

Acadia Center

Advancing the Clean Energy Future

Building a Stronger Maine

Five Reforms to Modernize Transportation and Energy & Unlock Economic, Consumer, and Public Health Benefits

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Message to Maine's Next Governor:

The next governor can revitalize Maine by modernizing transportation and energy through five reforms that will unlock significant new economic, consumer, and public health benefits for our state.



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Maine's Transportation Landscape

Maine's transportation system is outdated, underfunded, inefficient – and responsible for more than half of our GHG emissions.

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A Stronger Transportation System

Safe, clean, modern, transportation would generate economic activity, expand consumer access, and reduce vehicle emissions.

Maine can invest in equitable, transformative solutions.

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Maine EV Deployment Lags the Region

Policy	Best Practice Status	Maine Current Status	2030 Recommendations
EV Sales Annual Growth	Vermont – 42% (average, 2013–2016) Massachusetts - 41% (average, 2013–2016)	33% (average, 2013-2016)	40% annually through 2030
EV Chargers			
DC Fast Chargers per 1000 Miles of Highway	Massachusetts – 17	2	
L2 Chargers per Billion VMT	Vermont – 18	7	

Acadia Center, Maine: Pathway to 2030

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Current Strategies Won't Meet Maine's Goals

Reducing transportation emissions is an **ECONOMIC**, **HEALTH**, and **CLIMATE** imperative.



Improving critical, multimodal transportation **INFRASTRUCTURE**, **ACCESS**, and **EQUITY** is critical.

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Major Benefits of a New Approach



8,700 new jobs



$1 billion
in new wages

$3.8 billion
in new business sales



$2.3 billion
in reduced travel & improved health

$63 million
in savings from avoided costs of GHG emissions

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1: Modernize Transportation Infrastructure

Put a price on transportation emissions, accelerate EV adoption, and diversify transit & mobility options.

Maine's Electric Generation Landscape

Maine's electric generation is expensive, polluting, and largely dependent on forces outside our control.

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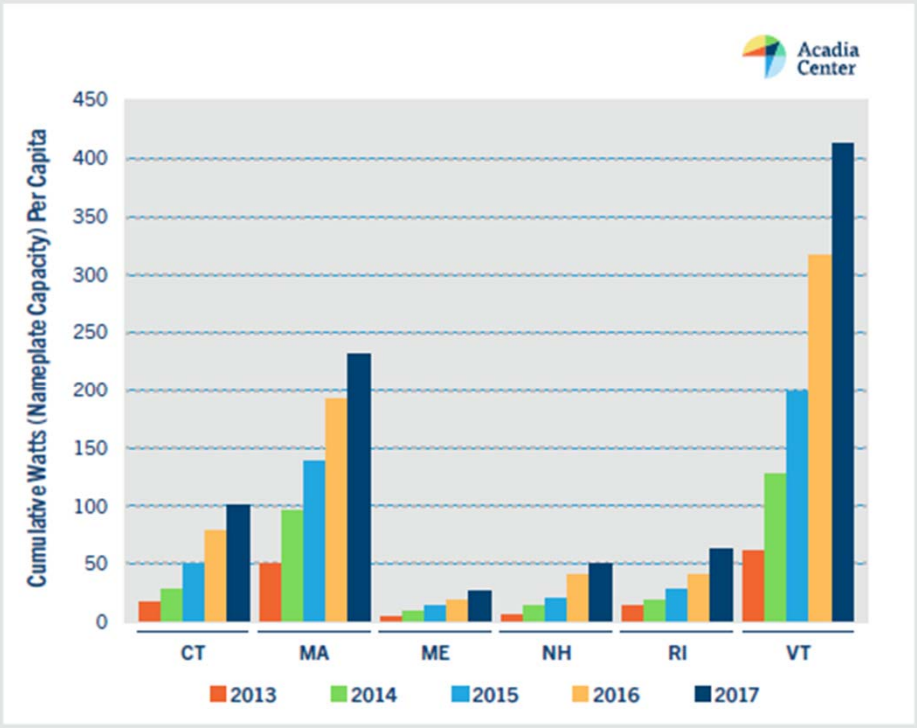
A Stronger Electric Generation System

The Northeast has vast, renewable, local clean energy resources that are cheaper, cleaner, and more resilient than fossil fuels.

Maine can deploy them at scale.

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Maine Solar Deployment Lags the Region



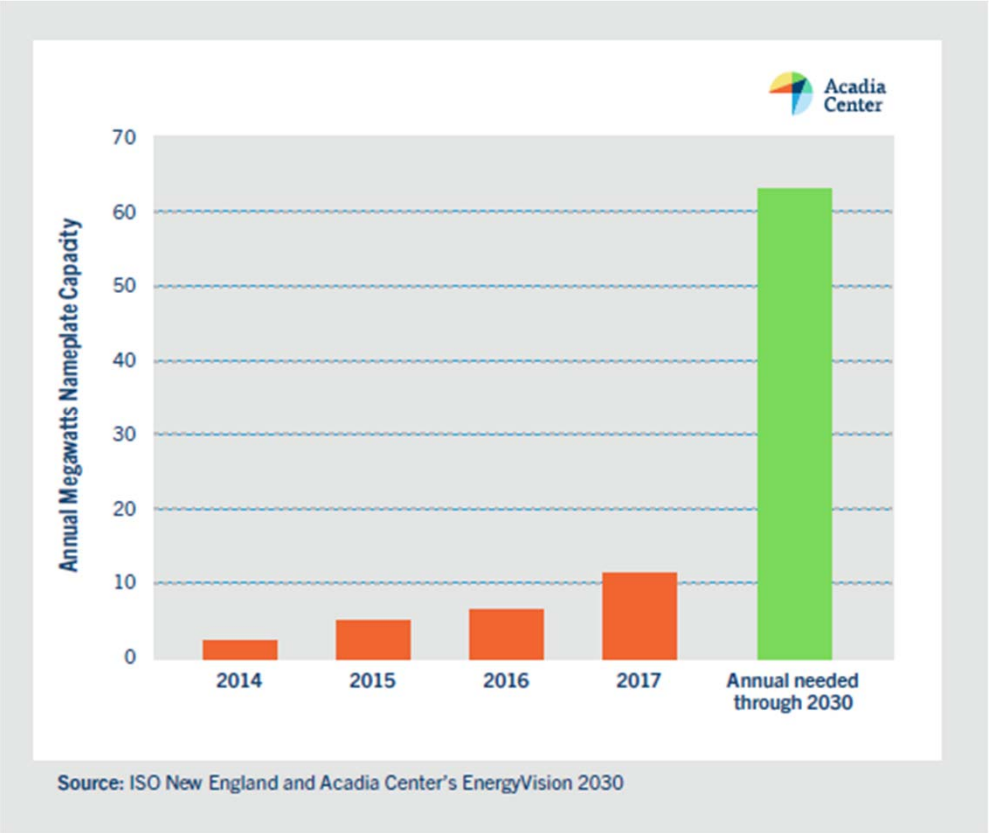
Source: ISO New England DG forecast data & US Census

New Hampshire has
DOUBLE
Maine's installed solar.

Massachusetts has
SIX TIMES MORE.

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Current Rates Won't Meet Maine's Goals



Source: ISO New England and Acadia Center's EnergyVision 2030

Annual distributed solar installations must

QUINTUPLE

to meet 2030 emissions reduction goals.

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Major Benefits of a New Approach



1,285 new jobs



$142 million
in increased personal income

$9 million
annually in new state tax revenue



energy independence
&
emissions reductions

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2: Transition to Clean, Local Power

Maximize cost-effective clean energy deployment—from distributed, rooftop solar to grid-scale renewables.

Maine's Building Landscape

The poor energy performance of Maine's many aging buildings and high dependence on heating oil drives up costs and emissions.

We send nearly $4000 per person out of state for the purchase of fossil fuels.

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A Stronger Building Sector

Efficiency and clean heating technologies lower energy costs, improve building health & comfort, and support skilled local jobs.

Maine is already leading the region in heat pump adoption. We can boost efficiency for all residents and businesses.

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Maine is Lagging. . .and Leading

Policy	Best Practice Status	Maine Current Status	2030 Recommendations
Electric Energy Efficiency Annual Savings Level	Massachusetts – 2.9% (2017 plan)	1.6% (2016 actual) – 2017 plan not available	3.0%[2]
Residential Heat Pump Conversion Rate	Maine – 0.8% (2016)	0.8% (2016)	1.0% through 2030

Acadia Center, Maine: Pathway to 2030

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Major Benefits of a New Approach



3,626 new jobs



$306 million
in economic growth from efficiency delivered to thousands of residents and businesses



$259 million
in consumer and energy system benefits

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3: Improve Building Energy Performance

Prioritize consistent investment in efficiency and clean-heating through market development, workforce training, and consumer education & incentives.

Maine's Energy Grid Landscape

Rules and regulations are out of sync with technological advances and consumer expectations for a clean, reliable energy system.

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A Stronger Energy Grid

System planning and utility business model changes can reduce consumer costs and support energy innovation.

Maine has the tools to put consumers at the center of a clean, innovative, cost-effective power sector.

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Major Benefits of a New Approach



fair consideration

of cost-effective non-transmission alternatives to infrastructure investments



fair payment & compensation

for electric consumption and generation



strategic alignment

between utility incentives and policy goals

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4: Reform Energy Grid Rules

Put customers at the center of power sector planning to control costs, optimize demand, and reduce strain on the grid

Maine's Community Landscape

Communities are on the front lines of creating a sustainable, low-carbon future, but outdated state policies often stand in their way.

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Stronger Maine Communities

Resilient communities are empowered to set ambitious, achievable goals, collaborate at the local level, and scale up successful action.

Maine can empower communities to lead.

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Current Policies Limit Action

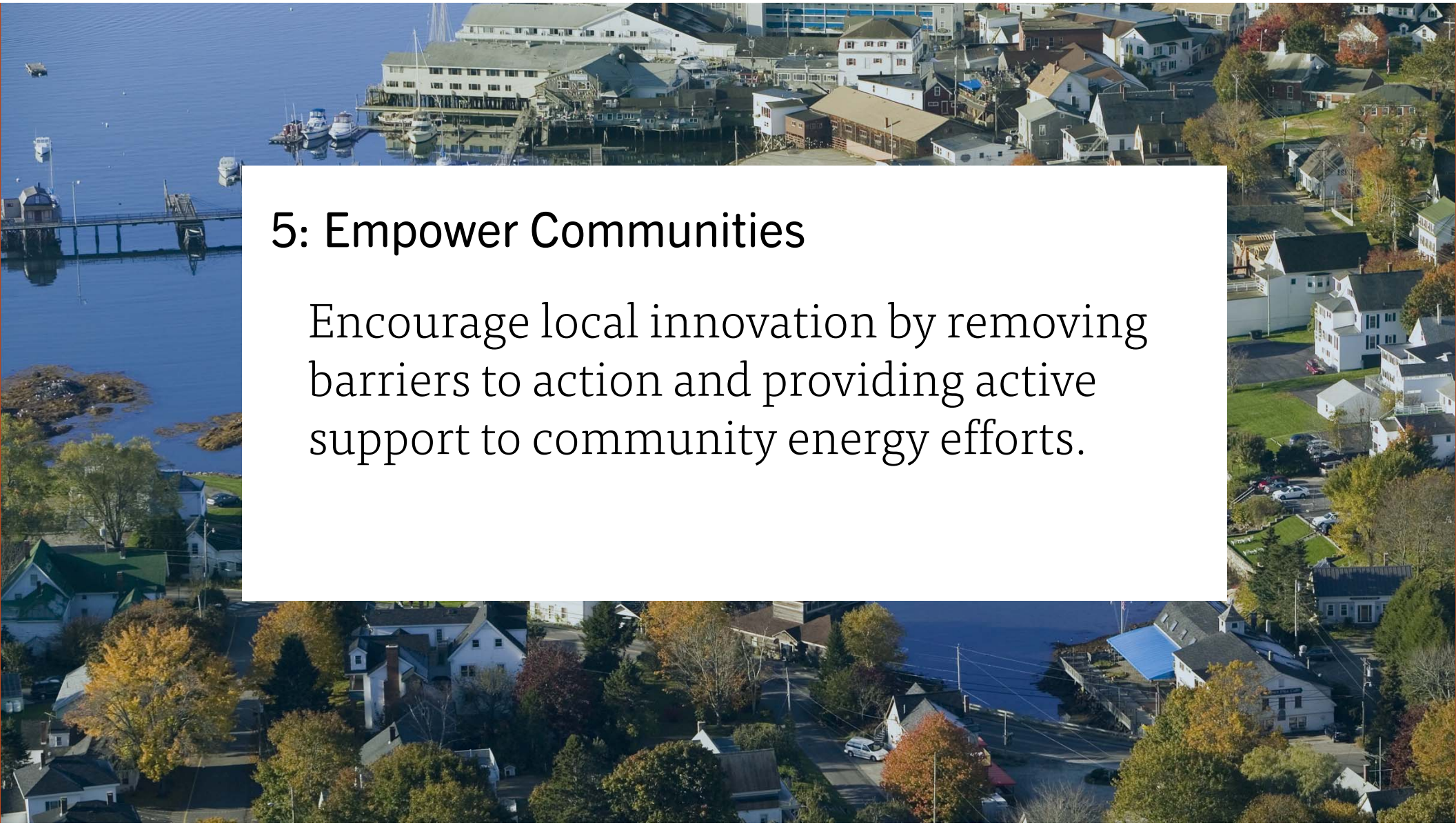
Local initiatives to
REDUCE EMISSIONS

and achieve
ENERGY INDEPENDENCE



Are compromised by restrictions on
COMMUNITY SOLAR, MUNICIPAL MICROGRIDS, BUILDING CODES, and more.

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5: Empower Communities

Encourage local innovation by removing barriers to action and providing active support to community energy efforts.

Transportation and Energy Reforms Build a Stronger, More Vibrant Maine



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