
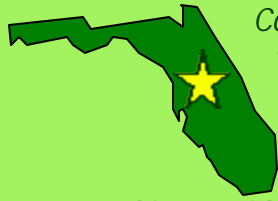


Doug Fish, Executive Director  
 Mike DeWein, Technical Director  
 Cosimina Panetti, Technical Associate  
 Vicki Grieve, Communications Associate

Joint effort of ASE, NRDC, and ACEEE to assist states in adoption of building energy codes




*HERS and Energy Codes: a Marriage that can Work!*



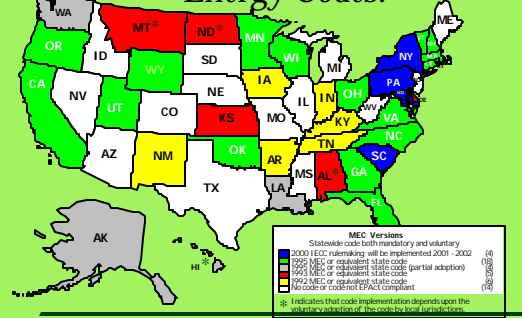

**Taking Residential Energy Efficiency into the 21<sup>st</sup> Century  
 Cocoa Beach, FL**



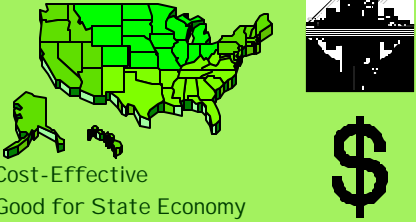
*BEFORE...*


*The Good News about Energy Codes:*

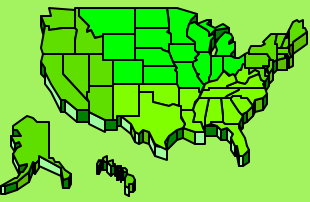
*Why?*



- Cost-Effective
- Good for State Economy
- Provide the Baseline/ Lift the "Bottom Dwellers"
- National Energy Policy Act of 1992



*More Good News: DOE/SEP, other Funding*



States received grants to do outreach activities of around \$4.1M/yr.  
 Industry Likes Energy Codes!



## Energy Codes The POTENTIAL



**Most Important: The chance to impact ALL buildings/builders**

Impact the Mainstream

Voluntary programs - 2%

Energy Codes - @ 18% and potential for more, quicker!

Impact 90,000 Code Officials, @2M design professionals, Who Knows # Builders!



## Energy Codes The POTENTIAL



Level playing field

Impacts all - big potential for benefits

Regulation creates concern

Fear motivates learning and changes behavior



## The Not-So-Good News:

- Implementation/enforcement can be spotty; low quality control
- Low \$ for Code infrastructure, implementation
- Low attention to actual Building Performance
- Wimpy
- Slow to be updated/can stand in way of technology



## Opportunity for HERS as a compliance Mechanism



- HERS as the code compliance mechanism which can get around the barriers!



## Opportunities for HERS/Codes:



- Add the Market Incentives
- Increase Innovation and Accuracy
- Enhance Enforcement
- Can provide necessary infrastructure



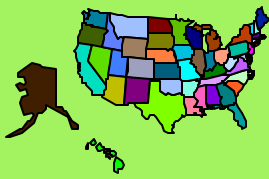
## Opportunities for HERS/Codes:



- Integration with Code Implementation a GREAT way to "get in the door"
- HERS professionals better suited for energy-related quality assurance?
- Provide opportunities for market pull beyond baseline



## Opportunity for HERS/Codes:



- HERS tools easily adapted to code compliance
- DOE/PNNL acknowledges HERS tools for MEC compliance



## Advantages for Builders:



- Assures more uniform enforcement
- Take advantage of Marketing opportunities
- Reduce callbacks
- Design Flexibility



## Energy Codes: How does the code world benefit?



### Better building energy codes!

Better **builder buy-in!** (MN, IN, VT examples)

Learn the **whole message** about buildings

Offer **new and potentially more effective** implementation mechanisms!!! (examples IN, VT, DE, OH, Ft. Collins, NV, AK, etc.)

Many states going to third party compliance mechanisms



## California

- California adopts own code, Title 24
- Has had a Performance Compliance approach for years
- Undergoing MAJOR code upgrades, implementation!
- Codes prominent in HERS survival, development



## Example: Vermont



- ⌘ First generation utility programs at best 20 - 25% participation
- ⌘ Picked up co-sponsorship of workshops and conferences
- ⌘ Offer code compliance support to builders
- ⌘ Reaching over 50% of market for new connects



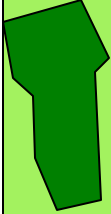
## Example: Vermont



- ⌘ Prior builder conferences 50 - 75
- ⌘ First year attendance over 200
- ⌘ Second year was down to 100+, but significant conflicts
- ⌘ By partnering with VT Star, \$50,000 cost code project \$7,000



### Example: ERH Vermont



- ⌘ Skeptical of code initially
- ⌘ Picked up co-sponsorship of workshops and conferences
- ⌘ Rating can be used to demonstrate compliance
- ⌘ Offer code compliance support to builders
- ⌘ Integral part of VT Star Homes program
- ⌘ Performed over 100 ratings related to code compliance last year



### State Example: Florida



- HERS and Code inextricably linked!
- HERS is integral Compliance methodology
- En Gauge software development



### State Example: Alaska



- Over 80% Market Penetration
- In 2 years went from 2% to 74% of new homes complying with MEC
- Over 30% at 5-Star Level



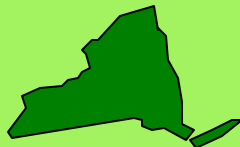
### State Example: Austin, Texas



- Also: Texas has over 200 Municipalities that have adopted MEC
- Texas officials looking to combination of HERS & traditional methods



### New York

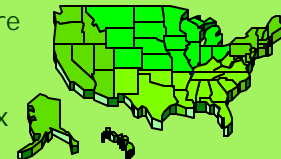



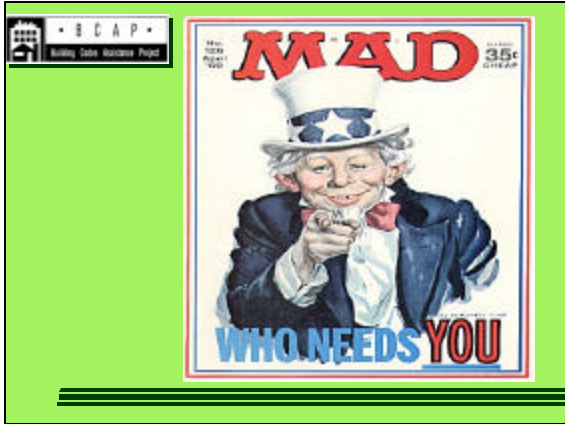
- Adopting upgraded Energy code to 2001 IECC +
- Language to support HERS Compliance methodology
- Energy Star New Construction program rollout with HERS QC



### Many states looking at HERS/Codes

- Adopting upgraded Energy code to 2001 IECC +
- Looking for new, more effective ways to implement
- Support for new Tax Incentives !!!





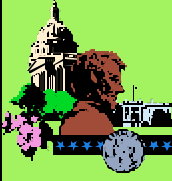
### Why Bother?

**Because buildings AND the construction infrastructure work as a system**

Can't ignore the codes infrastructure as part of the system

Tremendous opportunity with integration of HERS to change it for the better

Opportunity for all to impact all buildings!!



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