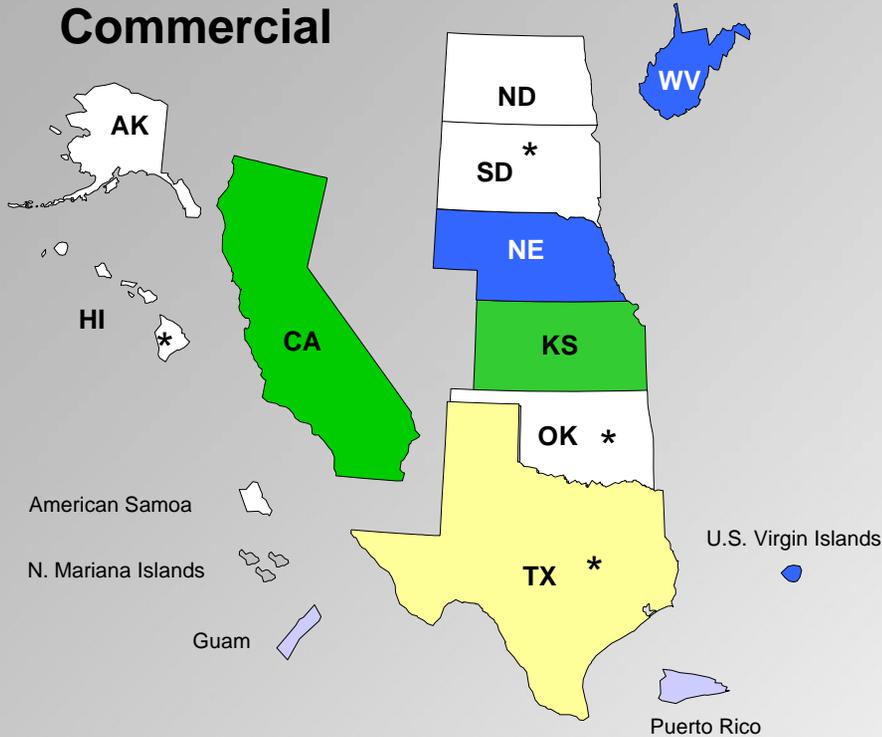




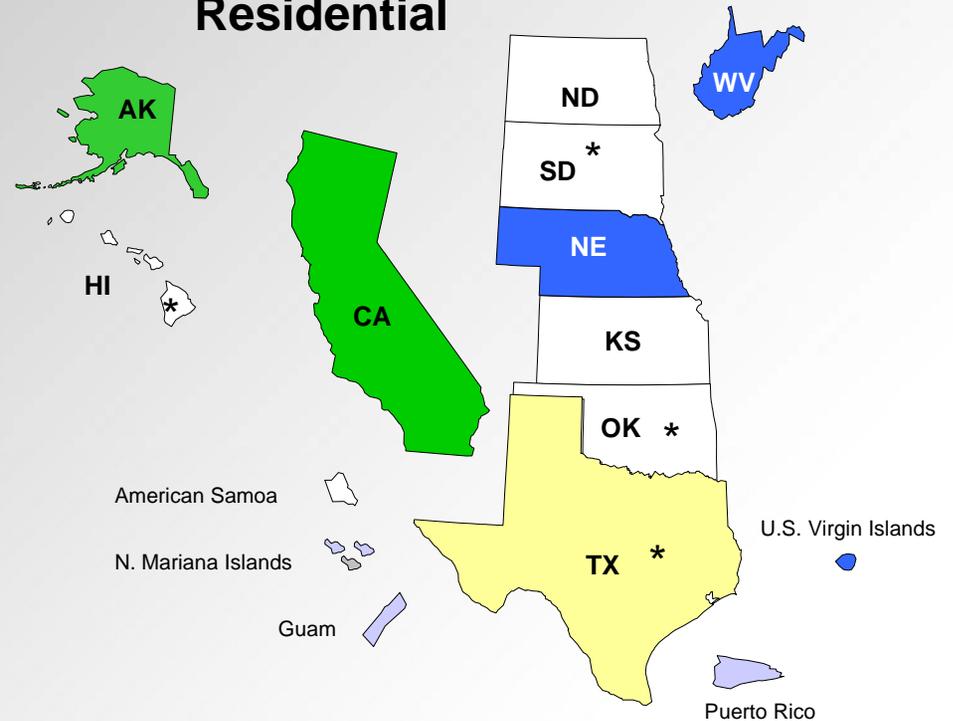
Independent



Commercial



Residential



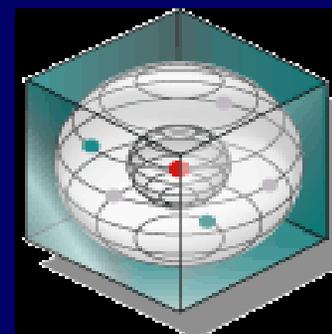
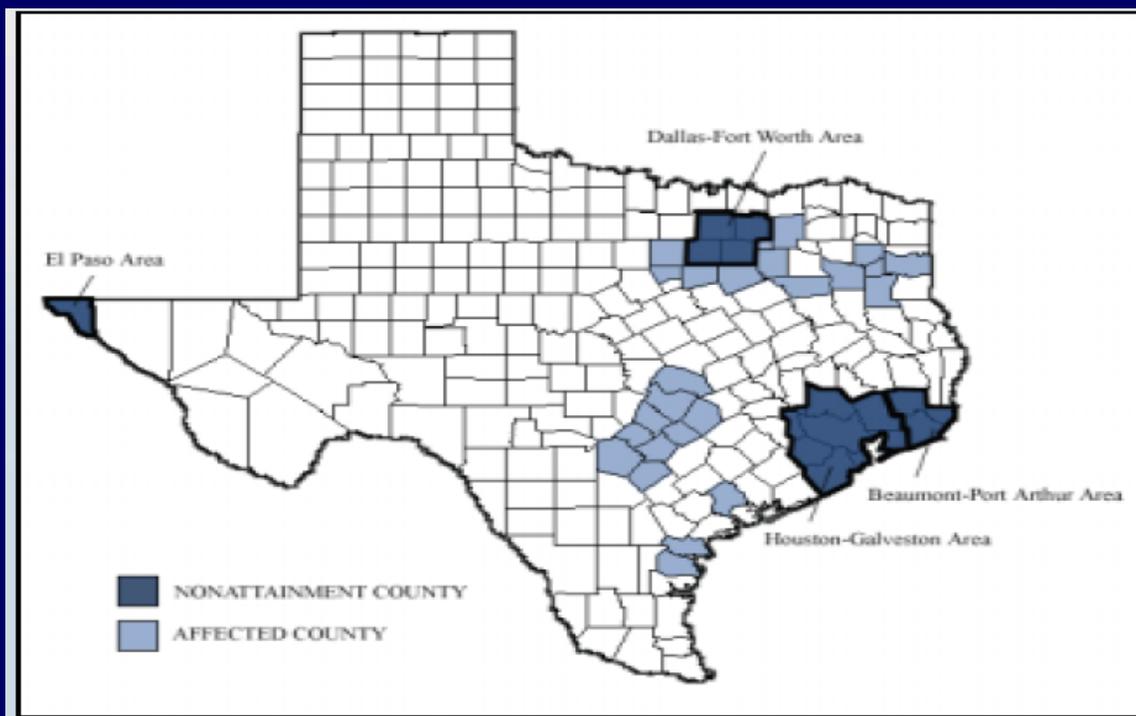
- ASHRAE 90.1-2004/2006 IECC, equivalent or better
- ASHRAE 90.1-2001/2003 IECC or equivalent
- ASHRAE 90.1-1999/2001 IECC or equivalent
- ASHRAE 90.1-1989/2000 IECC or equivalent
- Older or less stringent than ASHRAE 90.1-1989/2000 IECC
- No statewide code
- * Adoption by county/jurisdiction above state mandated minimum

- IECC 2006, equivalent or better
- IECC 2003 or equivalent
- IECC 2001-1998 or equivalent
- Older or less stringent than IECC 1998
- No Statewide Code
- * Adoption by county/jurisdiction above state mandated minimum



Texas

The USEPA has designated 41 Counties as having unacceptable ozone levels in excess of the National Ambient Air Quality Standard (NAAQS) limits.



Adoption of TEXAS' Building Energy Efficiency Performance Standards

- In 2001, the 77th Texas Legislature enacted Senate Bill 5 which among other measures requires the adoption and enforcement of codes as a remedy to air quality issues.
- The Energy efficiency chapter of the IRC 2001 and IECC 2001, were adopted as the energy code in Texas for single-family residential and commercial construction.
- State Law prohibits local amendments from resulting in less stringent requirements in non-attainment areas and in affected counties.
- The Energy Systems Laboratory, by legislative mandate determines the relative impact of proposed local amendments.

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.

Texas

Technology Transfer

To accelerate the transfer of technology developed as part of the Senate Bill 5 program, the Laboratory:

- Conducts training workshops for counties and communities throughout Texas
- Reviews local amendments for Texas cities to ensure stringency is maintained
- Provides guidance and technical support to local jurisdictions throughout the state on a daily basis

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Texas

Training

- ESL develops and administers a state-wide training program sponsored by the State Energy Conservation Office (SECO) with funds from the US Department of Energy (USD OE). The workshops cover:
 - Residential Energy Code Training
 - Commercial Energy Code Training
 - ASHRAE 90.1 Training
 - Compliance Software Training

The bottom of the slide features a close-up, slightly blurred image of the American flag, showing the stars and stripes. The word "Texas" is overlaid in white text on the right side of the flag.

Texas

Other ESL activities...

- Above-Code Compliance Software Training (IC3).
- ESL has been determining the impact of the Energy Codes for the state of Texas.
- The Laboratory has been selected as the National Center of Excellence on Displaced Emission Reductions (CEDER) by the U.S.E.P.A.
- The Laboratory, along with the environmental agency of the state hosts the annual Clean Air Through Energy Efficiency conference (CATEE).

*JOIN US FOR THIS YEAR'S CATEE
CONFERENCE -DALLAS, DEC.6-17, 2008!*

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Texas



Hawaii

The Life of the Land is Perpetuated in Righteousness

We lead the nation in adapting codes to tropical conditions. For instance, conventional insulation does not work well in the tropics. We substitute reflectivity and venting. We include a “non-conditioned” option for homes and buildings. Dehumidification is a very important option.

Success Story

- We helped create “the Guam Code,” which emphasized reflective surfaces and reduced the ASHRAE code from 69 to 21 pages. We created the “Hawaii roof option” which presents 5 paths to achieving R-19 or equivalent, including radiant barriers and PV-powered roof fans.

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Hawaii

Energy Code Compliance

- “We’re known for.....” Achieving compliance despite being one of the last Home Rule (county-specific) states.
- “We struggle with.....” One county that hasn’t moved forward since 1989.

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Hawaii



Commonwealth of the Northern Mariana Islands

“You develop it (Hawaii – Draft Tropical Model Energy Code), we’ll (CNMI) adopt it; ‘someone’ (CNMI Department of Public Works) will enforce it.”



Success Story

- The CNMI is currently in the development process to implement the Draft Tropical Model Energy Code under Hawaii's Department of Business Economic Development & Tourism (DBEDT) grant.
- “Thank you Hawaii DBEDT for including the Tropical Islands as partners.”



Energy Code Compliance

- “As we are in the process of adopting the Draft Tropical Model Energy Code and definitely will have challenges”





Nebraska

Equality Before the Law

The Nebraska Energy Code is updated at the legislative level with the Energy Office designated as the enforcement agency. This requires the NEO to coordinate enforcement activities among the state's 60+ local code jurisdictions.



Success Story

- In 2004 Nebraska updated its Energy Code statute for the first time in 20 years
- The NEO has trained nearly 1200 members of the state's construction industry on the requirements of the updated Nebraska Energy Code

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Nebraska

Energy Code Compliance

- “We’re known for increasing the number of the state’s ICC Certified Energy Code Officials from 1 to 44.
- “We struggle most with mechanical installers over “appropriately sized” HVAC equipment and ductwork sealing – “Is there a “safety factor” that considers *Global Warming* for sizing calculations?”

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Nebraska

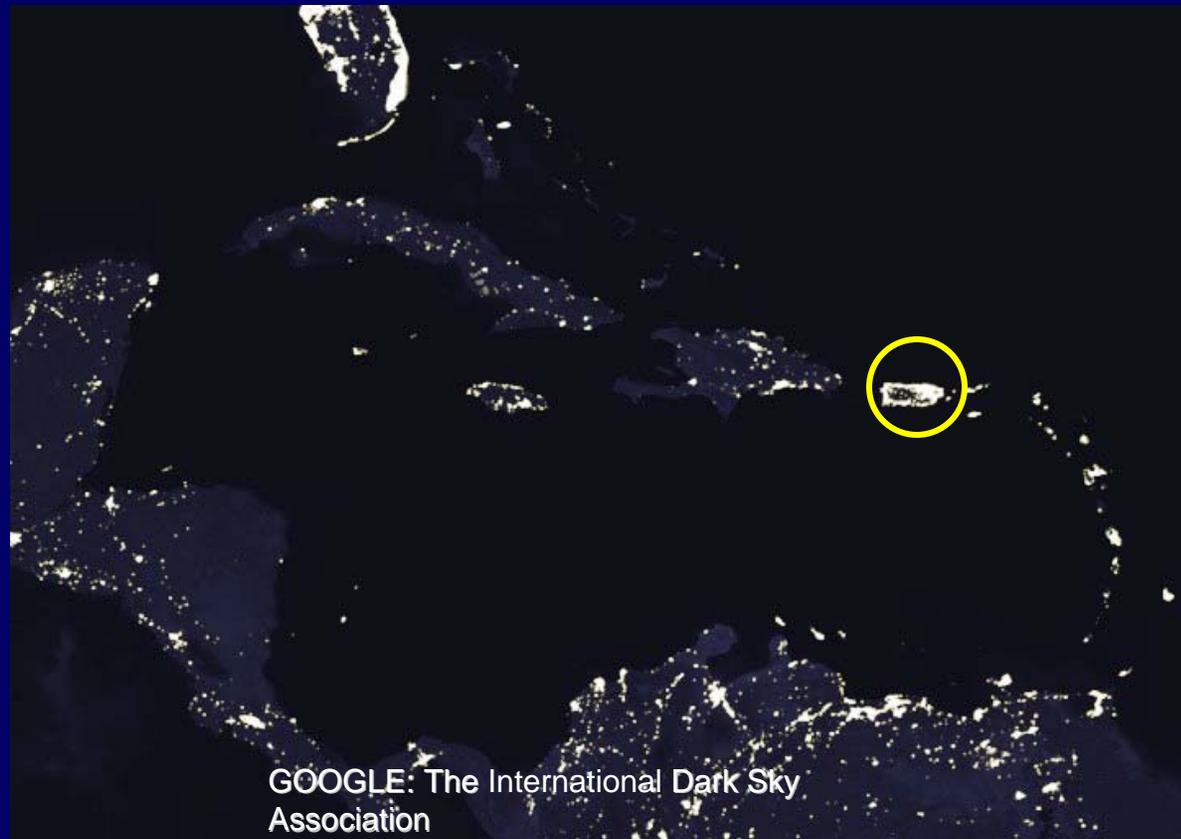


Puerto Rico

Isla del Encanto
(Island of Enchantment)



Puerto Rico



The Shining Star of the Caribbean
(Literary)

Major Issues

- Applicability for Low-Income Housing
- Residential Cooling Calculation Procedure
- Ban on Single Dwelling Electric Water Heaters
- Presence of Two Climate Zones (1 and 2)
- Lack of Preparedness by Fenestration Manufacturers
- Need for Air Tightness Requirements

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Puerto Rico

Success Story

- Action Plan in Place for Code Adoption
 - Public Hearings Scheduled for October 2008
 - Code Adoption Scheduled for December 2008
- Preliminary Code Determinations
 - Residential - IECC 2006
 - Light Commercial - IECC 2006
 - Commercial - ASHRAE 90.1 - 2004



Puerto Rico



North Dakota

Liberty and Union Now and Forever, One and Inseparable

The state has adopted the MEC 93, however it is left up to to the local jurisdictions to adopt the energy code- apparently none have chosen to do so. Those who have do not enforce it.

- “Code, what code?”



The Governor's Energy Policy Commission will recommend that the energy code be updated during the next legislative session

A close-up, slightly blurred image of the American flag, showing the stars and stripes. The stars are on the left, and the stripes are on the right.

North Dakota

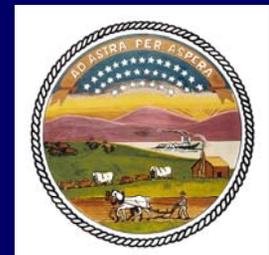


Kansas

Ad Astra per Aspera

(To the Stars with Difficulty)

- Kansas hosted the FIRST national Energy Codes Conference
- Kansas is a home rule state
- Kansas has mandatory commercial energy codes
- Kansas was the first state to adopt the 2006 IECC (*spring 2006*)
- Kansas has a “voluntary” thermal disclosure form for residential buildings



Success Story

- Starting with strong opposition from the Kansas home building industry to adopt any energy related codes or standards a few years ago, the signing ceremony of the adoption of the 2006 IECC included representatives of the state home building industries in 2006

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Kansas

Energy Code Compliance

- “We’re known for our early leadership in the National DOE Codes & Standards Program, providing training and education to local officials.”
- “We still struggle with the barrier of home rule attitude among the Legislature and home builders industry.”

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Kansas



Virgin Islands