

# North Carolina



## North Carolina Organizations and Consumers are Saving Money and Protecting the Environment with ENERGY STAR®

### Benefits

- North Carolina businesses and residents will save more than \$2.5 billion through investments already made in ENERGY STAR qualified products, homes, and buildings.
- The investments in North Carolina already made through ENERGY STAR will prevent the emissions of 12 million metric tons of greenhouse gases, equivalent to eliminating the emissions from 8 million vehicles.
- If North Carolina organizations and consumers pursued all opportunities for profitable energy efficiency improvements through ENERGY STAR, current savings could grow 5-fold.

### Highlights

- North Carolina is home to more than 320 companies and public entities participating in ENERGY STAR, about 10% of which are small businesses. Others include:
  - A national retailer
  - 2 local governments and 7 school districts
  - 16 manufacturers of ENERGY STAR qualified products
  - More than 200 companies that build, provide 3rd-party testing of, or promote ENERGY STAR qualified homes
- Consumers can purchase ENERGY STAR qualified products at some 580 locations across the state.
- About 4,200 North Carolina homes have earned the ENERGY STAR and offer families greater savings and comfort than those built to code.
- Some 1,100 buildings (over 110 million square feet) in North Carolina have been rated for energy efficiency using EPA's energy performance rating system.
- More than 300 buildings have earned the ENERGY STAR for superior efficiency, including 9 schools, 290 supermarkets, and 5 office buildings.
- North Carolina is leading the way in energy efficiency by participating in the ENERGY STAR Challenge to improve the efficiency of its buildings by 10% or more. As part of this effort, North Carolina plans to promote improved energy performance with ENERGY STAR management tools to government and educational facilities and develop a cable TV interview program to raise awareness of ENERGY STAR.
- In 2005, the Governor issued Executive Order 156 requiring the state to purchase ENERGY STAR qualified office equipment.
- The University of North Carolina at Chapel Hill was awarded the 2003 ENERGY STAR Combined Heat and Power (CHP) Award for its 28 MW CHP system that operates at 78% efficiency and uses 13% less fuel than traditional electrical and thermal power generation.
- Duke Energy encourages the purchase of ENERGY STAR qualified homes by offering a special 5% utility rate discount to customers living in these efficient homes.
- Pitt County will save about \$10,000 per year in energy costs through the ENERGY STAR PC power management software that automatically shuts down desktop computers when not in use.
- Food Lion, LLC and Nash-Rocky Mount School District have been recognized by EPA as ENERGY STAR Leaders for achieving significant improvements in energy efficiency across all their facilities.

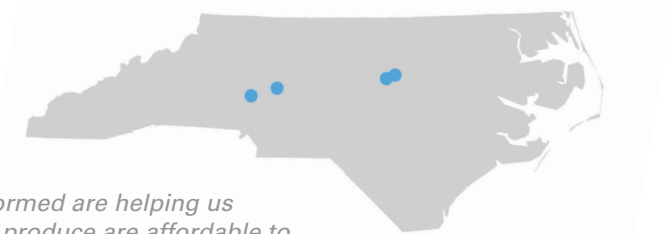
## Examples of ENERGY STAR Partners Protecting the Environment

### Food Lion, LLC

*"At Food Lion, we believe a company can help protect the environment and meet its business objectives. Food Lion is demonstrating a long-term commitment to the environment and to its bottom line, which benefits the environment, our customers, the company and its investors. Our company goal is to be a world-class leader in energy management in the supermarket industry."*

- Kyle Mitchell, Vice President

- Has been an ENERGY STAR partner since 1998.
- Since 2000, has trimmed energy use by more than 25% (2.4 trillion Btu), equivalent to powering 457 virtual Food Lion stores.
- About 300 stores in North Carolina have earned the ENERGY STAR, more than half of Food Lion's stores in the state.
- More than 700 Food Lion stores nationwide have earned the ENERGY STAR.



### Advanced Energy

*"The partnerships we've formed are helping us ensure that the houses we produce are affordable to purchase and live in, which is important when building for low-income families. These homes are also comfortable, safer, more durable, and environmentally responsible. We are working to see that energy-efficient practices become more commonly used by builders and developers nationwide."*

- Brian Coble, Director of Affordable Housing Programs

- Works with more than 50 nonprofit developers to produce ENERGY STAR qualified homes.
- Has tested and qualified 1,260 affordable homes as ENERGY STAR since 2001.
- Achieved a nearly 15% total energy savings for the participating ENERGY STAR homes over standard construction practices.

### Recent ENERGY STAR Partner of the Year Winners

- Advanced Energy
- Anderson Homes, Inc.
- Food Lion, LLC
- Lowe's Companies, Inc.
- Nationwide Marketing Group
- Southern Energy Management

For more information on these Partners of the Year, go to [www.energystar.gov](http://www.energystar.gov)

### Key ENERGY STAR Partners Transforming the Residential Market

- 186 companies are building ENERGY STAR qualified homes; 43 of these firms have committed to making 100% of their new homes ENERGY STAR.
- The most active home builders in North Carolina are Lennar Carolinas, Inc., Picerne Military Housing - Fort Bragg, NC, Actus Lend Lease, LLC, Anderson/Vanguard Homes, Inc., Associated Land Development, Inc., Habitat for Humanity of Charlotte, Cimarron Homes, Forsyth County Habitat for Humanity, American Constructors of N.C. Inc., and John Kavanagh Company.
- The most active manufactured home builder is Palm Harbor Homes.
- Advanced Energy Corporation, Southern Energy Management, NSpects Ltd., Progress Energy, Duke Energy, and NC HealthyBuilt Home are actively promoting ENERGY STAR qualified homes.

### Lowe's Companies, Inc.

*"The average household spends approximately \$1,900 annually on energy bills. By using ENERGY STAR qualified products, a family can save as much as 30% or \$600 a year. Last year, with the help of ENERGY STAR products, Lowe's customers saved more than \$90 million in energy costs."*

- Bob Gfeller, Lowe's Senior Vice President of Marketing

- Implemented "Energy Savings Month" in October 2006, encouraging customers to save money and energy through the use of home sealing products, ENERGY STAR qualified fixtures, compact fluorescent light bulbs, and "how-to" clinics.
- Featured ENERGY STAR qualified products and the ENERGY STAR @ home online tool in its direct mail campaign and TV advertising.

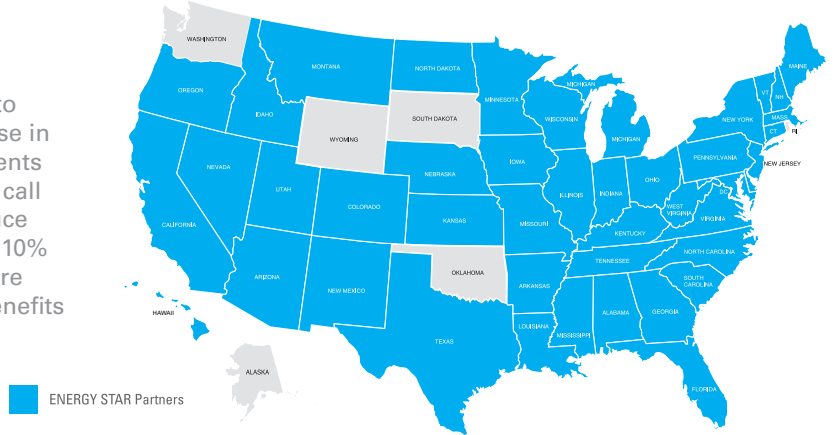
### Innovative Design, Inc.

- The firm's building designs are intended to save over \$90 million and 3.5 trillion Btus.
- First architecture firm to be recognized by EPA for "Excellence in Promoting Superior Performance in Building Design;" received this honor 2 years in a row.
- Maximizes lighting efficiency through daylight designs, especially in K-12 schools.
- Uses ENERGY STAR tools and resources to set goals during the design process and follow through on the performance of the operating building.

# How States are Working with ENERGY STAR

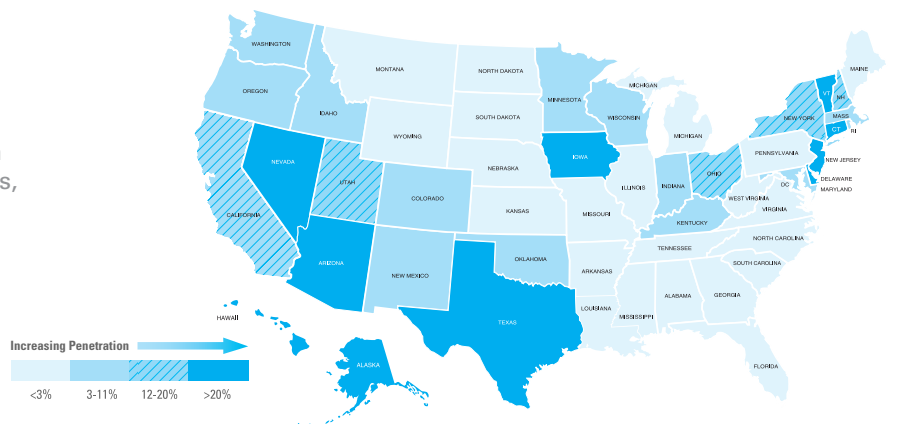
## ENERGY STAR State Partners

More than 40 states are leveraging ENERGY STAR to improve energy efficiency and reduce the energy use in their states. For example, almost 30 state governments are participating in the ENERGY STAR Challenge, a call to action for building owners and operators to reduce energy use across their entire building portfolio by 10% or more. These and other efforts by state partners are helping to bring the financial and environmental benefits of energy efficiency to their states.



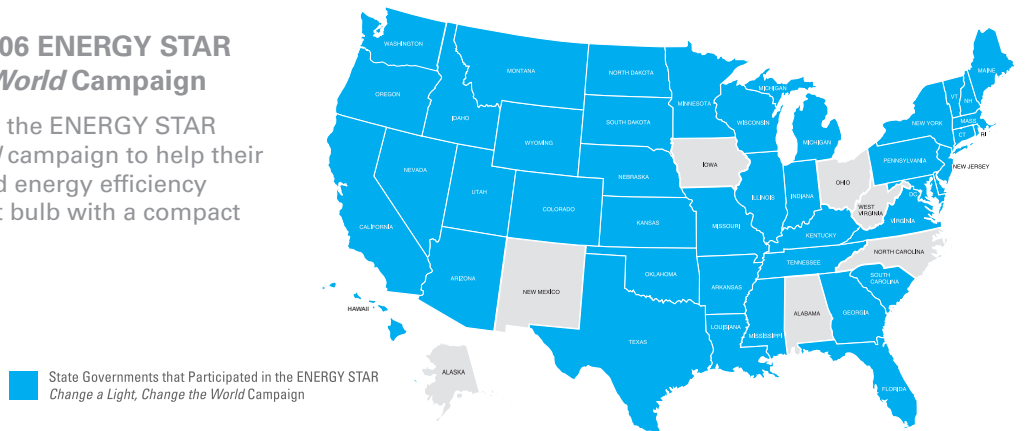
## ENERGY STAR Qualified New Homes Gaining Market Share

More than one in 10 new homes built in the United States earns the ENERGY STAR, but in 10 states and more than 20 metropolitan areas, market penetration is greater than 20%.



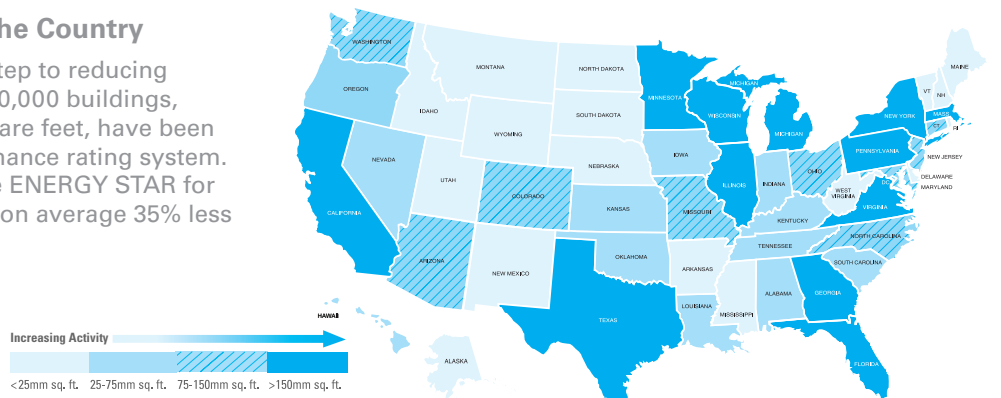
## States Participating in the 2006 ENERGY STAR Change a Light, Change the World Campaign

State governments are promoting the ENERGY STAR *Change a Light, Change the World* campaign to help their residents take the first step toward energy efficiency by replacing an incandescent light bulb with a compact fluorescent light bulb (CFL).



## Benchmarking Activity Across the Country

Benchmarking is an important first step to reducing a building's energy use. More than 30,000 buildings, representing more than 5 billion square feet, have been assessed using EPA's energy performance rating system. Of those, about 10% have earned the ENERGY STAR for superior energy performance, using on average 35% less energy relative to typical buildings.





# ENERGY STAR

Since its inception by the U.S. Environmental Protection Agency (EPA) in 1992, ENERGY STAR has helped individuals and organizations across the country adopt cost-effective, energy-efficient technologies and practices, better manage their energy costs, and help protect our environment. More than 9,000 organizations have partnered with ENERGY STAR to bring energy efficiency to their customers, the public, and themselves; and the results are adding up. Americans have purchased more than 2 billion ENERGY STAR qualified products, and thousands of companies have used EPA's guidelines to manage their energy more strategically. In 2006 alone, Americans, with the help of ENERGY STAR, prevented 37 million metric tons of greenhouse gas emissions—equivalent to eliminating the emissions from 25 million vehicles—and saved about \$14 billion on their utility bills, all while helping to grow the economy.

## ENERGY STAR for Consumers

Whether consumers are looking to replace old appliances, remodel their homes, buy a new house, or get the most from the equipment they have, ENERGY STAR can help. ENERGY STAR is the government-backed symbol for energy efficiency, providing credible and objective information on which consumers can rely to make well-informed decisions. The U.S. Department of Energy (DOE) has partnered with EPA since 1996 to bring ENERGY STAR qualified products to consumers. By choosing ENERGY STAR, consumers can save up to 30% on their energy bills—about \$600 a year—and enjoy the quality, performance, and comfort they expect.

Consumers can find the ENERGY STAR label on over 44,000 individual product models across more than 50 product categories, including appliances, home electronics, office equipment, heating and cooling equipment, lighting, and more. These products use up to 90% less energy compared to standard models. New homes can also earn the ENERGY STAR, and the Home Performance with ENERGY STAR program helps homeowners retrofit their existing homes for improved energy efficiency.

## ENERGY STAR for Businesses and Organizations

Many businesses and organizations can save up to 30% on energy bills through improved energy management practices and building upgrades. EPA offers its ENERGY STAR partners—those organizations that have committed to energy efficiency improvements—a host of tools and guidance, including proven energy management strategies and standardized management tools to help them achieve their goals.

EPA encourages all organizations to assess the energy performance of their buildings, set goals for improvement, and track their progress through its ENERGY STAR Challenge. And EPA offers a national energy performance rating system for buildings (providing building-level energy efficiency scores on a scale from 1 to 100) to help them do this. More than 30,000 buildings have been assessed, thousands of buildings have been improved, and more than 3,200 buildings (and 20 industrial facilities) have earned the ENERGY STAR. The ENERGY STAR buildings offer excellent real-life examples for others, using 35% less energy compared to typical buildings—and about 400 of them use 50% less energy.

*For more information about ENERGY STAR, please visit [www.energystar.gov](http://www.energystar.gov).*