

During the Sub-Committee discussion of RED1-28, Philip Fairey of FSEC provided context and information on the CO2e Index (CRI) from the presentation below.

Net Zero Carbon

ASHRAE 90.2 Committee

February 6, 2023

P. Fairey



UCF

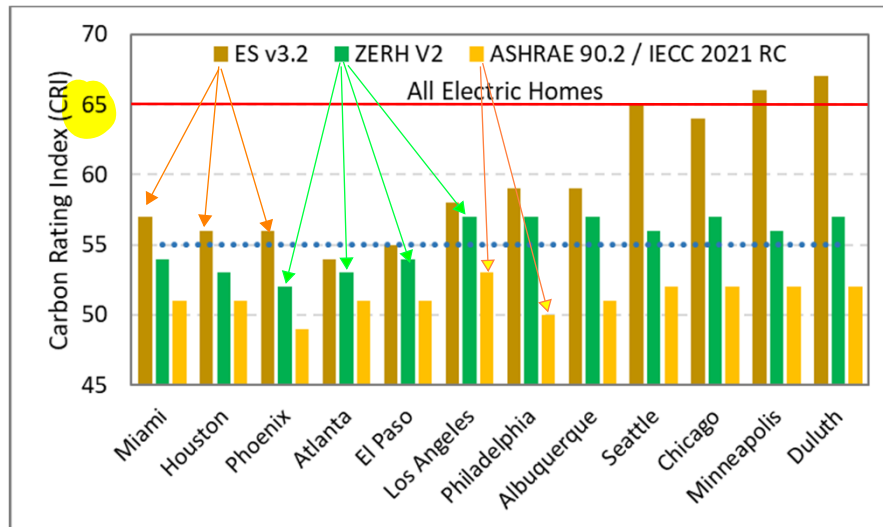
**FSEC Energy
Research Center**

UNIVERSITY OF CENTRAL FLORIDA

Sub-Committee was concerned that a maximum CO₂e Index of 55 was too low for the Appendix and preferred to start with something more reasonable. 65 is shown below, in the context of the CRI's achieved by all-electric above-code homes.

Carbon Rating Index Evaluation

All electric homes that meet the requirements of ASHRAE 90.2 all fall below the proposed CRI maximum qualifying threshold of 55.



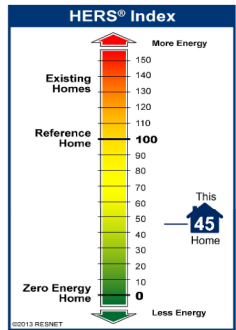
Sub-Committee expressed some concerns and questions about information provided on the label / certificate and whether it will cause confusion for homeowners.

Regardless of whether the rating is used for code compliance or not, all homeowners receive a certificate similar to below when an energy rating is performed on their home in accordance with ANSI/RESNET/ICC 301, which lists ERI, CO2e Index, address, projected CO2e emissions, projected annual site energy, and projected annual energy costs.

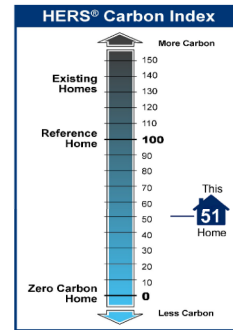
ASHRAE 90.2 Home: Atlanta

HERS RATING CERTIFICATE | RESNET Registration No. | 123 Any Place, Atlanta, GA 30318
[HOME ENERGY RATING SYSTEM] Nationally recognized system for inspecting and calculating a home's energy performance. The lower the score, the more efficient the home is.

HERS INDEX SCORE | 45 ANNUAL SAVINGS | \$1283 HERS CARBON INDEX SCORE | 51



	This Home	Reference Home	Savings
Annual Energy Cost			
Electricity	\$1164	\$2447	\$1283
Natural Gas	\$0	\$0	\$0
LPG	\$0	\$0	\$0
Fuel Oil	\$0	\$0	\$0
On-Site Power	\$0	\$0	\$0
Annual Energy Use			
Electricity (kWh/y)	9783	20564	10781
Natural Gas therms/y	0	0	0
LPG (gally)	0	0	0
Fuel Oil (gally)	0	0	0
On-Site Power (kWh/y)	0	0	0
Annual Emissions			
CO ₂ (tons/y)	3.23	6.39	3.16
SO ₂ (lb/y)	7.40	15.55	8.15
NO _x (lb/y)	6.11	12.85	6.74



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RC2021-elec_2400sf-2sty_Atlanta
 TMY: GA_ATLANTA_HARTSFIELD_JNTL_AP | Design City: GA, ATLANTA_HARTSFIELD_JNTL_AP

Philip Fairey 9999999 1/1/2016
 Certified Rater I.D. Number Signature Date

The Home Energy Rating Standard Disclosure for this home should be provided. If not or if there are other questions please contact the Quality Assurance Provider.
 Florida Solar Energy Center | 1679 Clearlake Road | Cocoa, Florida 32922-5703 | Phone: (321)638-1492
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