

## National Builders Challenge

Setting the direction for a voluntary national energy-saving initiative



Concept Paper for Discussion

## **Objective**

Help builders spur strong demand for highly efficient homes, marching towards cost-neutral zero energy homes

Enable homeowners to have low, predictable utility bills

#### Goal

- 100,000 (?) new homes built between now and 2009 combining:
  - State-of-the-art energy performance
  - Building America's comfort and safety criteria

## **Strategy**

- Galvanize U.S. homebuilders to voluntarily join the Challenge
- Create value/demand by educating U.S. home buyers to help them make informed decisions about efficiency and distributed energy

## Imperative for highly efficient homes

31% of housing stock that will exist in 2030 hasn't been built yet

In 2030	Residential Sector	30% Reduction in Energy Growth in new homes	Savings
Energy costs	\$252 billion	\$ 238 billion	\$14 billion
Million metric tons carbon dioxide equivalent	1,576	1,478	98

Source: Annual Energy Outlook 2006, Feb 2006, Energy Information Administration, Department of Energy

# The technologies exist *now* to build cost competitive homes that are 30% or more above code – *and* more comfortable and healthy

Today's homes may combine efficiency:

- Whole-building system design
- Demand response systems
- ENERGY STAR building products

Plus renewables such as photovoltaic systems

## But huge marketplace barriers still exist

## Building industry lacks:

- Objective way to help consumers differentiate among:
  - Homes that just meet code
  - Energy-efficient homes
  - Super-efficient homes
- Rationale/value for going beyond minimum compliance in efficiency programs

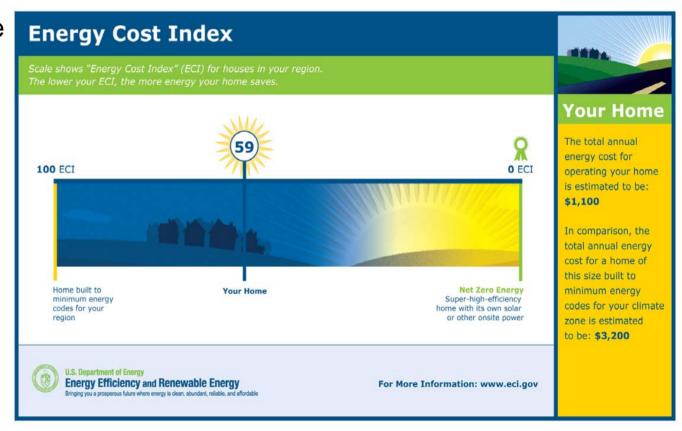
## National Builders Challenge is designed to help overcome these barriers

#### **Five elements:**

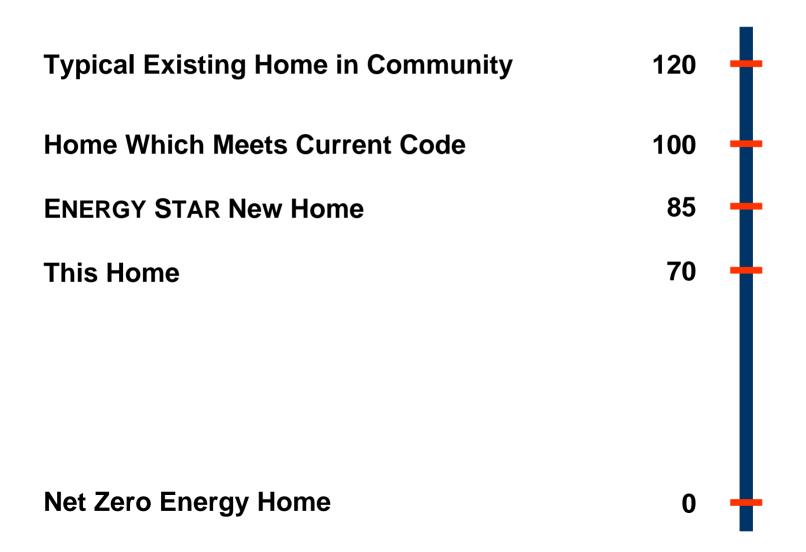
- Energy scale
- National marketing and outreach campaign
- Builder education
- Design challenge
- Baldrige-type award for builders

## Element 1: Energy Scale (Illustrative)

- Clear, objective information on home energy costs
- Driving informed consumer demand, and continuous improvement toward zero energy



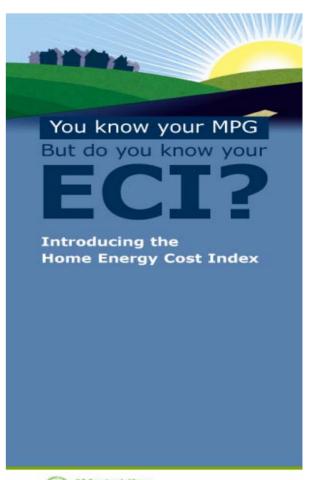
#### The Path to Net Zero Energy Homes



## Element 2: Outreach and Marketing

Will work with stakeholders (Energy Efficiency Partners, State Energy Offices, utilities, associations) on:

- National campaign to build consumer awareness and demand
- Regional campaigns to highlight success stories by climate zone





#### **Element 3: Builder Education**

Will work with industry stakeholders (Energy and Environmental Building Association, colleges, universities, the National Association of State Universities and Land-Grant Colleges, and others) to design and deliver educational materials serving needs of:

- Production builders
- Custom builders
- Trades

## **Element 4: Design Competition**

High-visibility competition for "best of the best"

- Homes built and currently in the market
- Efficient + affordable + durable + healthy + aesthetically pleasing
- Opportunity to highlight builders and designers for path breaking/risk-taking accomplishments

Considering awards in multiple categories

- Production market
- Custom market

#### **Element 5: Builders Award**

Prestigious award modeled on U.S. Department of Commerce Baldrige Award

- Secretarial level, highly coveted national award
- Recognizing builders making fundamental companywide changes in their home building and marketing practices
- One awardee for production, one for custom, one for trades
- Focus as much on how they did it as what they did
- "Best practices" shared (website, case studies)

## Market success will require consistent promotion by a network of stakeholders

- Builders
- Utilities, Energy Efficiency Program Sponsors
- Consumer organizations
- Raters and trades
- Realtors and others

### A work in progress ...

- Work just begun on defining scale, outreach plan, other elements
- We need your guidance to make this consumer friendly and a useful tool for builders' marketing efforts

