

BUILDING ENERGY CODES

Background

Model building energy codes are developed by private organizations (e.g. the International Codes Council (ICC) and the American Society of Heating, Refrigerating and Air-Conditioning Engineers), updated every three years and then adopted by state and local governments. While the federal government does not "adopt" codes, the Department of Energy (DOE) plays a significant role in their development, and also works with states to encourage adoption and enforcement.

DOE's role in code development has expanded, moving beyond the original authorization of a "technical advisor" to pushing energy goals, and at times advocating for certain products or technologies.

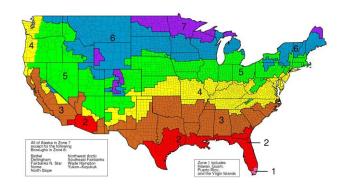
Recent Building Energy Codes

Earlier versions of these model codes were far more cost-effective. Over time, they have become overly burdensome - expensive, inflexible, and very prescriptive.

The 2012 International Energy Conservation Code (IECC) saw a drastic increase in cost, compared to the 2009 IECC, without saving the home owner in reduced utility bills. The chart below shows average utility savings, compared to increases in construction costs. These payback periods are unreasonable. NAHB polling indicates that some home owners are willing to invest in energy efficiency, but require a payback period of 5-7 years. Some are pushing for paybacks that extend over the life of a building!

Table 8: 2012 IECC Cost Effectiveness Relative to 2009 IECC

Climate Zone	Annual Energy Savings	Incremental Construction Cost	Simple Payback (yrs)
1	\$206	\$3,224	15.7
2	\$294	\$3,330	11.3
3	\$470	\$7,203	15.3
4	\$410	\$7,091	17.3
5	\$505	\$4,653	9.2
6	\$397	\$6,399	16.1
7	\$609	\$6,465	10.6
8	\$725	\$6,465	8.9
National Weighted Average	\$427	\$5,668	13.3



Energy Codes Are Government Mandates:

- Many claim that energy codes are "voluntary." They are not. These codes are REQUIRED for EVERY home in a jurisdiction, including housing for low-income families and first-time home buyers.
- While the federal government does not adopt codes, DOE has used federal funding to "incentivize" states to adopt the latest codes. These then become mandates in the states.

Recent Energy Codes Are Not Cost-Effective:

- Earlier versions of the energy codes were far more cost-effective. By using energy-efficient windows or lighting, consumers saw a big "bang for their buck." But now, the code includes very costly requirements that do not have the same return on investment.
- An average home built to the 2012 energy code, compared to the 2009 energy code, would add thousands of dollars in construction costs, and most home owners will never recoup that investment in utility savings - it could take up to 17.3 years.
- By driving up costs in the energy code, lower-income families will be forced into existing housing stock, which tends to use far more energy than newly constructed housing.

Energy Codes Should Be Product/Technology Neutral

- Some manufacturers have realized that by mandating their product in the code, they can
 gain market advantage. For example, wall constructions favor foam sheathing over
 other products in certain climate zones. Any code should be technology and product
 neutral and should not pick winners and losers.
- NAHB has sought DOE support for energy-neutral tradeoffs that give builders more flexibility to meet home owners' needs, while also reaching the energy goals. Unfortunately, DOE did not support these proposals.

The Role of the Federal Government

- DOE should return to its congressionally authorized role as a "technical advisor" and not push certain energy goals, or any particular products/technologies.
- In the past, DOE has provided states funding to adopt the latest code. NAHB believes federal funds should not be used for this purpose; rather, DOE should help states implement whatever requirements the state chooses, including training code officials and aiding compliance/enforcement efforts.

Take Action

Congress - Representatives Marsha Blackburn (R-TN) and Kurt Schrader (D-OR) introduced legislation (H.R. 1273) in March that would prohibit DOE from "advocating" and would require any code or proposal supported by DOE to have a 10-year payback. NAHB urges Congress to pass this legislation to improve the code process and ensure a fair, technology-neutral and cost-effective code.

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