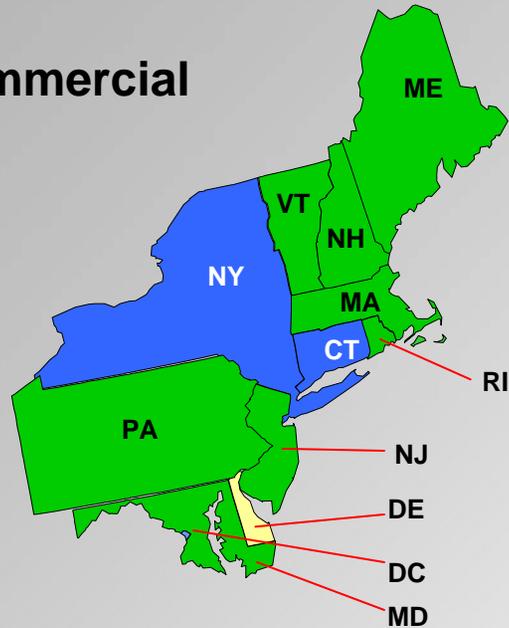


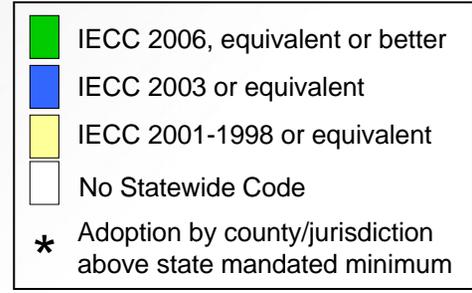
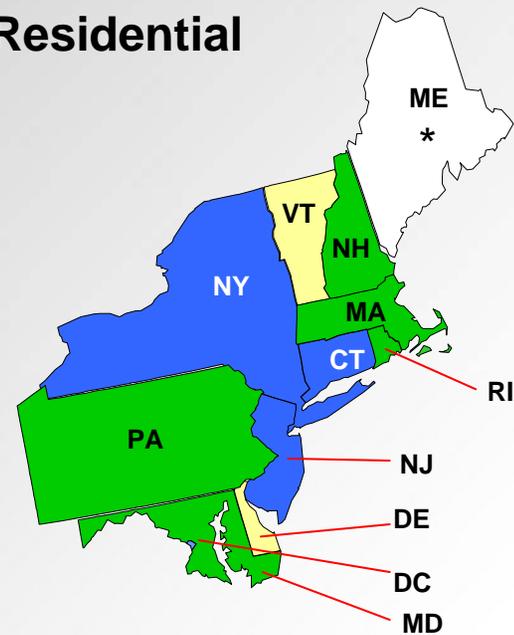


NEEP – Northeast Energy Efficiency Partnerships

Commercial



Residential

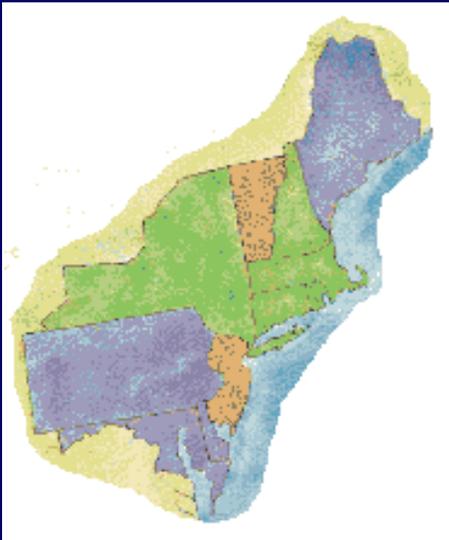




Northeast / Mid-Atlantic

Our Middle Name Is “Efficiency”

We do the heavy lifting BECAUSE we:



- Are LITERALLY at the END of the pipeline
- Have been doing efficiency much longer than all the rest of you guys
- Have to be efficient; otherwise our real estate gets engulfed by the rising tides

Success Story

Top 10 States Rankings For Electric Efficiency in Office Buildings*

Rank	State	Percent Exceeding Energy Star Standard	Percent Cost Savings
1	Maine	41.70 %	29.9 %
2	Massachusetts	40.07	27.8
3	New Hampshire	37.77	24.9
4	Vermont	37.72	24.1
5	Nevada	35.57	22.2
6	New York	33.27	18.9
7	California	33.22	19.2
8	Connecticut	33.17	19.0
9	Rhode Island	33.13	19.4
10	New Jersey	32.64	19.1

*Energy economist, author and Texas A&M University professor Jerry Jackson, Ph.D.; July 15/PRN



the 'RIGHT' Coast

WHERE ARE WE GOING? NET ZERO - ULTIMATELY

Any Other States Wish To Join Us In
Passing Above-Code Standards
Through *THEIR* Legislative Process?

IT'S MORE FUN THAN
DEALING WITH A
BARRELFUL OF MONKEYS
- *ANYTIME*

A close-up, slightly blurred image of the American flag, showing the stars and stripes. The flag is positioned at the bottom of the slide, with the stars on the left and the stripes on the right.

the 'RIGHT' Coast



State of Maryland

State Motto : "*Fatti Maschii Parole Femine*"
(strong deeds, gentle words) – Italian, 1776

The Maryland motto, *Fatti Maschii Parole Femine*, has not specifically been adopted as a state motto. Rather, it has been accepted as a state motto because it was adopted as an element of the [Maryland State Seal](#).



Success Story

The Energy Code for Maryland was established in 1981 under the Energy Conservation Building Standards Act enacted by the Public Service Commission. Maryland has routinely adopted the latest International Energy Conservation Codes - the 2006 IECC is now in effect.



Energy Code Compliance

- Adoption of the Energy Code takes place under the Maryland Building Performance Standards (MBPS).
- The MBPS is comprised of the 2006 ICC: Building Codes, Plumbing and Heating Codes, Electrical Codes, Fire and Life Safety Codes, including the 2006 IECC.



Energy Code Compliance

Local jurisdictions (Counties and Municipalities) enforce the State Energy Code and can not modify the 2006 IECC to a lesser requirement.

REScheck & COMcheck
allowed to meet energy compliance.





New Jersey Garden State

(it's easier to fit on a license plate than "Oil and Petrochemical Refinery State")

Statewide enforcement of construction codes since 1977

- One of the first states to adopt the 2006 IECC, w/ State amendments
- Seventh Greenest State (Forbes, 10-17-07)
- Eighth Energy Efficient State (ACEEE, 2006)
- State developed code (Uniform Construction Code -- UCC); local plan review/inspection by licensed code officials



Success Story

- Statewide energy code enforcement for the past 31 years by licensed code officials -- in other words, we actually check for what we require!

A close-up, slightly blurred image of the American flag, showing the stars and stripes. The flag is positioned at the bottom of the slide, with the stars on the left and the stripes on the right.

New Jersey

Energy Code Compliance

- We're known for:
 - 4 ways to comply with IECC/2006 for low-rise residential buildings; 2 ways to comply with ASHRAE/2004 for commercial buildings (see UCC Bulletin 07-2 at www.nj.gov/dca/codes)
 - REScheck and COMcheck continue to be the most popular way to demonstrate compliance
- We struggle with:
 - Simplifying the confirming of energy code compliance to make it easier for code officials to verify (REScheck and COMcheck have helped immensely)

A graphic of the American flag, showing the stars and stripes, positioned at the bottom of the slide.

New Jersey

Other things NJ is known for...

- Largest petroleum containment area outside of the Middle East countries
- Highest population density in the US (avg. 1,030 people per sq. mi., which is 13 times the national average)
- Highest % urban pop. in the US (about 90% of the people living in an urban area)
- Only state where all its counties are classified as metropolitan areas
- N. NJ is the car theft capital of the world (more cars stolen in Newark than any other city, even the 2 largest cities, NYC and LA put together)
- Most dense system of highways and railroads in the US
- Most diners in the world and is sometimes referred to as the diner capital of the world
- N. NJ has the most shopping malls in one area in the world (7 major shopping malls in a 25 sq. mile radius)
- Leading industrial state and is the largest chemical producing state in the nation

A close-up, slightly blurred image of the American flag, showing the stars and stripes. The flag is positioned at the bottom of the slide, with the stars on the left and the stripes on the right.

New Jersey



New York State The Empire State

New York State Energy Code Statewide mandate-
January 1979, preceding the Statewide Uniform Code.

New York State has energy compliance flexibility.
Allows various software compliance paths.

Allows for trade-offs which encourage innovative
energy conservation methods



Success Stories

- **Compressed Energy Subcommittee process for next NYS Energy Code Cycle -2009**
- **Accelerated adoption of ASHRAE 90.1 2004 (Technical basis for LEED NC 2.2)**
- **DOS in planning stages for a “Green Building” Symposium.**



New York

Energy Code Compliance

- New York-State wide implementation and *acceptance* of RESCheck and COMCheck as predominant methods of energy compliance.
- Opportunity to expand awareness of full scope of NYS Energy Code.
 - On-line video classroom training.
 - Outreach code training
 - DOS staff “above and beyond” training efforts

A close-up, slightly blurred image of the American flag, showing the stars and stripes. The flag is positioned at the bottom of the slide, with the stars on the left and the stripes on the right.

New York



New Hampshire

Live Free or Die

In June 1979, New Hampshire's General Court (Legislature) first adopted a variation of ASHRAE 90-75 as the state-wide energy building code.

Enforcement authority was placed in the hands of the municipalities where it remains today.

In August of last year, the code was updated to the IECC 2006 amended to combine the state into a Zone 6 not 5.



Success Story

- We applaud the IECC for the wonderful simplification of the 2006 code which makes:
 - Compliance more likely
 - Inspection more feasible and
 - Administration less costly

A graphic of the American flag, showing the stars and stripes, positioned at the bottom of the slide.

New Hampshire

Energy Code Compliance

Many builders, all of whom remain unlicensed, still don't know that the energy code exists.

Still, the new code seems popular with builders, compliance officers and homeowners alike.

A graphic of the American flag, showing the stars and stripes, positioned at the bottom of the slide.

New Hampshire



Pennsylvania

Virtue, Liberty, and Independence

- We are one of 23(?) states to have adopted the **2006 IECC**.
- We **adopt the most recent set of I-codes** within a year
- A law is pending that would adopt a **review of the I-codes** prior to their adoption as a result of the 2006 anchor bolt requirements



Success Story

- The state adopted the Pennsylvania Alternative Energy Provisions in 2003
 - Simplified climate zones (like 2006 IECC)
 - Slab thermal break (constructability)
 - HVAC equipment efficiency trade-offs

A graphic of the American flag, showing the stars and stripes, positioned at the bottom of the slide.

Pennsylvania

Energy Code Compliance

- We're known for requiring ICC energy certification for code officials and continuing education.
- We struggle with having over 2,300 different local governments in charge of administering and enforcing the code.

A graphic of the American flag, showing the stars and stripes, positioned at the bottom of the slide.

Pennsylvania



Rhode Island



Massachusetts

“Ense petit placidam sub libertate quietem”

(By the sword we seek peace,
but peace only under liberty)

It takes a lot of energy to write an energy code
that won't allow the use of much energy



Success Story

The Massachusetts Building Code/
Energy Code is required in all cities
and towns of the Commonwealth:

- this results in updated energy conservation requirements being imposed on all new construction buildings everywhere in the State.

A graphic of the American flag, showing the stars and stripes, positioned at the bottom of the slide.

Massachusetts

Energy Code Compliance

- “*We’re known for taking far too long to update our Building Code* but... will, by early October 2008, require energy conservation conformance to the IECC-2006 + 2007 IECC Supplement or ASHRAE 90.1-2007.
- “We struggle with *taking far too long to update our Code.*”

A graphic of the American flag, showing the stars and stripes, positioned at the bottom of the slide.

Massachusetts



Connecticut

The Constitution State

a/k/a

“ The Red Sox/Yankees (Patriots/Giants) Combat Zone”

- **FIRST** state to adopt mandatory building codes - 1970
- 1989 – Adopted the CABO Model Energy Code [MEC]



EFFICIENCY:

Vermont may have more wood stoves – we bought our way to the top.

ACEEEE→

Table ES-1. Summary of State Scoring on Energy Efficiency

Rank	State	Utility Spending on EE	EERS	Combined Heat & Power	Building Codes	Transportation Policies	Appliance Standards	Tax Incentives	State Lead by Example	TOTAL SCORE
	<i>Maximum Points:</i>	15	5	5	5	5	3	3	3	44
1	Vermont	15	5	3	3	4	2	0	1	33
1	Connecticut	11	5	5	4	4	1	2	1	33
1	California	7	5	5	5	3	3	2	3	33
4	Massachusetts	13.5	0	4	2.5	4	2	1	2	29
5	Oregon	11.5	0	4	4	3	2	3	0.5	28
6	Washington	9.5	3	3	4	4	2	1	0.5	27
7	New York	5	0	5	3	5	2	2	3	25
8	New Jersey	7	1	5	2.5	4	1	0	1.5	22
9	Rhode Island	8.5	0	1	4	4	2	0	0.5	20
9	Minnesota	7	3	3	4	2	0	0	1	20

2 of 2 America's Greenest States

Brian Wingfield and Miriam Marcus 10.17.07, 6:00 AM ET

RANK	STATE	SCORE
1	Vermont	43.6
2	Oregon	43.6
3	Washington	43.4
4	Hawaii	41.3
5	Maryland	40.4
6	Connecticut	39.8
7	New Jersey	39.5
8	Rhode Island	38.7
9	New York	38.1
10	Arizona	37.9

If CT had more hills you couldn't build on, we'd be up there with Vermont.

← Forbes Greenest States

Connecticut

A Connecticut Success Story:

- Energy turn-back funds were used to train code officials in energy compliance (1989), using the CABO Model Energy Code:
 - *the original rocket-science manual* -
- Way back in the days before DOE was writing training programs (!)

A close-up, slightly blurred image of the American flag, showing the stars and stripes. The flag is positioned at the bottom of the slide, with the stars on the left and the stripes on the right.

Connecticut

Energy Code Compliance

- “We’re known for our legislative mandate to construct all new state buildings to at least 21% more efficient than current code.”
- “We struggle with too many builders that have *‘ALWAYS DONE IT THAT WAY.’*”

A close-up, slightly blurred image of the American flag, showing the stars and stripes. The flag is positioned at the bottom of the slide, with the stars on the left and the stripes on the right.

Connecticut



MAINE

"The Way Life Should Be"



New Legislation Provides Uniform Code Administration and Training

- Passed April 2008: “An Act to Establish Uniform Building and Energy Codes”
- A state appointed board will adopt a building, rehab and energy codes (IBC, IRC, IEBC, IECC) for the state, effective Jan. 1, 2010
- Towns will no longer adopt or amend codes; all code amendments and updates will be done by the state board, with input from towns

The bottom of the slide features a decorative banner with a blurred American flag. The stars are on the left, and the stripes are on the right. The word "Maine" is written in white serif font over the stripes.

Maine

“The way life should be”

Maine: New Legislation

- Towns with >2000 residents must enforce the code
- Training for code officials to be provided by the state
- Towns have four enforcement options

A close-up, slightly blurred image of the American flag, showing the stars and stripes. The flag is positioned at the bottom of the slide, with the stars on the left and the stripes on the right.

Maine

"The way life should be"

Local Enforcement Options

- **1. Provided by the town, paid by permit fees**
- **2. Contract services with regional agency**
- **3. Share services with other towns through an inter-local agreement**
- **4. Receive third party inspection report from a certified inspector hired by the property owner or builder**

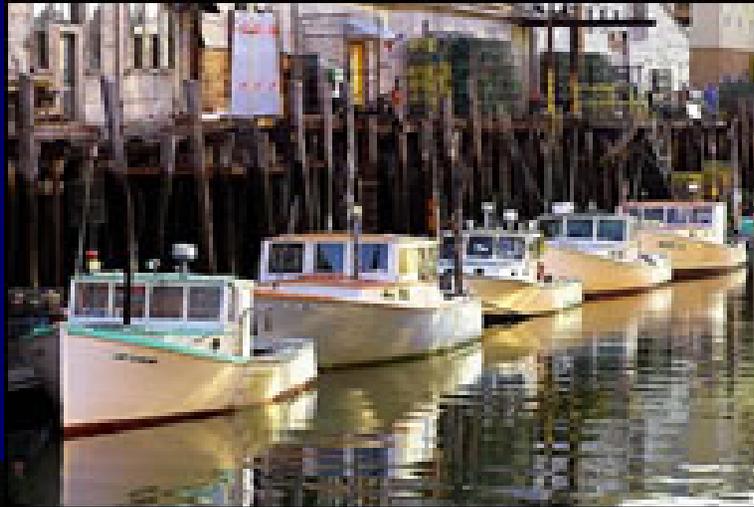
The bottom of the slide features a close-up, slightly blurred image of the American flag, showing the stars and stripes. The flag is positioned horizontally across the bottom of the slide.

Maine

"The way life should be"

Other Important Maine Stuff

- **Maine has more lobsters than people**
 - Lobster harvest 2007: 63,000,000 pounds
 - Maine population 2007: 1,300,000 people



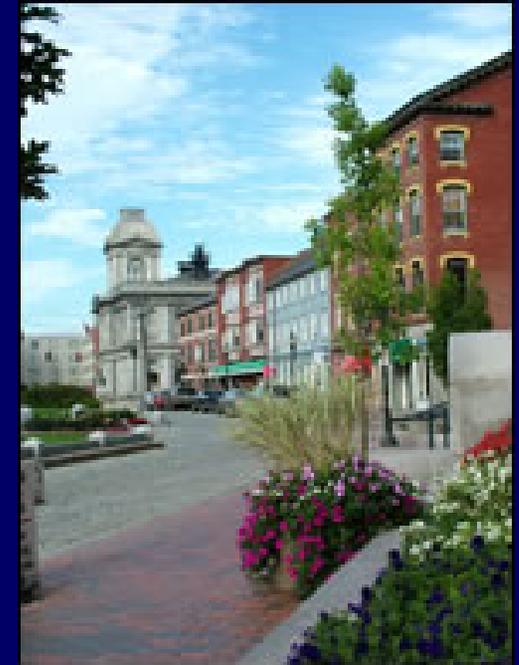
Maine

"The way life should be"

Other Important Maine Stuff



**Average age of
Maine cities and
towns: 200 years**



Length of Coastline: 3,500 miles

Lakes and Ponds: 6,000

Forest: 17 million acres

Maine

"The way life should be"