

Canada/U.S. Cross Border Links: Environmental and Energy Opportunities

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ENE (Environment Northeast)

Saving the Planet and Creating Jobs
St. Thomas University
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ENE – About Us

- **Environmental Policy, Research, and Advocacy**
 - **Non-profit NGO Independently Funded by Foundations and Individuals**
 - **Headquartered in Rockport, ME with additional offices in Boston, MA / Providence, RI / Hartford, CT / Ottawa, ON, Canada**
 - **Diverse Staff Expertise in Economics, Energy and Emissions Data, Law, Environmental Science and Public Policy**
 - **ENE mission statement is to work in a bioregion of eastern US and Canada**

- **Program Areas**
 - **Climate Solutions & Sustainable Energy**
 - **Transportation**
 - **Forest and Land Use**



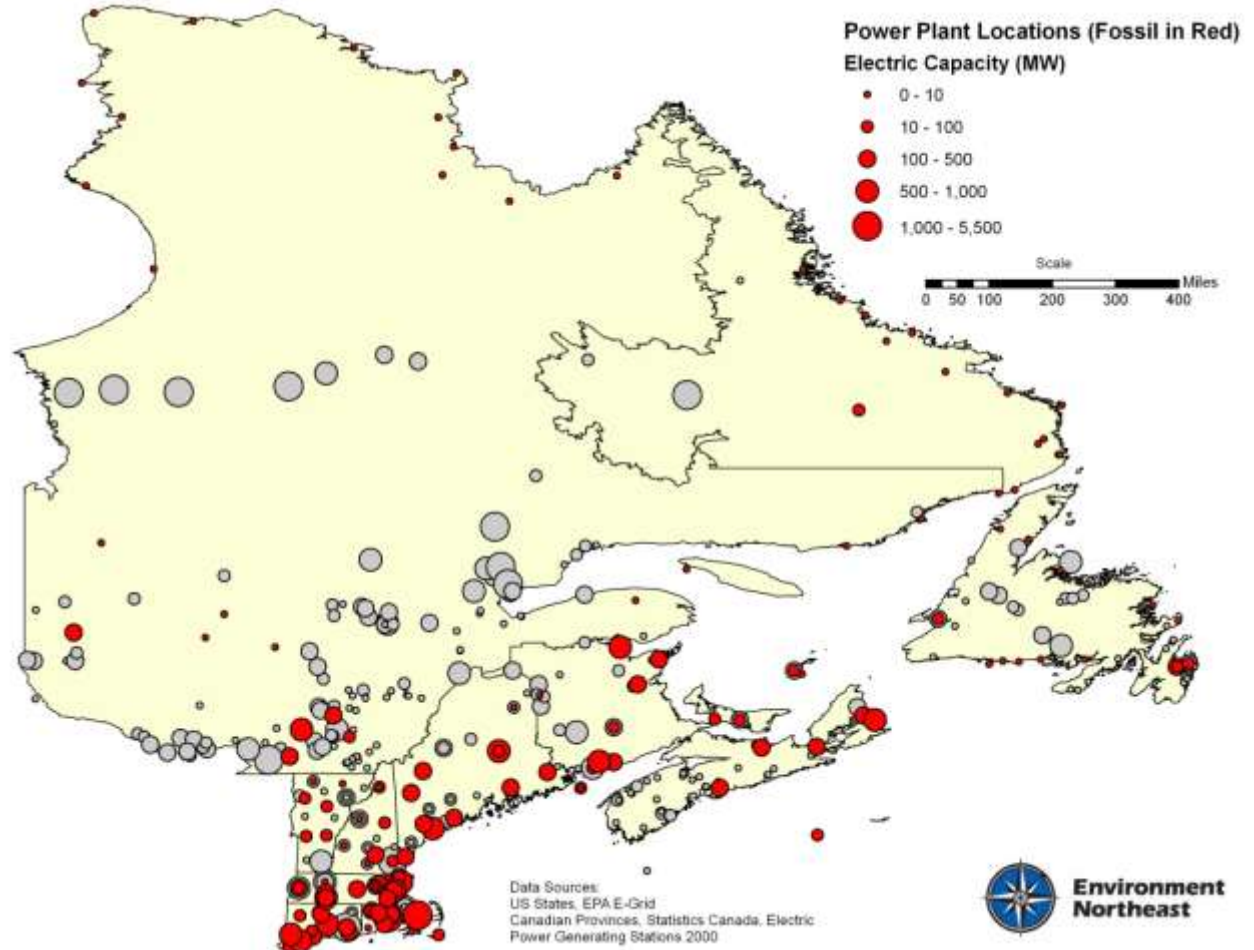
Energy Efficiency and Climate: A Shared Perspective

- **ENE's cross border work includes:**
 - *Climate Change Roadmap for New England and Eastern Canada*
 - *Energy Efficiency: Engine of Economic Growth*
 - Presented at NEG-ECP
 - Now conducted assessment for the provinces
- **ENE Canada Office worked with Energy Policy experts in Atlantic Provinces on Reformation of Provincial policies to advance EE as a least cost resource; testified before Parliament and provided expert policy input on federal and provincial climate and energy policies**
- **ENE's Canada Office works closely with Canadian NGOs at the provincial and federal Levels and in coordinating on NEG-ECP and other cross-border efforts**

NE-EC Regional GHG Emissions

NE-EC Region

- Pop: 24 Million
- GDP: ~\$1 Trillion
- Emissions:
 - 345 MMTCO₂e
 - Among top 25 if a country
 - About the same as California



NEG-ECP 2001 Climate Change Action Plan

Regional Plan to reduce GHGs

to 1990 levels by 2010

to 10% < 1990 levels by 2020

75-85% < current levels over long term

2009 Resolution to Develop Climate Change Initiative

Regional Greenhouse Gas Initiative (RGGI)

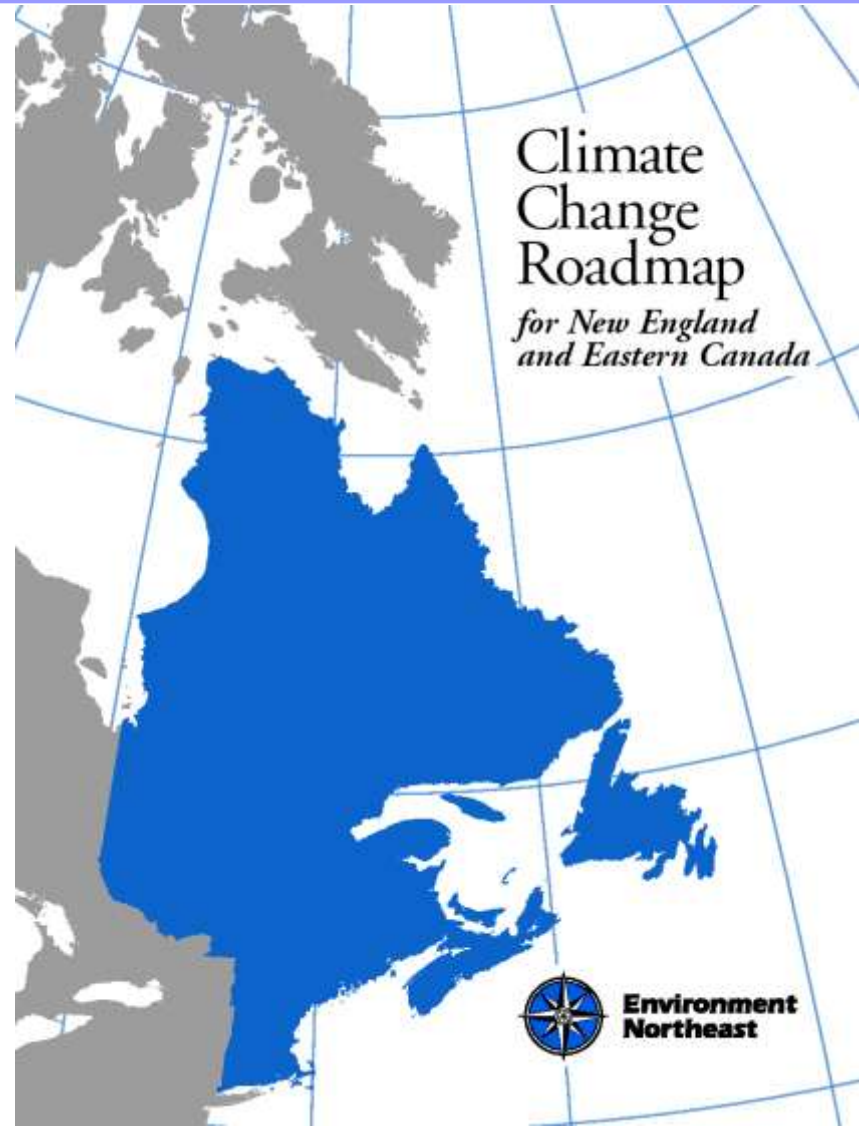
- **First mandatory carbon cap and trade program in the US (CT, DE, MA, ME, MD, NH, NJ, NY, RI, VT)**
- **Expansion to include other states/provinces??**
- **Electric power units over 25 MWs; Reduce emissions 10% below 2009 levels by 2019; 3.3% offset usage for compliance**
- **87% of allowances auctioned**

	Revenue	Energy Efficiency Share	Projected Energy Efficiency Funding
Auctions 1-5	\$432,834,987	64.8%	\$280,369,368
Auction 6	\$61,587,121	62.6%	\$38,559,692
Total	\$494,422,108	64.5%	\$318,929,060

The *Climate Change Roadmap for New England and Eastern Canada (Dec. 2006)*

Contents:

- GHG Emission Inventory, BAU, Targets
- Future scenarios
 - Projected GHG Emissions given various policy choices
- Best practices and policy analysis
- 10 Priority Solutions
 - Sector-by-sector policy solutions
 - 28 detailed *“Implementation Recommendations”* for state policymakers
- Lays out path to achieving 75% reduction trajectory
- Available at: www.env-ne.org



Ten Priority Solutions for State Policymakers

Energy

1. Energy Efficiency Resources
2. Buildings
3. Appliances
4. Large Stationary Emitters
5. Clean Energy Supplies

Transportation

6. Clean Fuels
7. Light Vehicles
8. Heavy Vehicles

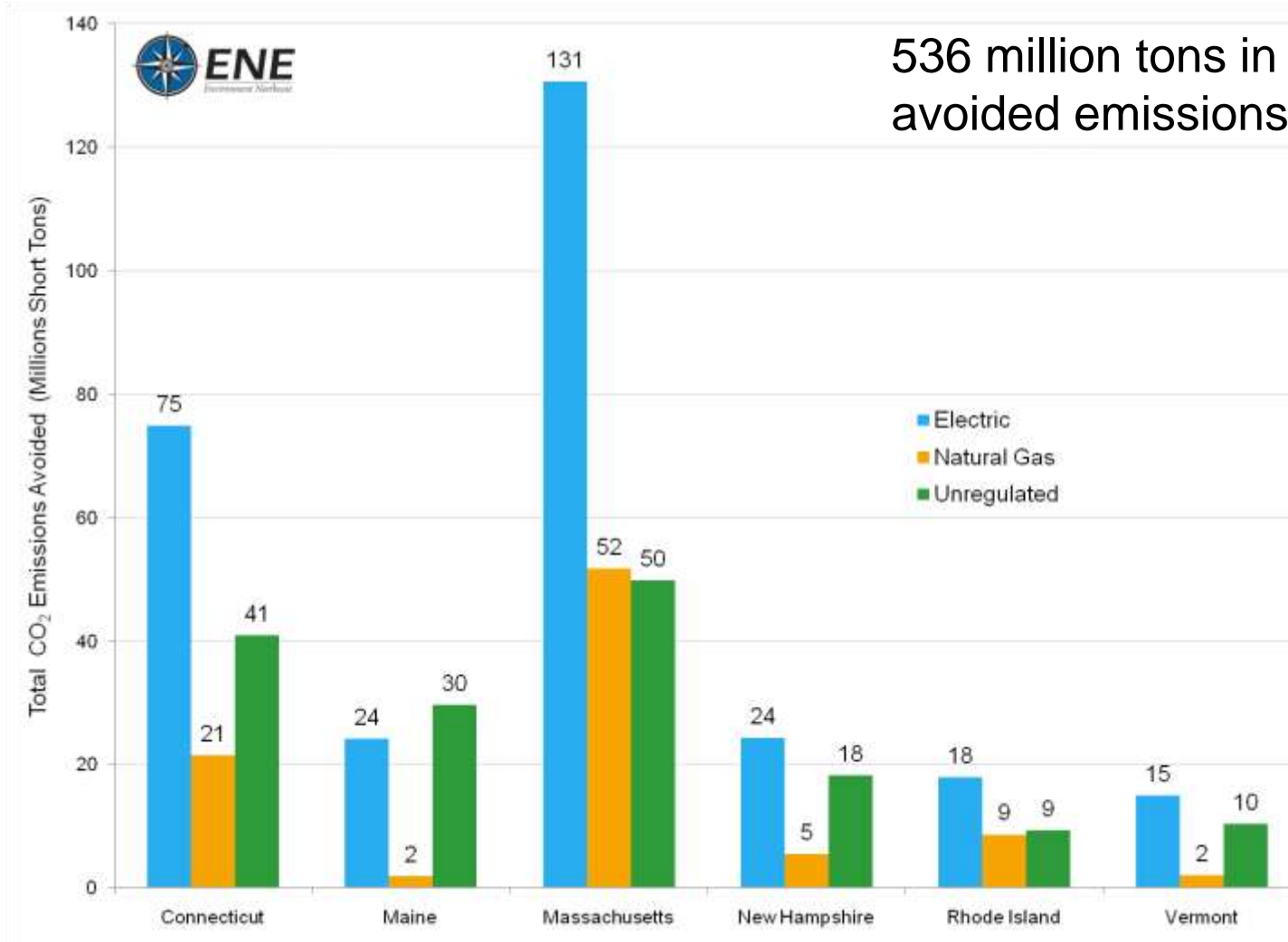
Sequestration

9. Carbon Sinks on the Land
10. Geologic CO2 Storage

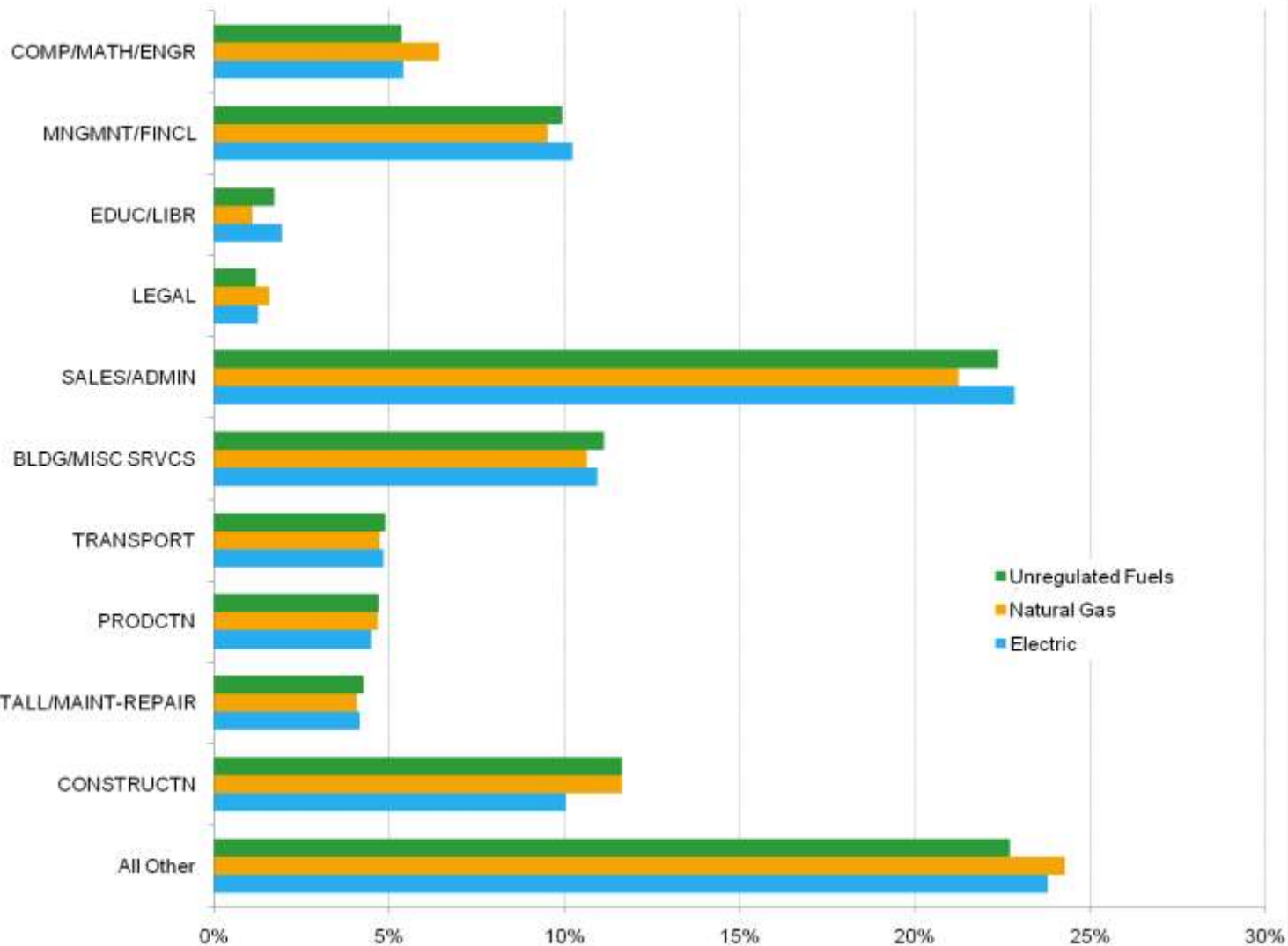
Energy Efficiency: Engine of Economic Growth

- **ENE Study of Macroeconomic Impacts of EE**
 - Using the Regional Economic Models, Inc (REMI) – multi-state *Policy Insight* forecasting tool used for RGGI
 - Conservatively modeled all cost-effective EE investment
 - Six New England States and Regional Impacts
 - Canada Engine Report underway (five provinces)
- **Modeled Impacts on:**
 - Energy costs, Emissions, Gross State Product (GSP), Employment
 - Available at <http://www.env-ne.org>

ENE Engine Results: Emissions Reductions

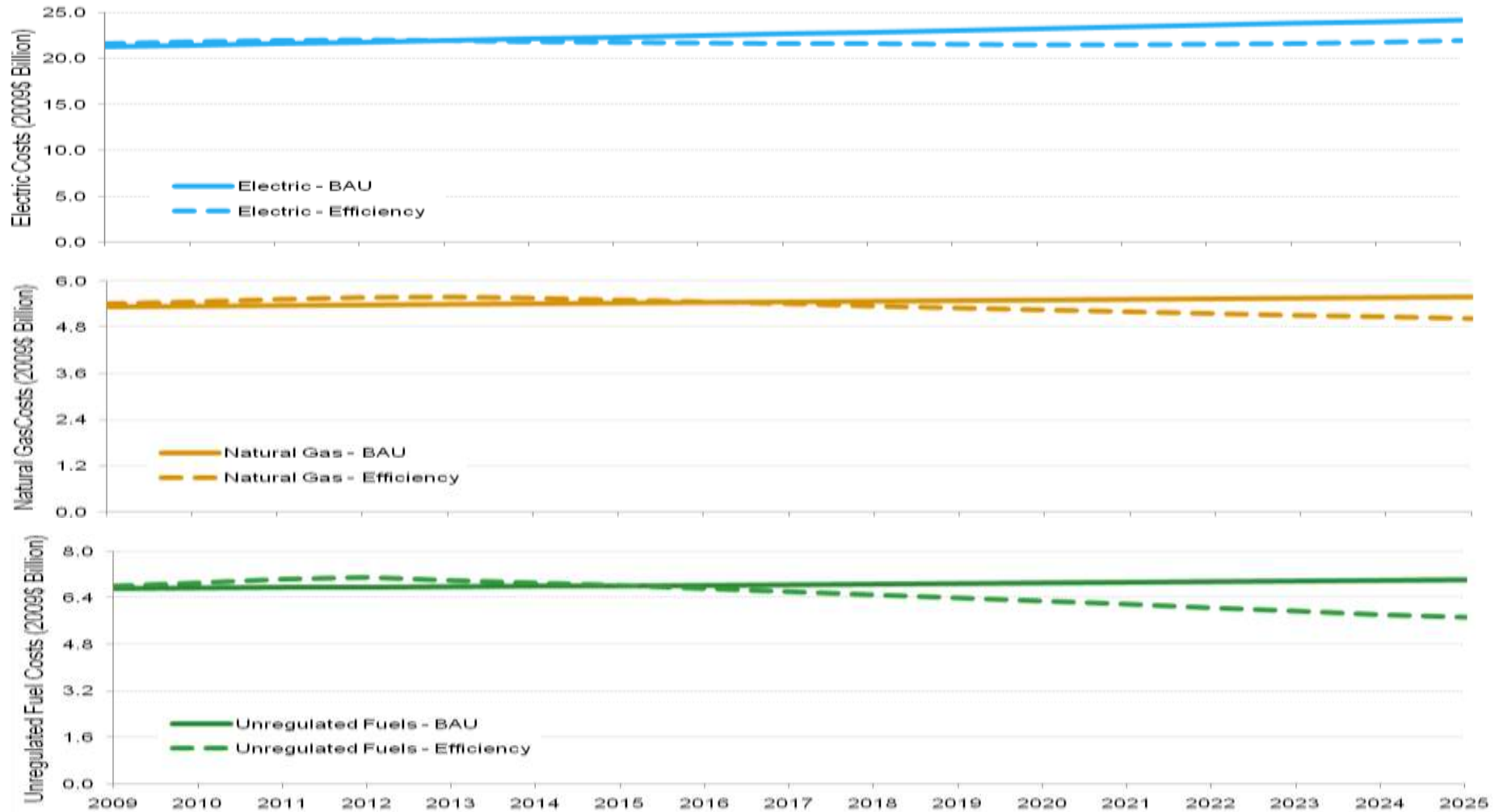


Economy-Wide Job Impacts



26,000 more jobs in 2016

Results - Energy Cost Savings



Summary of New England Economic Impacts

	Electric	Natural Gas	Unregulated Fuels
Total Efficiency Program Costs (\$Billions)	16.8	4.1	6.3
Increase in GSP (\$Billions)	99.4	30.6	53.1
Maximum annual GSP Increase (\$Billions)	5.6	1.8	2.9
Percent of GSP Increase Resulting from Efficiency Spending	12%	11%	9%
Percent of GSP Increase Resulting from Energy Savings	88%	89%	91%
Dollars of GSP Increase per \$1 of Program Spending	5.9	7.4	8.5
Increase in Employment (Job Years)	767,011	207,924	417,061
Maximum annual Employment Increase (Jobs)	43,193	12,907	24,036
Percent of Employment Increase from Efficiency Spending	16%	15%	12%
Percent of Employment Increase from Energy Savings	84%	85%	88%
Job-Years per \$Million of Program Spending	46	50	66

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