

Program Review

- State/Local Economic Impact
- Codes/Performance Evaluation of New Homes in Arkansas
- HIS (Home Improvement as a System) & HERS
- Builders "TUNE-UP"/Partnerships





(CABO MEC 1992)





Energy Performance Evaluation of New Homes in Arkansas	
 Evaluated: Energy (Thermal)Code compliance (ARKcheck) Infiltration - Air leakage testing with blower door Duct and fireplace leakage by subtraction Heating and cooling sizing analysis (Right-J™) Building practices/products 	



















Performance Evaluation of New Homes in Arkansas

Recommendations for HERS

For Energy Improvement Mortgages:

 If HVAC replacement is determined as "cost effective," <u>require</u> or <u>include</u> load analysis before crediting improved performance in the rating

<u>AND</u>

• Final inspection to include verification of equipment size to load calculation

THE OBVIOUS

- REDUCE LOAD -- PEAK DEMAND
- REDUCE GREENHOUSE IMMISSIONS
- REDUCE EXPORT OF STATE \$\$
- REDUCE UP-FRONT EXPENDITURES FOR BUILDER (or trade-off for higher efficiency in the envelope, lower U-Value or seasonal selected windows, etc.
- REDUCE EXPENDITURE FOR THE OCCUPANTS

Evaluation of New Homes in Arkansas
BUILDER'S "TUNE-UP"
GUIDE
Reviews Survey Results
Offers Alternative (Cost Effective)
Approaches
 Product Selection/applications
 Communication Tips
• HVACR
Ventilation
 Manufacturers/Venders/Suppliers
• Links

Follow-up to the Performance Evaluation of New Homes in Arkansas Recommendations for HVAC contractors: Size cooling and heating systems to meet the load (Manual J). Seal ducts with mastic/mastic tape. Seal and finish the return duct, boots, etc.. Work with builder on whole system, especially the return duct.



Follow-up to the Performance Evaluation of New Homes in Arkansas

Other Results:

- New & Enhanced Partnerships/Alliances
- Technical Colleges & Continued Education Credits

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