

NATIONAL CODE INITIATIVES: Coordination of ARRA activities

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- President's and Secretary's Goals
 - 83% energy use reduction by 2050
- Strategy to meet Goals
 - Must address energy performance of buildings on multiple fronts...
 - New technologies (component RD)
 - Integration RD (“putting the pieces together effectively”)
 - Building energy codes – an important lever
 - New construction & renovations, alterations and additions
 - Increase stringency
 - Increase adoption – states and local jurisdictions
 - Rigorous compliance verification

- Energy Conservation and Production Act
 - DOE will participate, recommend amendments, and seek adoption of upgrades in Model building energy codes
 - Standard 90.1, *Energy Efficient Design of Buildings Except Low Rise Residential Buildings*
 - International Energy Conservation Code (IECC)
 - Make determination whether upgraded model code will improve energy efficiency in commercial or residential buildings, respectively
 - If DOE makes positive determination
 - States review and update the provisions of their commercial codes to meet or exceed Standard 90.1
 - States determine whether it is appropriate to update the provision of their residential codes
 - DOE – provide financial and technical assistance

- American Recovery and Reinvestment Act (Recovery Act): Section 410
 - States have committed to:
 - Implement a residential building code that meets or exceeds the 2009 IECC—or achieves equivalent or greater energy savings;
 - Implement a commercial building energy code that meets or exceeds the ANSI/ASHRAE/ IESNA Standard 90.1-2007, or achieves equivalent or greater energy savings;
 - Implement a plan to achieve 90% compliance with the above energy codes within eight years. This plan will include active training and enforcement programs and annual measurement of the rate of compliance.

- Energy Independence and Security Act of 2007 (EISA)
 - Section 413
 - DOE will establish standards for energy efficiency in manufactured housing by December 2011
 - Consult with (HUD),
 - Seek further counsel from the Manufactured Housing Consensus Committee (MHCC),
 - Stakeholders and interested parties
 - Based on 2009 IECC
 - Consider impact on the purchase price of manufactured housing
 - Consider total life-cycle construction and operating costs.
 - Consider the design and factory construction techniques of manufactured housing,
 - Consider the climate zones established by HUD
 - Provide for alternative practices that result in \leq net estimated energy consumption
 - Except
 - » Where DOE finds IECC is not cost effective, or
 - » A more stringent standard would be more cost effective, consider the design

National Code Initiatives

- Divided into four key areas:
 1. General Support Activities
 2. Upgrade Activities
 3. Adoption Activities
 4. Compliance Activities
- \$18M in ARRA funds going to competitive solicitations, grants, and technical assistance help to the States

1. Roadmapping National Activities to Help States Meet Intent of Section 410 of the Recovery Act
2. Establish Common Communication and Organization
3. Train OWIP Recovery Act Monitors on Codes
4. Support State Code Officials Compliance with Recovery Act
5. Support AE Firms for Commercial Code Training

1. Continue to advocate for 30%+ Increase in ICC IECC and ASHRAE Standard 90.1
2. Issue Determinations
3. Issue Energy Standards for Manufactured Housing
4. Develop a “Standard for Code Comparison” with ASTM
5. Initiate 50% Improvements and Evaluation of Renewables Integration
6. Develop New 30 and 50% Guidelines with ICC and ASHRAE (written as code language)
7. Convert Existing ASHRAE Design Guides Into Code Language
8. Pilot a Code Comparison Website
Providing first order estimates on proposed code changes/impacts

- Support Wide Scale Adoption of Code Guides
- Provide Education and Training Workshops to the States (to lower cost/burden of adoption)
- Work with states to develop Code Compliancy Plans and National Model Code Compliancy Plans

- Training on Model Codes
- Annual Energy Codes Training
- Provide Code Books as Training Materials
- Grants for Technical Assistance
- Pilot for Commercial Code Field Inspection
- Grants for Development of Code Compliancy and Analysis Tools
- 90% Code Compliance Tools and Materials