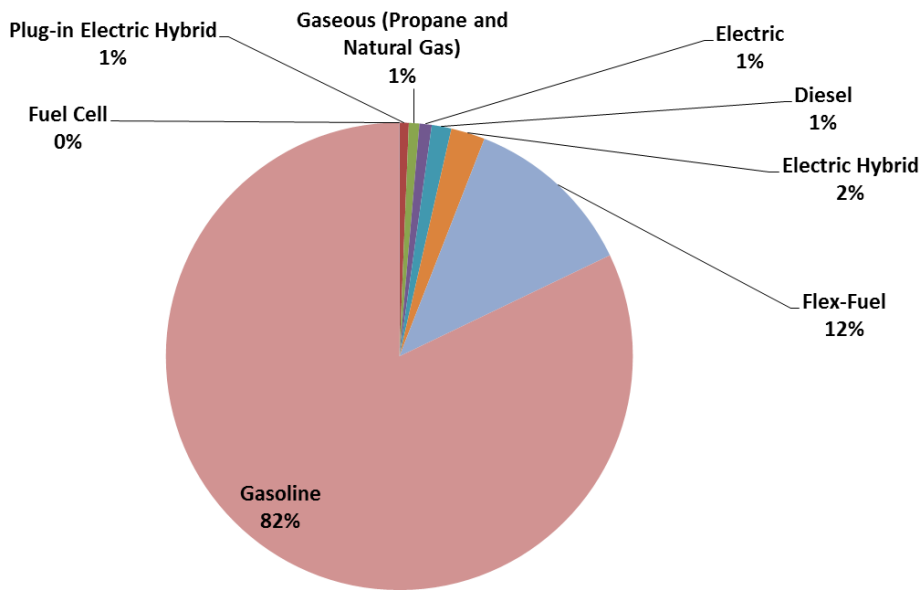
March 17, 2017

GHG Emissions in New England Projected to 2030 under BAU (Business as Usual)

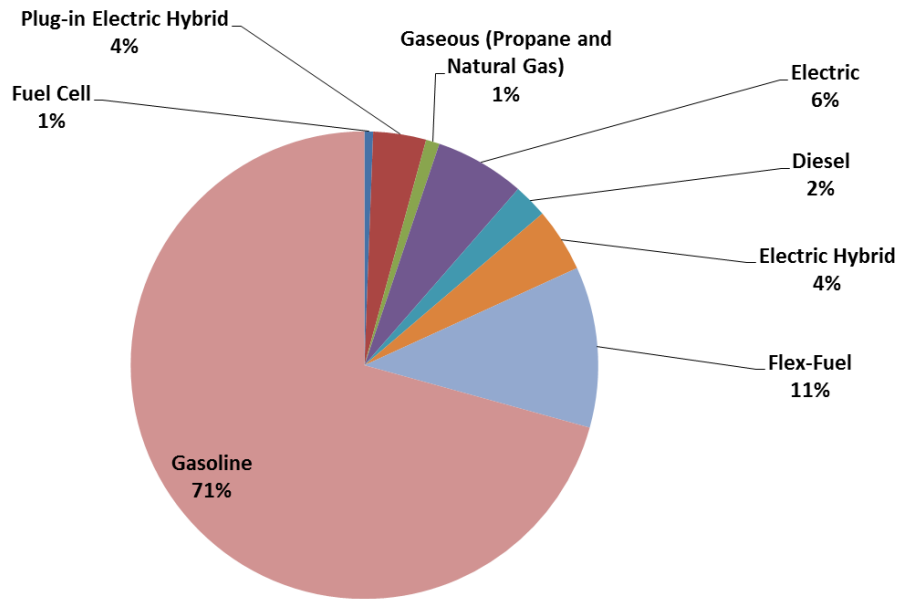


BAU Projections for Passenger Car Energy Use in New England

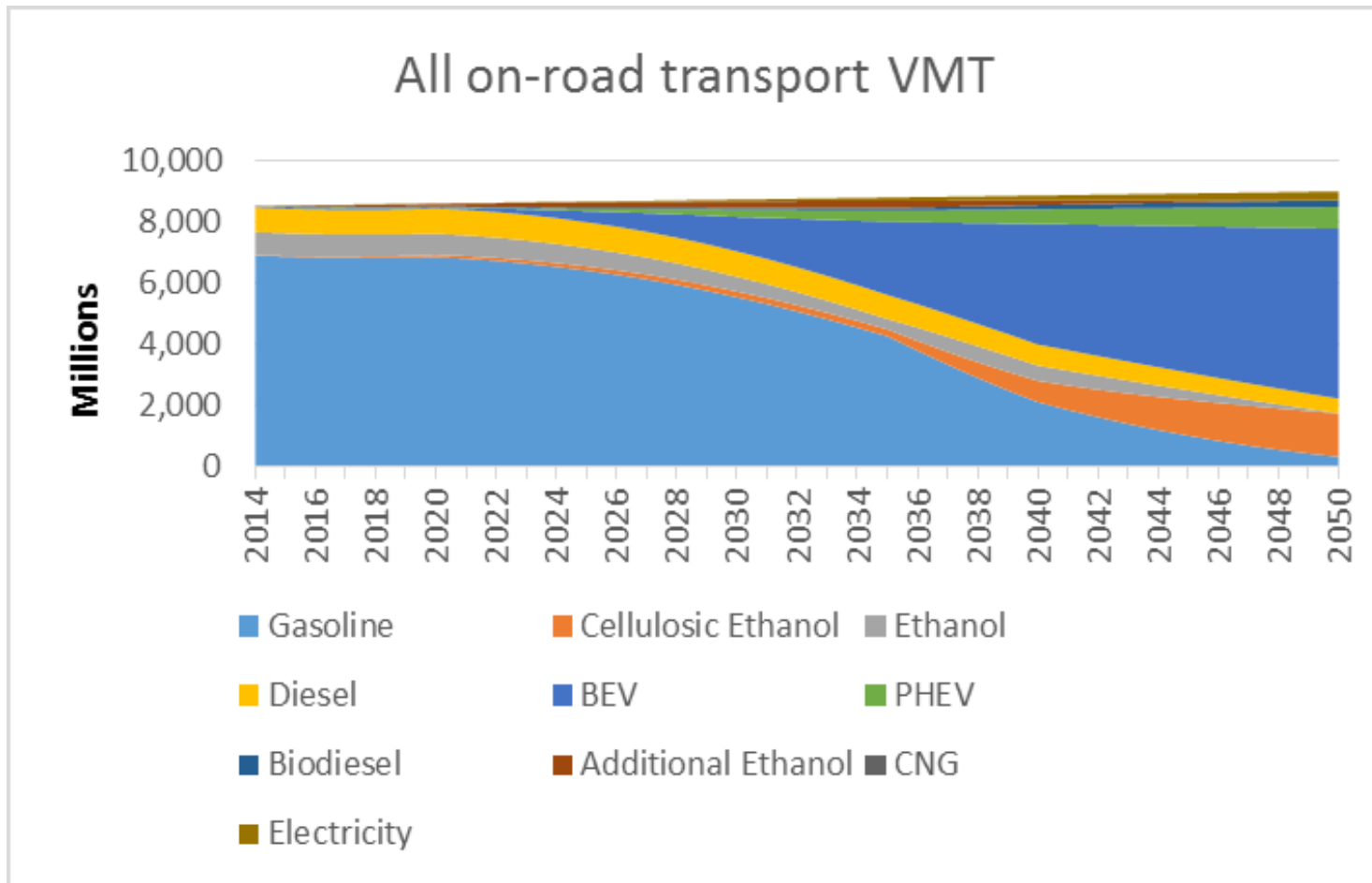
2015 Light-Duty Vehicle Sales



2040 Light-Duty Vehicle Sales

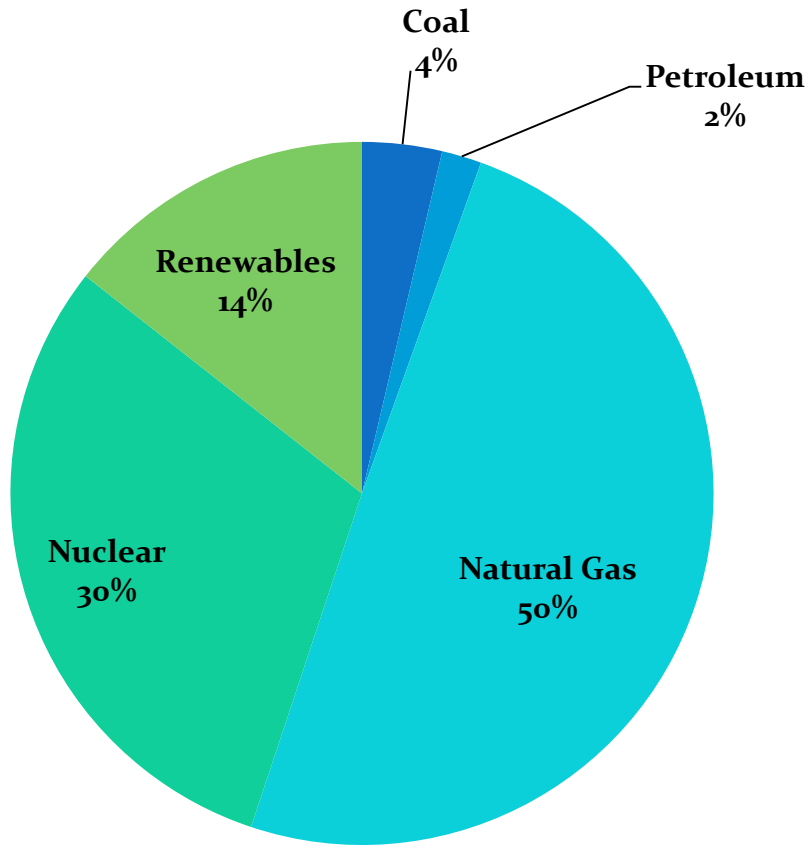


Implementation for 45% by 2035, 80% by 2050: Transportation

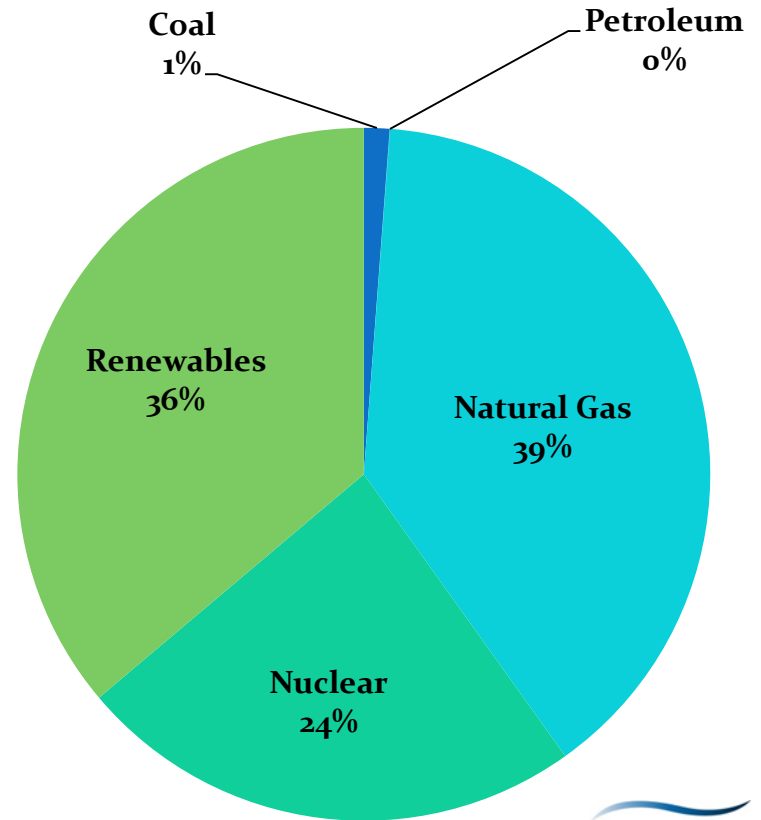


BAU Projections for Electricity Generation Energy Mix in New England

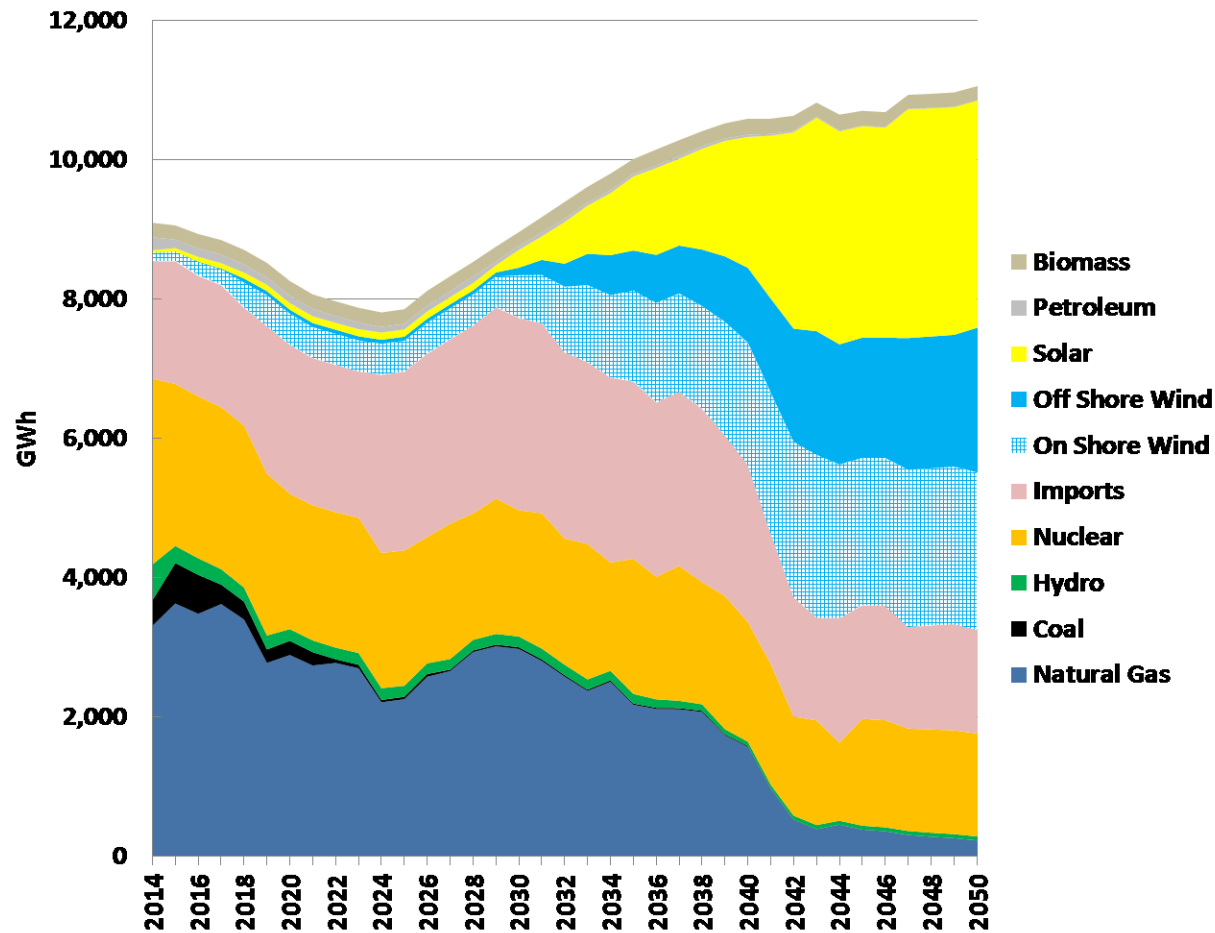
2015 Electricity Generation Shares



2040 Electricity Generation Shares



Implementation for 45% by 2035, 80% by 2050: Electricity Generation



Estimated GHG Impact of an EV in 2040



2017 Chevrolet Bolt EV

14840 mi/year (city: 6062 + highway: 8778)

More Renewable Scenario
(12.5% natural gas)

446.3 lb CO₂/year

3 time less CO₂

BAU Scenario
(39% natural gas)

1346.9 lb CO₂/year

Tools and sources for the calculation:

- Fuel pounds of CO₂ per million Btu: <https://www.eia.gov/tools/faqs/faq.cfm?id=74&t=11>
- Power plant heat rates: http://www.eia.gov/outlooks/aeo/assumptions/pdf/table_8.2.pdf
- EV data: <https://www.fueleconomy.gov/feg/Find.do?action=sbs&id=38187>
- and <http://www.afdc.energy.gov/calc/>

Individual State Plans - 2010-2016

Connecticut

- Executive Order No. 46 – Governor’s Council on Climate Change (2015)
- Comprehensive Energy Strategy (2016)

Maine

- Maine Climate Action Plan (2004)
- Maine Comprehensive Energy Plan (2015)
- Sixth Biennial Report on Progress toward Greenhouse Gas Reduction Goals (2016)

Massachusetts

- Executive Order 569 - Climate Change Strategy Executive Order (2016)
- Clean Energy and Climate Plan for 2020 (2015 Update) (2016)
- Reducing GHG Emissions under Section 3(d) of the Global Warming Solutions Act (2016)

Rhode Island

- Executive Order 15-17 – State Agencies to Lead by Example EE and CE (2015)
- State Energy Plan (2015)
- Greenhouse Gas Emissions Reduction Plan (2016)

New Hampshire

- Climate Action Plan (2009)
- State Energy Strategy (2015)
- Executive Order 2016-3 – Government Lead by Example in EE and RE (2016)

Vermont

- Executive Order 15-12 - Climate Cabinet and State Agency Climate Action Plan (2015)
- Comprehensive Energy Plan (2016)

Provinces' independent consultation(s) process

Québec

- Public Consultation in the Assemblée Nationale on Québec's 2030 GHG Target (2015)
- Transportation Electrification Action Plan 2015-2020 (2016)
- Québec's Energy Policy (2016)

New-Brunswick

- Transitioning to a Low-carbon Economy: New Brunswick's Climate Change Action Plan (2016)
- New Brunswick Energy Blueprint (2011)

Nova Scotia

- Toward a Greener Future: Nova Scotia Climate Change Action Plan (2009)
- Toward a Greener Future: Nova Scotia Energy Strategy (2009)
- Nova Scotia Marine Renewable Energy Strategy (2012)
- Nova Scotia Electricity Plan (2015)

Newfoundland and Labrador

- Charting Our Course: Climate Change Action Plan (2011)
- Moving Forward: Energy Efficiency Action Plan (2011)
- Greening Government Action Plan (2015)
- Market Transformation Framework (2015)

Prince Edward Island

- Climate Change Mitigation Strategy (To be released, 2016)
- Provincial Energy Strategy (2016)

Pan-Canadian Framework on Clean Growth and Climate Change Consultation Process

Online platform was launched by Environment and Climate Change Canada on April 21st 2016 to collect stakeholders' ideas on a climate plan
Some members of parliament organized public consultation in their ridings

Working group on Specific Mitigation Opportunities

Federal co-chair
Two provincial co-chairs
Included Provincial and Territorial participation

- Public engagement through a website
- Circulation of weekly summaries of public input to the working group
- Three roundtables with stakeholders and national Indigenous organizations

Report submitted to the Canadian Council of Ministers of the Environment

Working group on Carbon Pricing Mechanisms

Federal co-chair
Two provincial co-chairs
Included Provincial and Territorial participation

- Three roundtables with stakeholders and national Indigenous organizations
- Invited experts
- Submissions received through the federal online platform

Report submitted to Environment and Finance Ministers

Working group on Clean Technology, Innovation and Jobs

Federal co-chair
Two provincial co-chairs
Included Provincial and Territorial participation

- Submissions received through the federal online platform
- One roundtable with national stakeholders
- Regional roundtables
- Communication with national Indigenous organizations

Report submitted to Ministers of Innovation and Economic Development

Working group on Adaptation and Climate Resilience

Federal co-chair
One province co-chair
Included Provincial and Territorial participation

- Weekly teleconference calls with national Indigenous organizations
- Multi-day stakeholder engagement event

Report submitted to the Canadian Council of Ministers of the Environment

Summary report and recommendations made by Intergovernmental Affairs to First Ministers

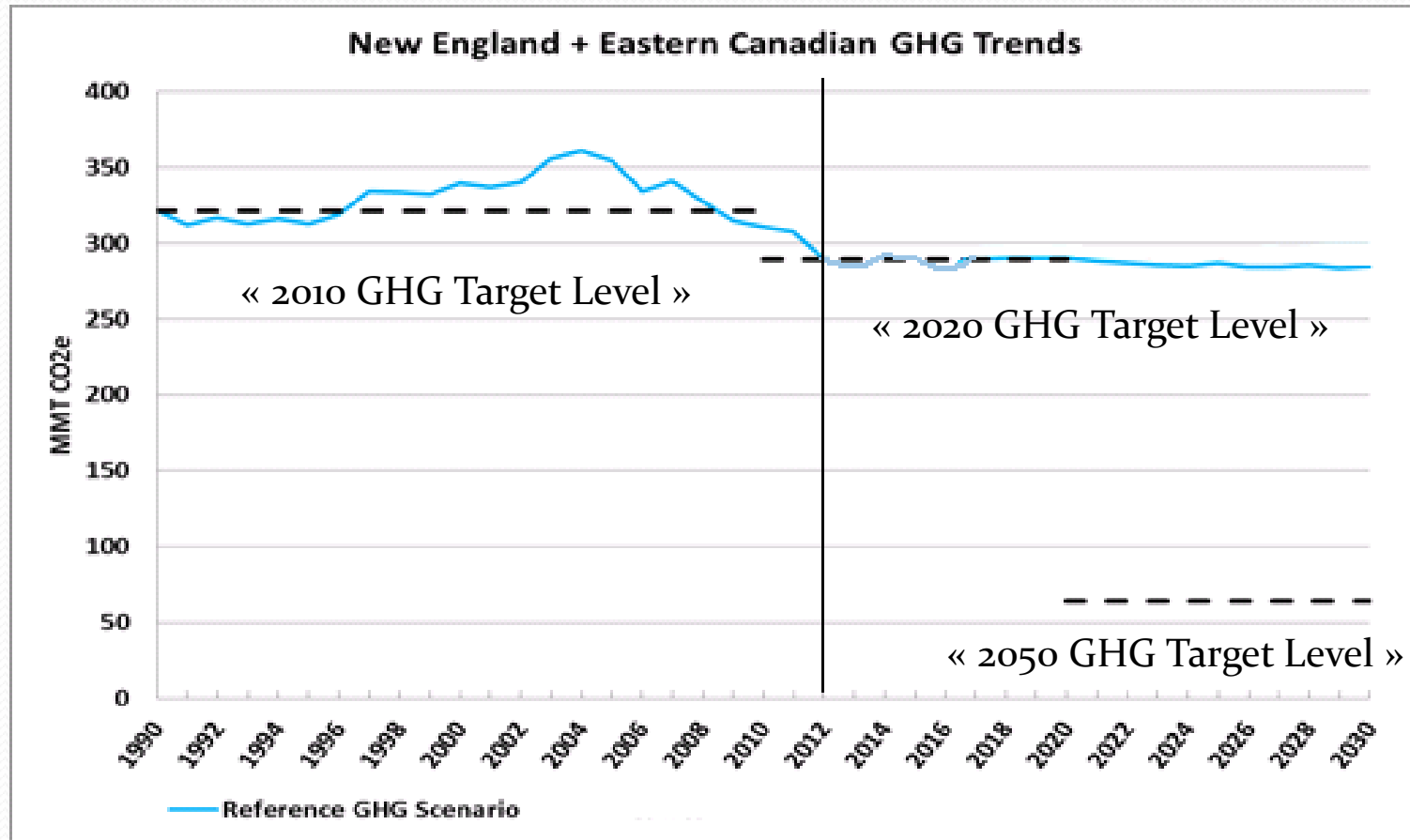
First Ministers signed the **Pan-Canadian Framework on Clean Growth and Climate Change**
December 2016

Pan-Canadian Framework on Clean Growth and Climate Change

The 4 reports and the Pan-Canadian Framework can be found online:

<https://www.canada.ca/en/services/environment/weather/climate-change/pan-canadian-framework.html>

NEG/ECP GHG Emissions Historic & Projected

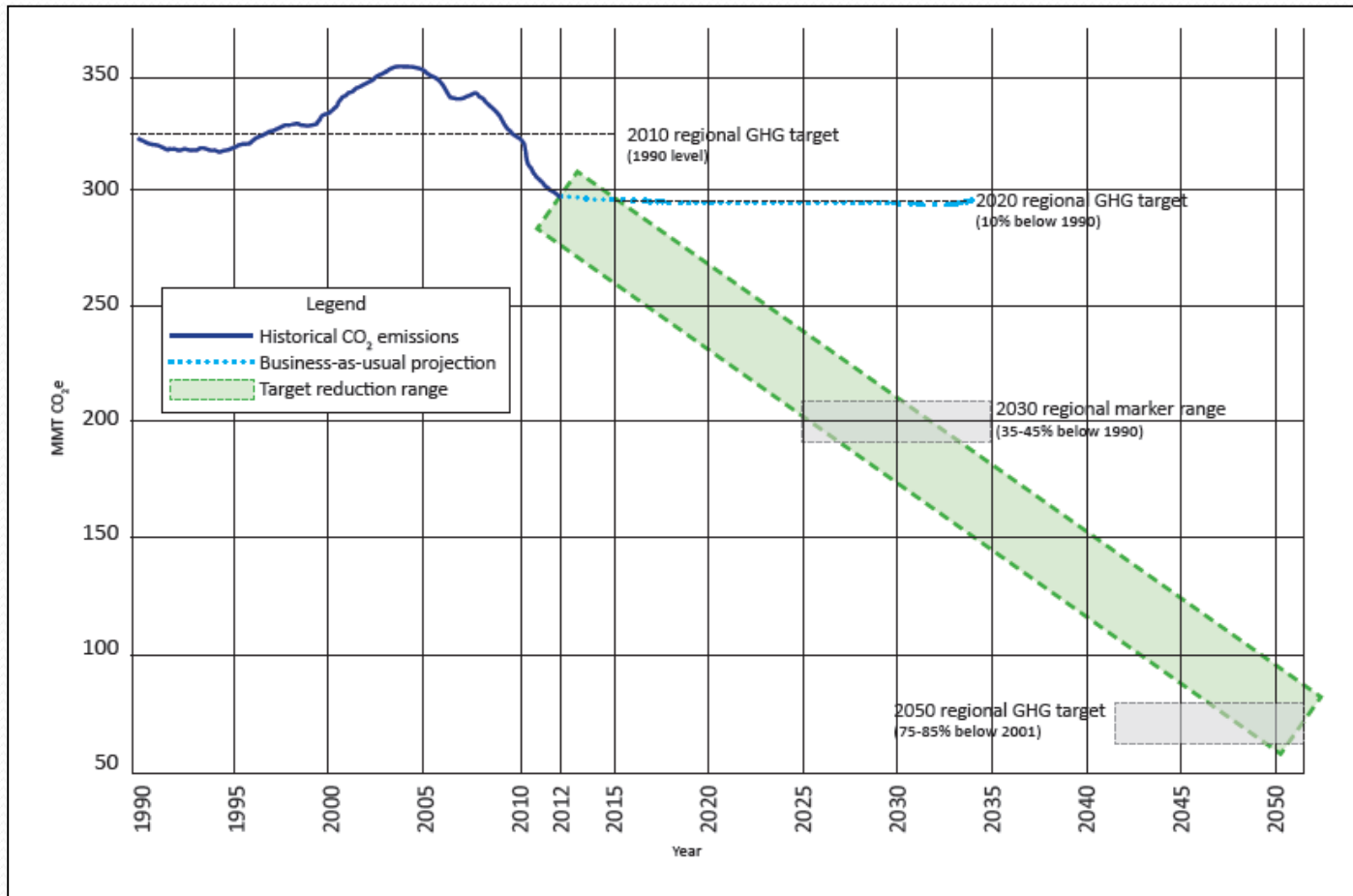


Source: Quebec Ministry of Sustainable Development, Environment and Fight Against Climate Change, 2015

Resolution 39-1

2030 Performance Target

Reduce GHG emissions by 35-45 percent below 1990 levels by 2030.



Resolution 39-1

Adopted August 2015

1. Included the affirmation “**WHEREAS**, each [jurisdiction] is only responsible for developing and implementing policies that are appropriate to its individual needs...”
2. Adopted a 2030 reduction marker range of at least 35 - 45 percent below 1990 levels.
 - Midway between 2020 target (10 percent below 1990) and 2050 target (75-85 percent below 2001).

Resolution 39-1

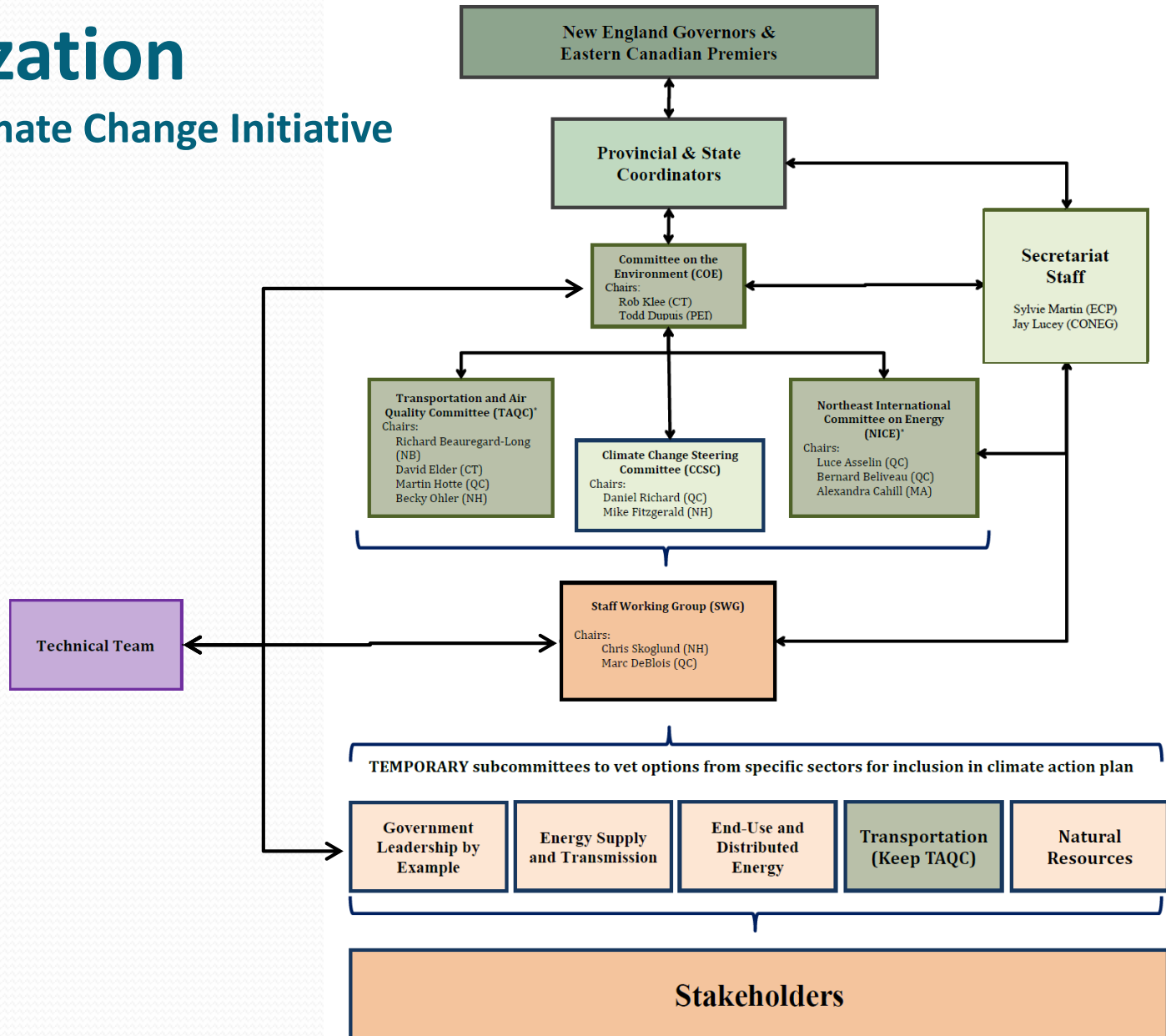
Adopted August 2015

3. Tasked the COE with identifying “strategies, policies and measures,” through which the region can achieve the 2030 reduction marker and 2050 target
 - Include environmental, transportation and energy suites of strategies, policies and measures.
 - Work in conjunction with the CCSC, TAQC and the NICE.

COE advanced an overview of possible joint actions to the governors and premiers at the 40th NEG/ECP Conference in Massachusetts and received support to continue working towards the finalization of a Regional Climate Change Action Plan.

Organization

Regional Climate Change Initiative



Deliverables & Timetable

August 2016 – August 2017

Goal: Develop complete Regional Climate Change Action Plan.

- Convene topic-based subcommittees composed of staff from among 11 jurisdictions.
- Select options region can pursue to achieve 2030 and 2050 goals.
- Develop potential descriptions/implementation plans for options to be approved by COE.
- Develop a draft final *Climate Change Mitigation Plan* to submit to the NEG/ECP for consideration and adoption.

Six Categories of Options

- 1. Cross-Cutting:** Options that affected all sectors equally or that could not be easily categorized
- 2. Government Leadership by Example:** Options that reduce GHG emissions from government facilities, fleets and operations
- 3. Energy Supply & Transmission:** Options that deal with centralized electricity generation, the transmission of electricity and natural gas, and delivered heating fuels

Six Categories of Options

- 4. End Use and Distributed Energy:** Options that focus on increasing energy efficiency and conservation, and distributed energy resources in buildings and industry (thermal and electric)
- 5. Transportation:** Options that address transportation choices and accessibility, vehicle technology and fuels - propose keeping this as the standing TAQC
- 6. Natural Resources:** Options that enhance the amount of carbon being captured and stored in agricultural and forested lands and other natural systems, and that encourage sustainable materials management

Policy Tools to Consider

1. Inventorying & Modeling
2. Research & Development
3. Education & Outreach
4. Financing & Incentives
5. Regulatory (*e.g.*, market-based programs)
6. Other (*e.g.*, partnership with private sector)

Subcommittee Steps

1. Review 2016 Options
2. Revise and amend list
3. Prioritize for near and mid-term
4. Develop descriptions & implementation for highest priority

Planning Document - For Discussion Purposes Only

New England Governors and Eastern Canadian Premiers (NEG/ECP)
Regional Climate Change Action Plan Development
In response to NEG/ECP [Resolution 39-1](#) Concerning Climate Change

Energy Supply and Transmission Potential Options for Consideration

Overview

This document contains a set of potential actions for the eleven jurisdictions of the NEG/ECP region to consider including in a proposed **Energy Supply and Transmission Section** of the 2017 *Regional Climate Action Plan*.

The items included were identified during 2016 by staff from the NEG/ECP region¹ and are intended to be vetted through a more an inclusive, collaborative process in the first half of 2017. This process will take advantage of recent and concurrent climate and energy planning within Canada and the US as well as by individual states and provinces.

As part of this process subcommittees will review sections of this document identify those environmental, transportation and energy strategies, policies and measures² whose implementation at the regional level will make possible the economy-wide GHG reductions needed for the NEG/ECP region to achieve the 2030 GHG emissions reduction marker range of 35–45 percent below 1990 levels as well as the 2050 target.

The discussions among the sector specific subcommittees will be monitored in order to assure coordination among interrelated recommendations occurring cross-sector.

Background

During 2016, the NEG/ECP committees formed a temporary “Staff Working Group” (SWG) to address the collaborative, cross-sector directives of *Resolution 39-1*. The SWG worked during the first half of 2016 to consider current commitments and initiatives within the region, existing external plans and agreements, as well as additional regional opportunities to accomplish this directive. The SWG, with the review and approval of the standing NEG/ECP committees, identified six broad categories to advance regional GHG emissions reduction actions.

1. **Cross-Cutting:** Options that affect multiple sectors
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3. **Energy Supply and Transmission:** Options that deal with centralized electricity generation, the transmission of electricity and natural gas, and delivered heating fuels

¹ Each item was included: within the 2016 Interim Work Plan or the 2016 Strategic Framework, which were both shared with the Governors and Premiers; or an “Expanded Framework,” which contained a laundry list of more specific items that were tabled until this phase.

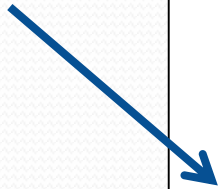
² Such efforts would complement efforts at the state, provincial and federal levels.

Planning Document - For Discussion Purposes Only
Revised February 16, 2017

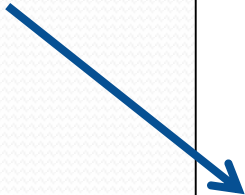
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Potential Questions for Stakeholders

1. What are the highest priority sectors to focus climate efforts?
2. What additional regional opportunities and challenges should be considered?
3. Among those options identified, what are the most important?
4. Are there any actions the individual jurisdictions could take to complement this regional work?

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**Energy Supply and Transmission
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Background

During 2016, the NEG/ECP committees formed a temporary “Staff Working Group” (SWG) to address the collaborative, cross-sector directives of *Resolution 39-1*. The SWG worked during the first half of 2016 to consider current commitments and initiatives within the region, existing external plans and agreements, as well as additional regional opportunities to accomplish this directive. The SWG, with the review and approval of the standing NEG/ECP committees, identified six broad categories to advance regional GHG emissions reduction actions.

1. **Cross-Cutting:** Options that affect multiple sectors
2. **Government Leadership by Example:** Options that reduce GHG emissions from government facilities, fleets and operations
3. **Energy Supply and Transmission:** Options that deal with centralized electricity generation, the transmission of electricity and natural gas, and delivered heating fuels

¹ Each item was included: within the 2016 Interim Work Plan or the 2016 Strategic Framework, which were both shared with the Governors and Premiers; or an “Expanded Framework,” which contained a laundry list of more specific items that were tabled until this phase.
² Such efforts would complement efforts at the state, provincial and federal levels.

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Questions / Comments