

State Energy Code Advocacy



Energy Codes 2007

July 26, 2007

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BCAP — Building Codes Assistance Project

- Non-profit advocacy group based in D.C.
- Founded in **1994** in response to EPA Act - 13 years of advocacy
- A **joint initiative** of the:
 - *Alliance to Save Energy,*
 - *National Resource Defense Council,* and
 - *American Council for an Energy Efficient Economy*
- BCAP's mission is to promote the **adoption, implementation,** and **advancement** of effective energy codes
- Funded primarily by **U.S. DOE**; additional funding from foundations, industry, and other government agencies



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US DOE- sponsored advocacy

- Why energy code advocacy?
- What does BCAP do?
- How can states receive code advocacy assistance?



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Goal:

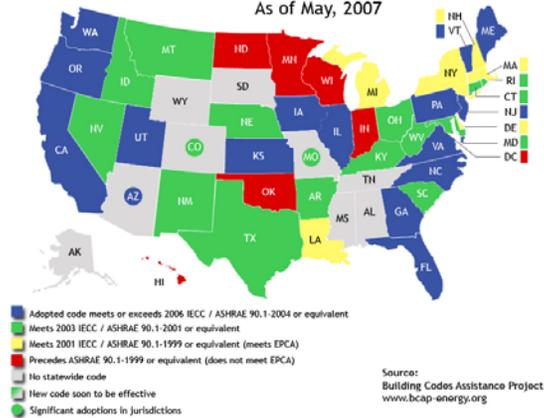
Support states in efforts to strengthen and/or adopt, and implement new energy codes

In general:

- Improve awareness,
- Provide public information, and
- Increase knowledge about energy codes
... to facilitate action

US DOE- sponsored advocacy

Commercial State Energy Code Status
As of May, 2007

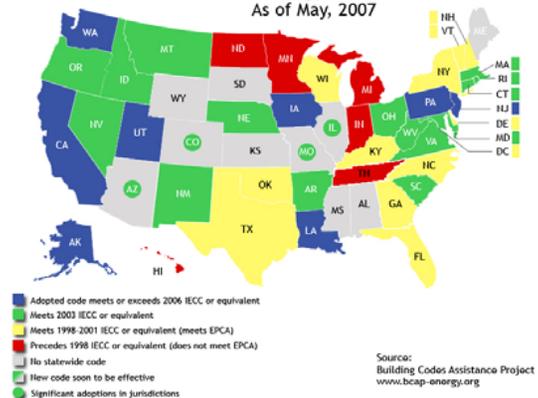


BCAP:

Collect and make available information on energy code advocacy and adoption

- Website
- Quarterly Newsletter
- Specific information source - on request

Residential State Energy Code Status
As of May, 2007



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Example: Mississippi

MS Energy Coordinator's Association (MECA):

- Energy impact of buildings
- Environmental impact of code implementation
- Local status of adoption, compliance, & energy use
- Benefits – homeowners, building owners, builders ...
- Changes in the code
- Available resources

Impact of Buildings

- Building energy consumption is almost **40%** of total energy use in the US
- **65.2%** of total U.S. electricity consumption
- Buildings are the nation's **largest source of global warming pollution**



The average home emits twice as much ghg as the average car

In 2004, 2+ million housing units permitted in US (NAHB)



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Role of Building Codes

Design + Construction of a New Building:

One of the most important opportunities for
reducing energy use & costs

**A new building can be energy-efficient from the
start, or**

**Be a lost opportunity that remains for the next
30-50 years or more**



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Code – Benefits to Builders/Developers

- Improves construction practices
- Creates a level playing field



- Reduce Callbacks!
Impact Energy, Moisture, IAQ and other problems that cost builders \$....



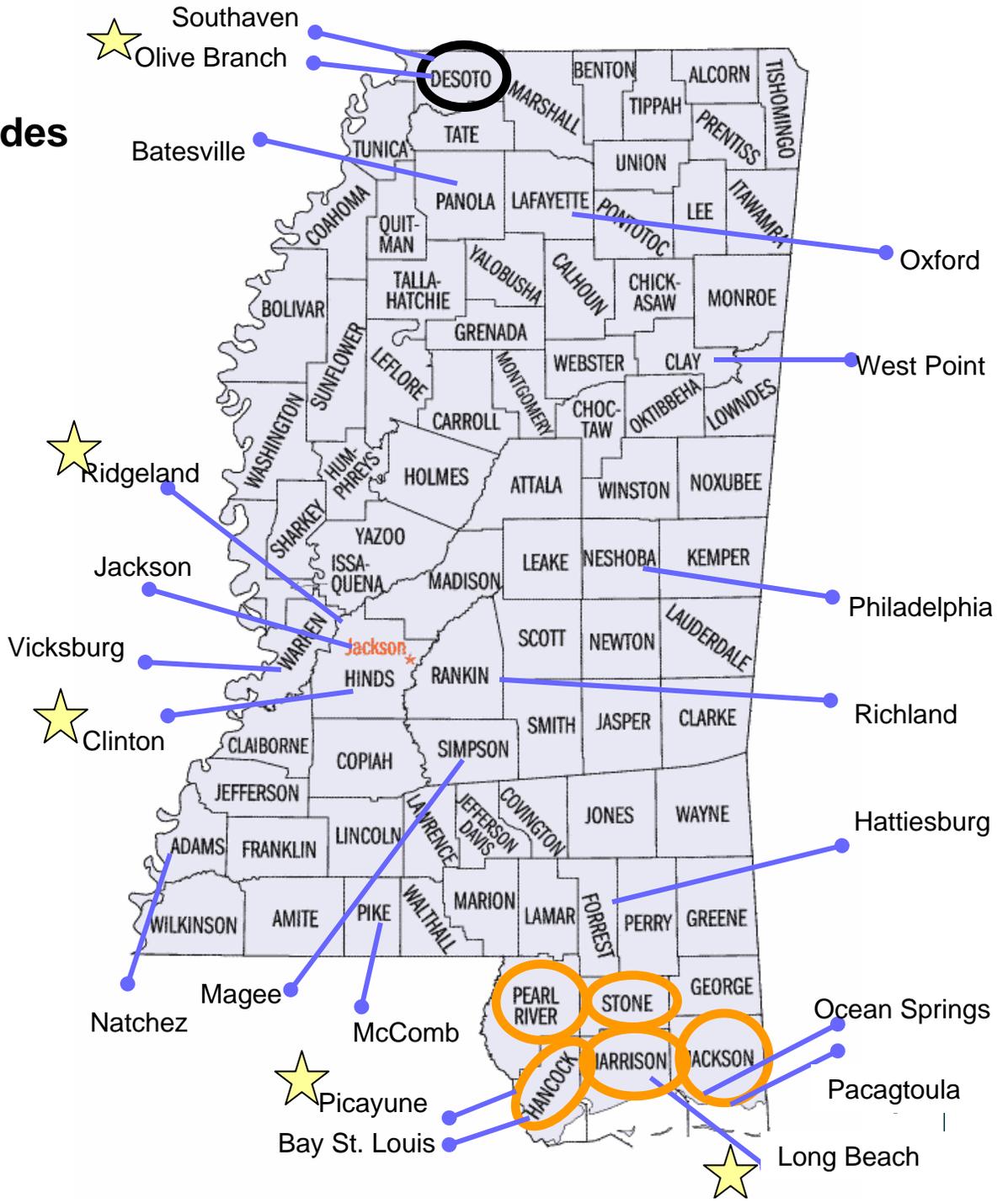
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Mississippi ICC Codes Infrastructure

Recent I-code adoptions:
 Harrison, Hancock, Pearl
 River Counties 2003 IBC/IRC
 Southaven, Picayune,
 Ocean Springs, Pascagoula,
 Bay St. Louis

- I-code(s) adoptions in towns or cities
- County-wide adoption of I-code(s)
- Counties covered under HB1406: Emergency wind and flood requirements from 2003 IRC, IBC in place until another code is adopted.
- ★ Adoption of **IECC** in towns, cities or counties



2006 Code Adoption

State	Code	Status
DC	DC Green Building Act	Comprehensive set of Green Building standards to be submitted by January 1, 2008
GA	2000 IECC with reference to ASHRAE 90.1-2004	Effective January 1, 2006
IA	Commercial: 2004 IECC	Effective April 1, 2006
NC	2003 IECC with reference to ASHRAE 90.1-2004	Effective July, 2006
PA	2006 IECC	Effective December 31, 2006
WV	2003 IECC	Effective May 15, 2006



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2007 Code Adoption

State	Code	Status
AK	Residential: 2006 IECC	Effective April 1, 2007
CO	2003 IECC or any successor edition for any jurisdiction that has adopted a building code	Effective July 1, 2007
GA	Amendments to the 2000 IECC	Effective January 1, 2007
IA	2006 IECC	Effective January 1, 2007 (Until March 31, 2007, buildings may comply with previous code)
ID	2006 IECC	Effective January 1, 2008
KY	2006 IRC, 2006 IBC	Effective August 6, 2007
LA	Commercial: ASHRAE 90.1-2004 Residential: 2006 IRC with energy provisions	Signed by governor on June 22, 2007 – effective date to be announced Effective January 1, 2007
MA	Residential: Code for Single and Two Family Dwellings; latest (7th) edition based on the 2003 IRC and IBC with state-specific amendments	Effective April 1, 2007 (Until October 1, 2007, buildings may comply with sixth edition)
MD	2006 IECC	Effective July 1, 2007
NH	Amendments to the New Hampshire Energy Code that will upgrade energy provisions to 2006 IECC	Effective August 17, 2007



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2007 Code Adoption

State	Code	Status
NJ	Commercial: ASHRAE 90.1-2004 Residential: 2006 IECC	Effective February 20, 2007 (Until August 20, 2007, buildings may comply with previous code)
NV	Clark County, Las Vegas, North Las Vegas, Henderson, Boulder City, Mesquite: Southern Nevada Energy Code based on 2006 IECC	Effective May 1, 2007
NY	Commercial: 2003 IECC Residential: 2004 IECC with state amendments	Effective August 1, 2007 (Tentative date)
OH	Commercial: IECC 2006/ASHRAE 90.1-2004 Residential: IECC 2006	Effective July 1, 2007 (Until December 31, 2007, buildings may comply with IECC 2003) Effective July 1, 2007
PA	2006 IECC	<i>Effective December 31, 2006</i>
RI	2006 IECC	Effective August 1, 2007
SC	2006 IECC	<i>Effective July 1, 2008</i>
UT	2006 IECC	Effective January 1, 2007
VT	Commercial: 2005 Vermont Guidelines for Energy Efficient Commercial Construction, based on the 2004 IECC supplement with amendments to reference ASHRAE 90.1-2004	Effective January 1, 2007
WA	Washington State Building Code upgraded with 37 energy provisions (More stringent than 2006 IECC)	Effective July 1, 2007



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Energy Codes & Air Quality Standards

- TEXAS – Home rule state – 2001 adoption of energy codes
- SB5 – 2000 IECC with 2001 Supplement
- SIP – Provides testimony to clean air potential



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Adoption Advocacy

Work with state advocates to provide information and resources for their code adoption efforts

- Review legislative language
- Provide input on proposed bills and effects on energy
- Collaborate with regional energy efficiency state alliances

Louisiana – 2006 IRC and ASHRAE Standard 90.1/2006
IECC

Colorado – considered a statewide energy code

Tennessee – updated 1992 code

Leveraging other activities:

www.codecollegenetwork.gov

Code College Network

Partner with Buildings Media Inc. (BMI)



- Provides media-based training
- Addresses needs of building professionals related to energy, related codes, energy efficiency, and building science
- Individual state-sponsored websites



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Leveraging other activities:

- Partner on State Energy Program grants
- Project-based contracts
 - Conduct workshops
 - Develop new materials/resources

COMING SOON

- More information on barriers to usability, compliance, and enforcement of commercial energy codes
- Advanced code options



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On-line Resource

www.bcap-energy.gov

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Source for:

- Advocacy assistance
- On-the ground state-specific workshops
- Implementation
- Code status & info (website/newsletter)



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