

Climate Change Legislation And What it Means for the Northeast

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State and local governments ARE THE KEY to energy and climate solutions

- Federal legislation notwithstanding, state and local governments are, and will continue to be the ones implementing the measures that reduce emissions.
- State and local governments are raising the bar and developing the models for successful action to reduce emissions, save energy and shift to clean renewable energy.

States Set The Stage For Change

WESTERN GOVERNORS CLIMATE INITIATIVE (WGCI)
Seven Western states have created a program that will reduce global warming pollution in the region to 15 percent below 1990 levels by 2020. States: WA, MT, OR, CA, UT, AZ, NM.

NORTHEAST AND MID-ATLANTIC REGIONAL GREENHOUSE GAS INITIATIVE (RGGI)
Ten Northeast and Mid-Atlantic states have banded together to require a 10 percent reduction in pollution that causes global warming from power plants by 2018. States: ME, NH, VT, NY, MA, CT, RI, NJ, MD, DE.

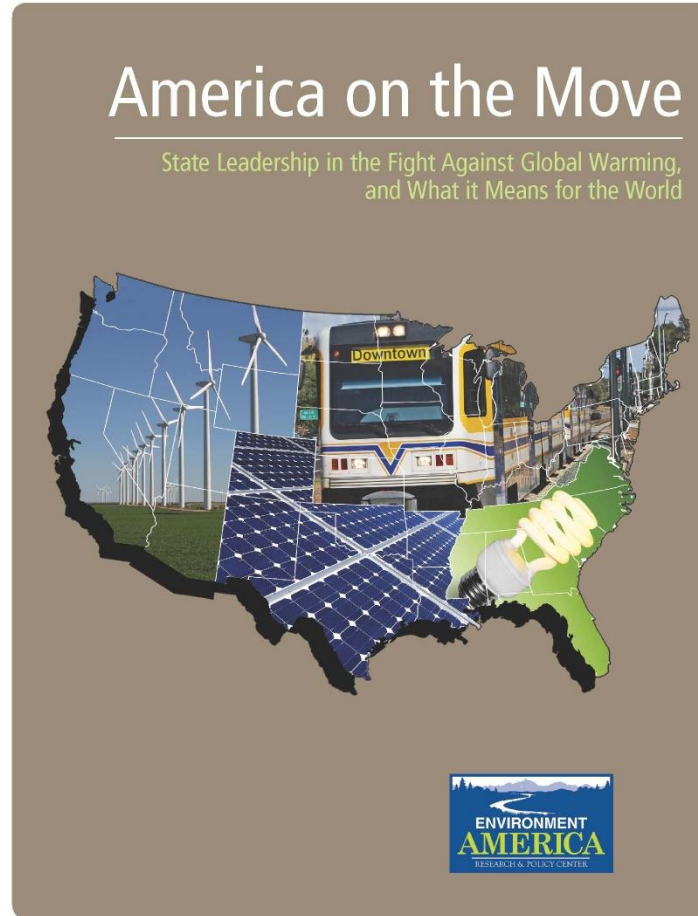


- VT
- NH
- CT
- NJ
- DE
- MA
- RI
- MD
- DC

STATE RENEWABLE ENERGY STANDARDS
 CLEAN CARS: Adopted the California Clean Cars Program, including Greenhouse Gas Emissions Standards
 RESIDENTIAL BUILDING EFFICIENCY CODES: Meet or exceed the 2006 modern residential building energy efficiency codes
 COMMERCIAL BUILDING EFFICIENCY CODES: Meet or exceed the 2004 commercial building energy efficiency codes
 UTILITY ENERGY EFFICIENCY PROGRAMS: Programs that spend more than 1 percent of revenues on efficiency
 STATEWIDE CARBON CAPS
 ENVIRONMENT AMERICA STATE ORGANIZATION

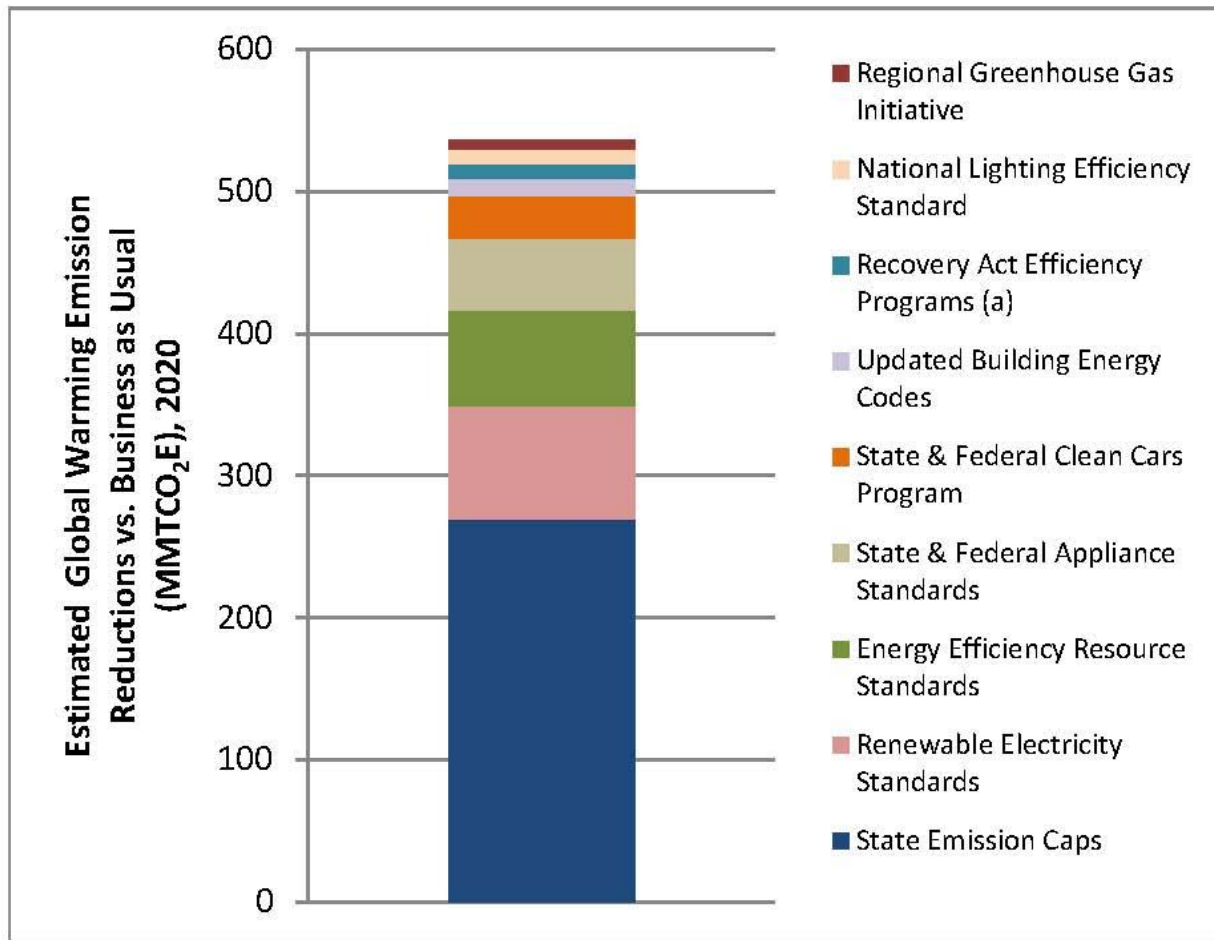
ENVIRONMENT AMERICA
 POLICY & RESEARCH
www.environmentamerica.org

America on the Move: State Leadership in the Fight Against Global Warming and What it Means for the World



- <http://www.environmentamerica.org/home/reports/report-archives/global-warming-solutions/global-warming-solutions/america-on-the-move-state-leadership-in-the-fight-against-global-warming-and-what-it-means-for-the-world>

State energy/climate policies will yield emission reductions of >500MMT of CO₂ by 2020. Approx 25% of reduction from Policies in the Northeast



State Regulatory Policies Moving America Toward Emissions Reductions

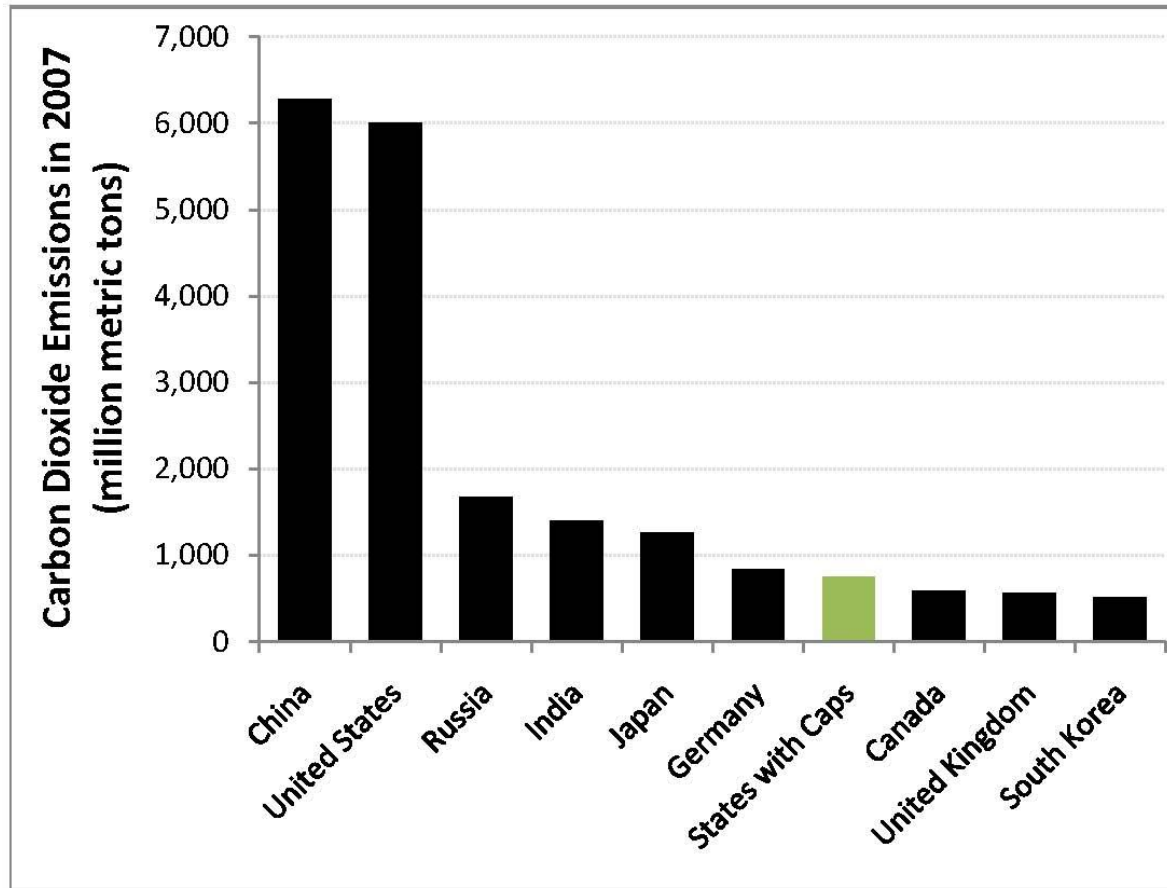
- Emission caps (State and Regional)
- Renewable Energy Standards
- Energy Efficiency Resource Standards
- Clean Cars Programs
- Building Codes

Northeast states have been leaders...

Six States have enacted mandatory economy-wide global warming emission caps with most in Northeast

- **Maryland** - April 2009 -- 25% below 2005 levels by 2020.
- **Massachusetts**- July 2008 - 10% to, as much as 25% below 1990 levels and 80% below 1990 levels by 2050.
- **Connecticut** - June 2008 - 10% below 1990 levels by 2020 and 80% below 1990 levels by mid-century.
- **New Jersey**- July 2007 - “at or below” 1990 levels by 2020 and to 80 percent below current levels by 2050.
- **Hawaii** – June 2007 - “at or below” 1990 levels by 2020.
- **California** - September 2006 - 1990 levels by 2020.

Carbon Dioxide Emissions from Six States with Caps, Compared with Leading Emitting Countries

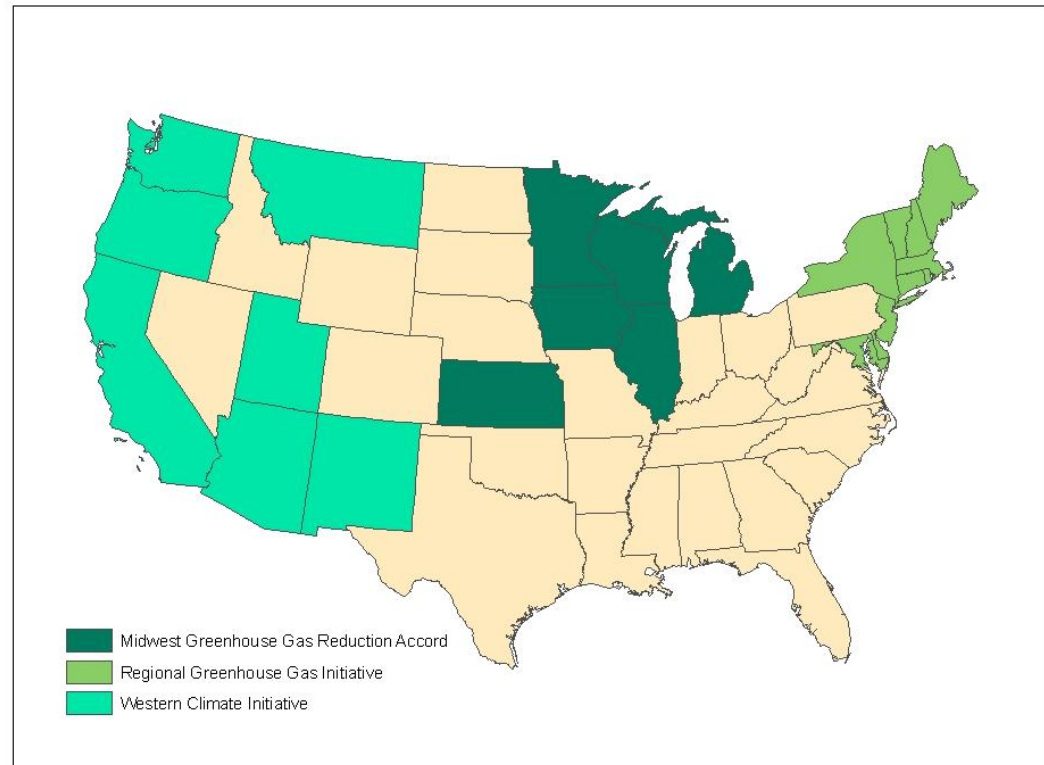


Regional Greenhouse Gas Efforts

- **Northeast Regional Greenhouse Gas Initiative -10% reduction in power sector emissions by 2019. Auctions pollution permits and uses the \$ to lower costs by investing in energy efficiency.**

- **Western Governors Climate – Agreement (WA, OR, CA, NM, MT, AZ, and UT) 15% below 1990 levels by 2020. Legislatures still considering.**

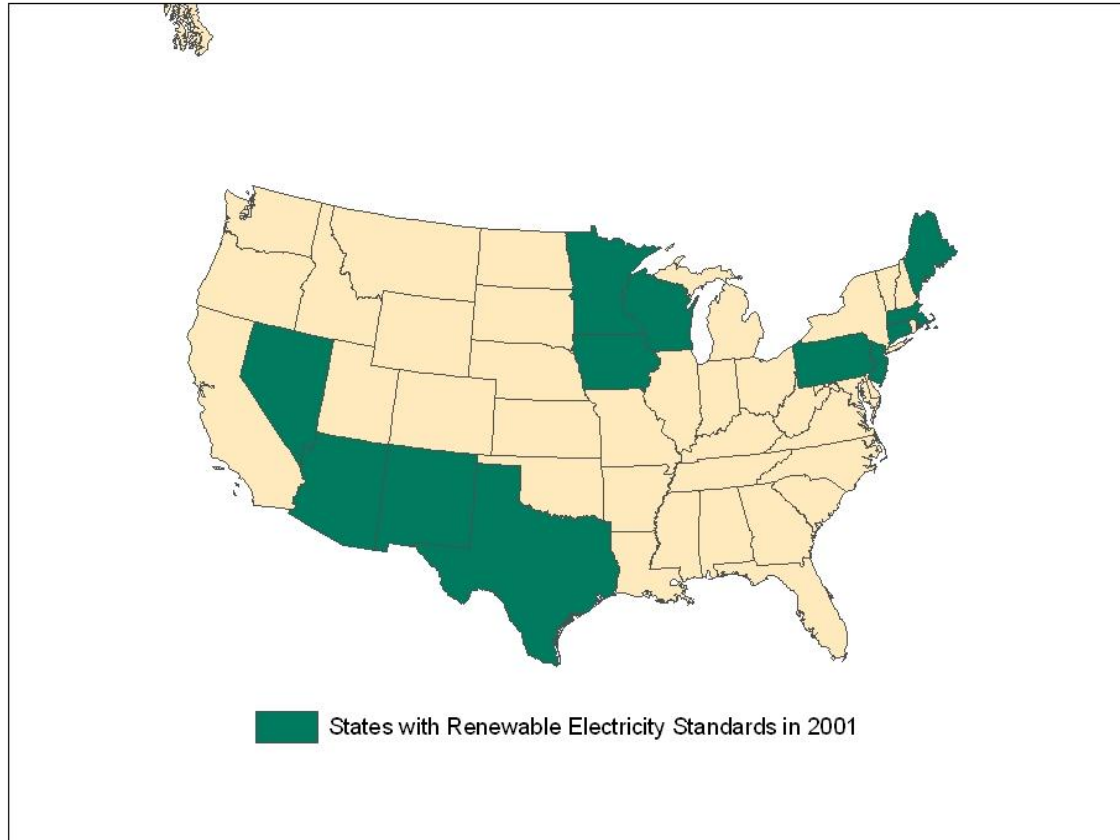
- **Midwest Governors Agreement– Reached agreement on goals.**



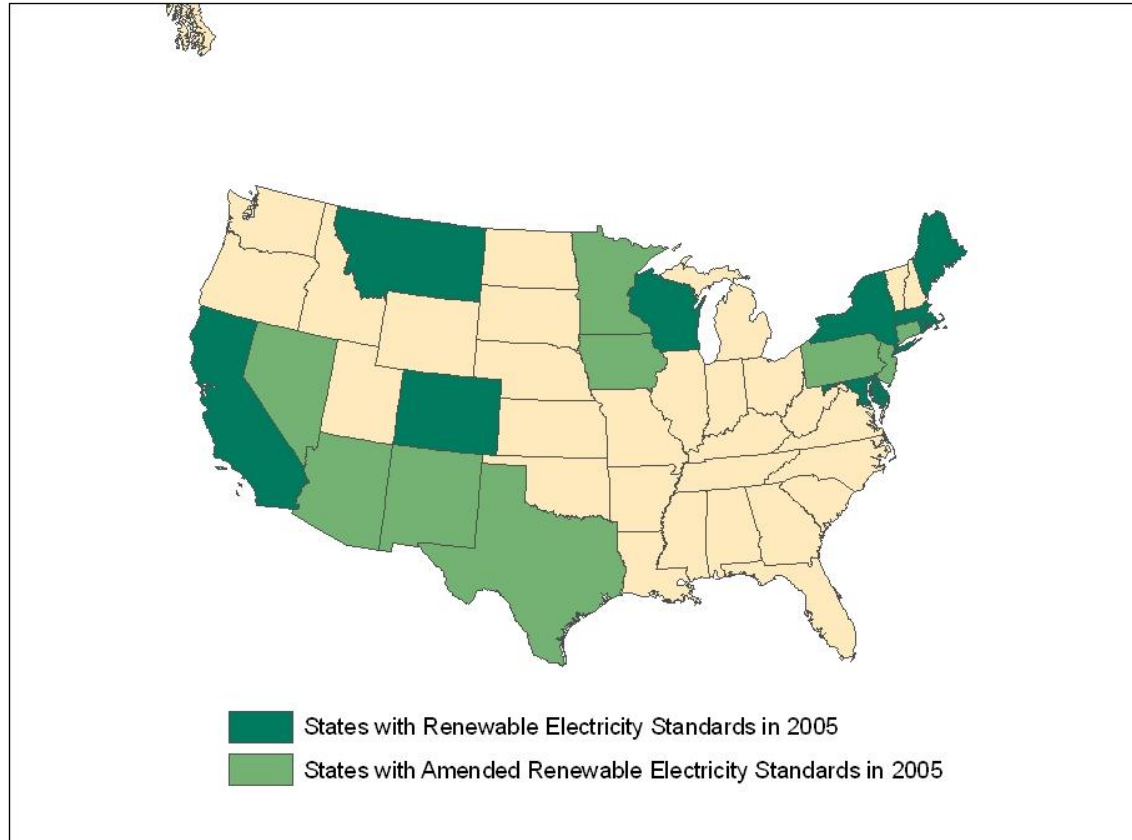
Clean Cars Program 14 States Yielded 80M tons in avoided pollution by 2020

- ▶ Arizona, California, Connecticut, Maine, Massachusetts, Maryland, New Jersey, New York, Oregon, New Mexico, Pennsylvania, Rhode Island, Vermont, and Washington.
- ▶ Put in place annual oil savings of more than 8 billion gallons of gasoline by 2020 (more than Florida uses in a year).
- ▶ Driving innovation in the automobile industry.
- ▶ Now the basis for the national clean cars program to be adopted in the next several months.

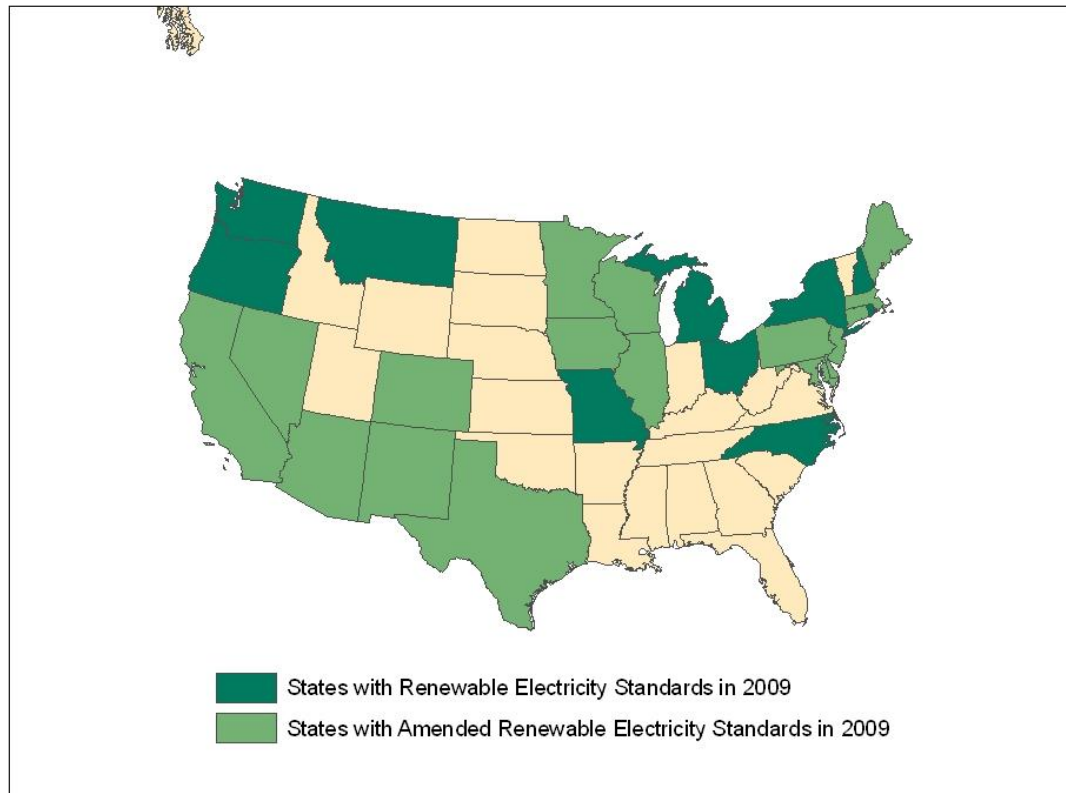
States with RES's in 2001



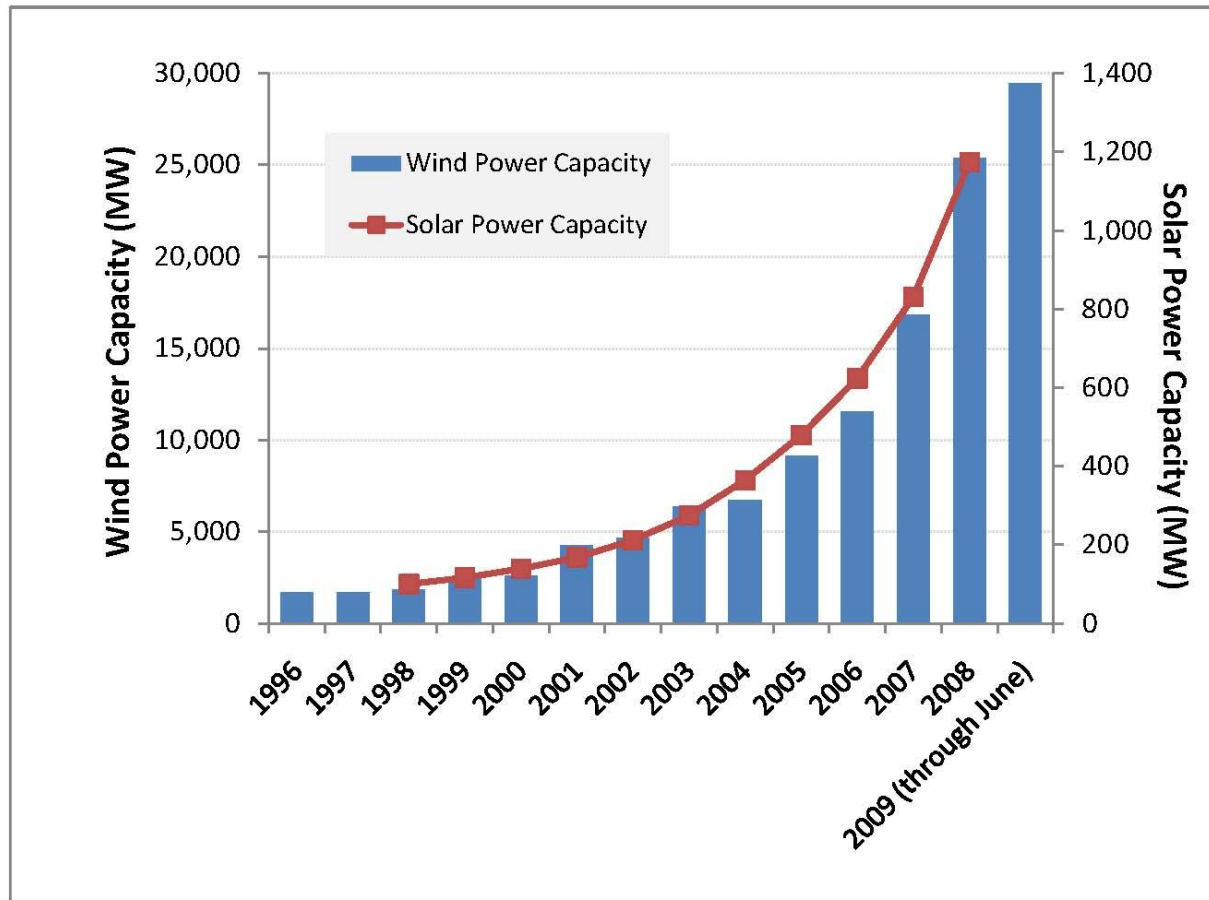
States with RES's in 2005



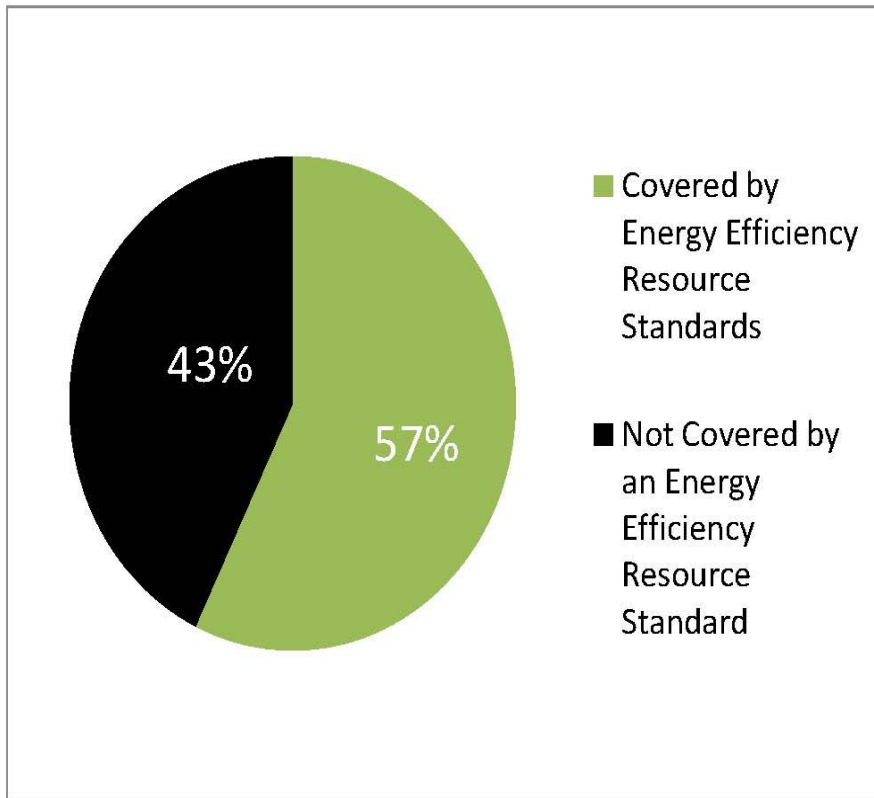
States with RES's in 2009



A Growth Trajectory



Percentage of U.S. Electricity Sales in 22 States with Energy Efficiency Resource Standards

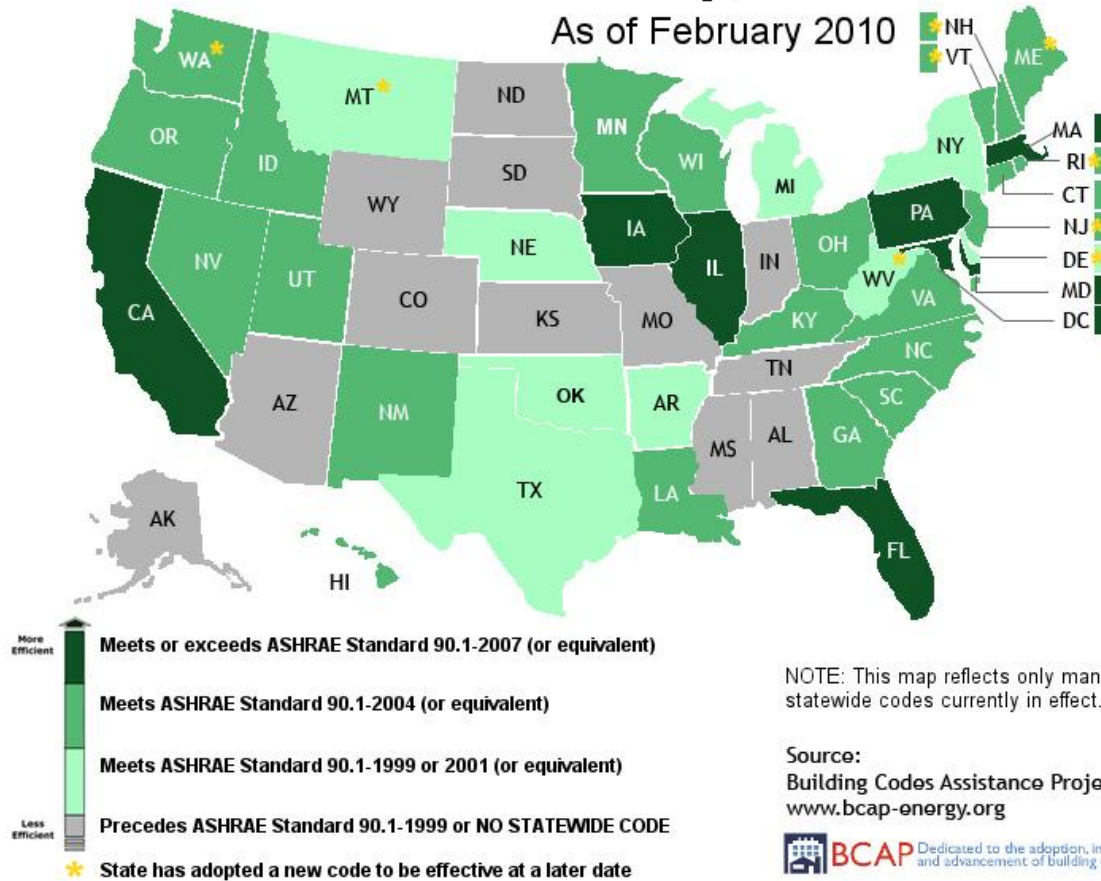


State energy efficiency programs, meanwhile, saved approximately 63 billion kilowatt-hours of electricity in 2007, enough to power 5.6 million American homes.

Status of Commercial Building Codes

Commercial State Energy Code Status

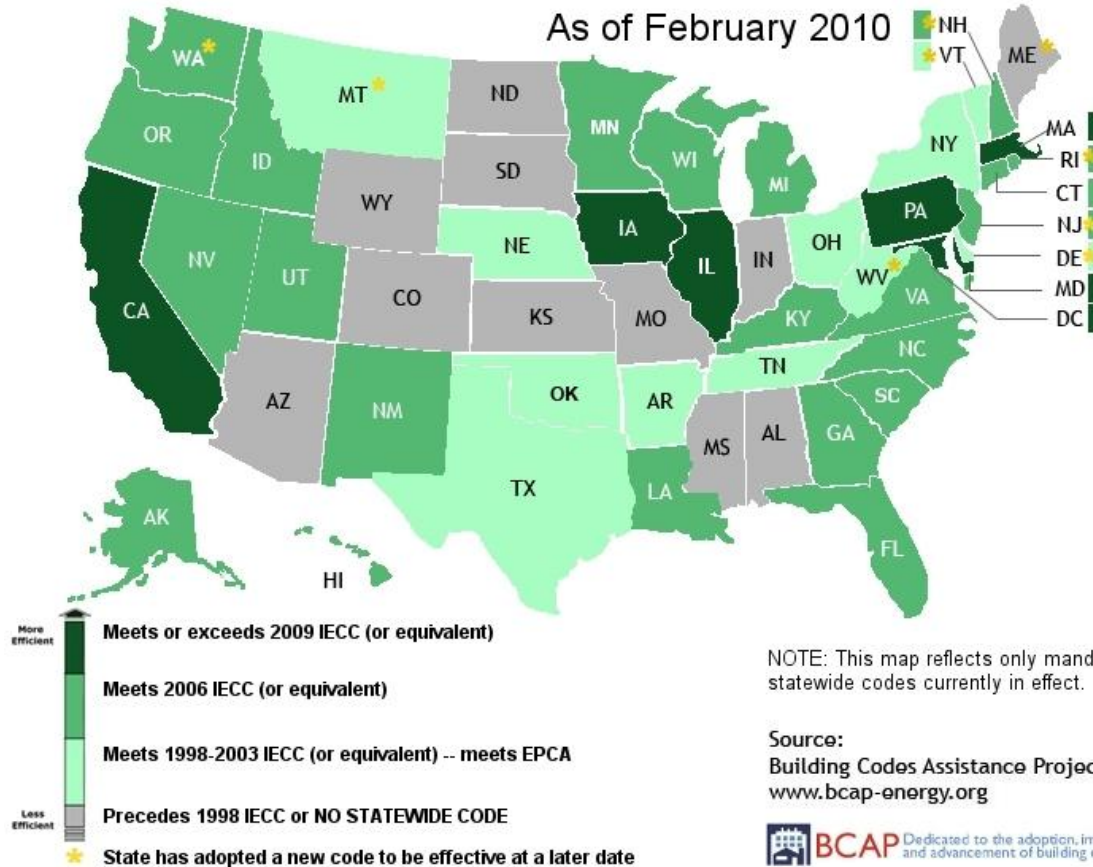
As of February 2010



Status of Residential Building Codes

Residential State Energy Code Status

As of February 2010



NOTE: This map reflects only mandatory statewide codes currently in effect.

Source:
Building Codes Assistance Project
www.bcap-energy.org

 **BCAP** Dedicated to the adoption, implementation, and advancement of building energy codes

Policies Going Forward – Opportunities for the Northeast States

- Ramping Up Building Codes 30%→50%→zero net energy
- Channel money to Efficiency of Existing Buildings, Homes and Businesses
- Policies to drive investment in and eliminate obstacles to clean energy and energy efficiency
- Policies to drive investments in oil reduction as if energy independence and climate really matters
 - Plug in electric vehicle development
 - Next wave of clean cars standards
 - Clean Fuels development (Low Carbon Fuels Standards)
 - Public transportation and land use

Things to look for in Federal legislation (besides a cap)

- Auction Revenues – Securing \$ for the shift to clean energy and transportation.
- States' authority to lead – Ensure that states retain authority to go beyond Feds.
- Ensure that investments in R&D go to the most promising clean technologies.
- Ensure that investments in deployment of clean energy and transportation go to the actions that get the most reductions at the least cost to society in the short and long-terms.
- Strong core energy policies.