



FLORIDA SOLAR ENERGY CENTER™

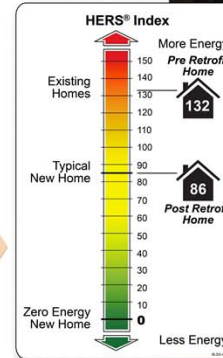
A Research Institute of the University of Central Florida

The Retrofit Challenge for Florida Affordable Housing Providers

Leveraging Federally-Funded Research for Regional Benefit

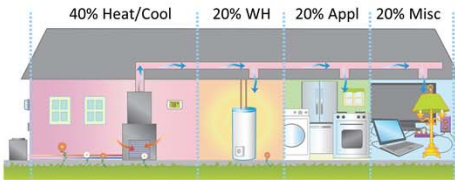


Typical HERS Index Scores

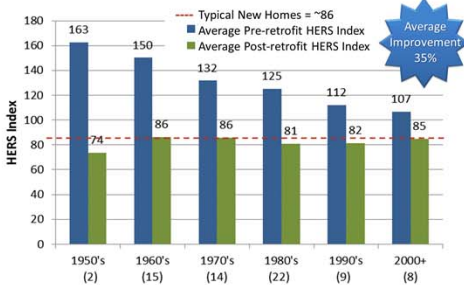


Real World Science. Real World Best Practices.

What Makes the Meter Spin?



Yesterday's Homes with Today's Efficiency



Reference Publications online at www.ba-pirc.org/pubs/

McIlvaine, J.; Sutherland, K.; Beal, D. Applying Best Practices to Florida Local Government Retrofit Programs. Peer review pending, anticipated December 2013.

McIlvaine, J.; Sutherland, K.; Beal, D. 2013. Current Best Practices for High Performance, Deep Energy Retrofits in Florida Affordable Housing. FSEC-RR-444-13. Cocoa, Florida.

McIlvaine, J.; Sutherland, K.; Martin, E. (2013). Energy Retrofit Field Study and Best Practices in a Hot-Humid Climate. Cocoa, FSEC-RR-404-13.

Affordable, Practical, "Off The Shelf" Best Practices

Low- and No-Cost Measures & Quality Assurance

- ☐ Easy-to-do measures for most houses

Health, Safety, and Durability Measures (Risk Reduction)

- ☐ Combustion safety
- ☐ Whole house pressure balance

Moderately higher performance replacements

- ☐ Heating & cooling system (SEER 15 heat pump)
- ☐ Windows (low-E)
- ☐ Water heating (EF 0.92)
- ☐ Energy Star lighting, appliances, and ceiling fans
- ☐ Light or white exterior finishes
- ☐ Meet new construction code for heating and cooling

Efficiency Enhancements

- ☐ Substantially leak free duct system
- ☐ R-38 attic insulation
- ☐ Window film
- ☐ Air sealing at plumbing and fixtures openings



● Seeking Partners

● Field Study Partners

Become a Retrofit Challenge Partner

Take the Retrofit Challenge Pledge; Adopt the Best Practices

U.S. DOE Sponsored Technical Assistance
FSEC Building America Researchers

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