

Virginia



Virginia Organizations and Consumers are Saving Money and Protecting the Environment with ENERGY STAR®

Benefits

- Virginia businesses and residents will save more than \$3 billion through investments already made in ENERGY STAR qualified products, homes, and buildings.
- The investments in Virginia already made through ENERGY STAR will prevent the emissions of more than 13 million metric tons of greenhouse gases, equivalent to eliminating the emissions from 9 million vehicles.
- If Virginia organizations and consumers pursued all opportunities for profitable energy efficiency improvements through ENERGY STAR, current savings could grow 3-fold.

Highlights

- Virginia is home to more than 160 companies and public entities participating in ENERGY STAR, about 10% of which are small businesses. Others include:
 - 7 local governments and 7 school districts
 - 19 manufacturers of ENERGY STAR qualified products
 - 66 companies that build, provide 3rd-party testing of, or promote ENERGY STAR qualified homes
- Consumers can purchase ENERGY STAR qualified products at some 490 locations across the commonwealth.
- About 1,800 Virginia homes have earned the ENERGY STAR and offer families greater savings and comfort than those built to code.
- More than 1,300 buildings (over 160 million square feet) in Virginia have been rated for energy efficiency using EPA's energy performance rating system.
- More than 220 buildings have earned the ENERGY STAR for superior efficiency, including 1 school, 197 supermarkets, 1 hospital, and 26 office buildings. These buildings typically use 35% less energy than average buildings.
- Virginia is bringing energy efficiency to its residents by participating in the ENERGY STAR *Change a Light, Change the World* campaign.
- Executive Order 48, effective in 2007, requires all commonwealth agencies and institutions to purchase or lease ENERGY STAR qualified appliances and equipment.
- The Governor signed legislation to create the ENERGY STAR Sales Tax Holiday to encourage Virginians to purchase ENERGY STAR qualified products at local retailers. From October 5–8, 2007, consumers saved both state and local sales tax on ENERGY STAR qualified products that cost \$2,500 or less.
- The University of Virginia has made a concerted effort to conserve energy in its buildings. About 90% of the campus has been retrofitted with more efficient lighting, which included the installation of 600 motion sensors.
- Virginia recommends designing new public buildings to meet ENERGY STAR performance levels as one of two methods to comply with a new energy efficiency Executive Order.
- In 2007, Arlington County launched Fresh AIRE (Arlington Initiative to Reduce Emissions) with the goal of significantly reducing energy use and greenhouse gas emissions. Arlington County is actively participating in the ENERGY STAR Challenge.

Examples of ENERGY STAR Partners Protecting the Environment

Community Housing Partners Corporation

"Energy efficiency is particularly important in the affordable housing sector. By building homes that earn the ENERGY STAR, we are reducing utility costs and providing homes that are truly affordable to own and operate for low- to moderate-wealth residents."
- Colin Arnold, AIA, CHP's Staff Architect

- A 501(c)(3) community development corporation that creates affordable, sustainable housing for low-income individuals and families in southeast Virginia.
- Ensures that all housing projects incorporate ENERGY STAR qualified appliances and windows.
- Completed construction of 14 new ENERGY STAR qualified, affordable homes for first-time, low- to moderate-income home buyers and upgraded 182 affordable homes to include ENERGY STAR qualified appliances and windows.
- Distributes comprehensive homeowner manuals that include product information, environmental education, and service checklists. Buyers are also required to attend classes that emphasize the energy efficiency features of their new homes.

Recent ENERGY STAR Partner of the Year Award Winners

- Community Housing Partners Corporation
- National Energy Education Development Project

For more information on these Partners of the Year, go to www.energystar.gov



The National Energy Education Development Project (NEED)

- Dedicated to helping teachers and students understand the scientific, economic, and environmental impacts of energy use.
- Promoted ENERGY STAR nationally in conferences, workshops, and teacher training, secured recognition at regional and national science teacher conferences, and published a newsletter that reached 22,000 classrooms in 47 states.
- Brought the 2006 ENERGY STAR *Change a Light, Change the World* campaign to teachers and students across the country.
- Created a guide to help teachers take a leadership role in driving the *Change a Light, Change the World* campaign at the individual, school, community, state, and national levels. The guide included lesson plan activities for home and school, examples of successful school programs, and a sample pledge sheet.

Key ENERGY STAR Partners Transforming the Residential Market

- 55 companies are building ENERGY STAR qualified homes; 9 of these firms have committed to making 100% of their new homes ENERGY STAR.
- The most active home builders in Virginia are Clark Pinnacle Family Communities, Dodson Homes, Inc., and Bozzuto Homes, Inc.
- The most active manufactured home builders are Palm Harbor Homes and Marlette Homes.
- NSpects Ltd., Energy Design Technology, and National HERO are actively promoting ENERGY STAR qualified homes.

Arlington County

"The ENERGY STAR program is a valuable, integral component of Arlington's entire climate action strategy, for both internal operations and outreach to the community as a whole."

- John Morrill, Energy Manager

- One of the first local governments to sign up for the ENERGY STAR Challenge; has been an ENERGY STAR partner since 1998.
- Set a goal to reduce energy use in county buildings by 2% annually.
- Has distributed over 2,000 free ENERGY STAR qualified compact fluorescent light bulbs and provided free energy audits to local businesses and homeowners.
- Offers training to local congregations, small businesses, commercial offices, and Arlington schools on opportunities to reduce energy use through ENERGY STAR.
- Continues to encourage other localities to pursue energy efficiency using ENERGY STAR tools and resources.

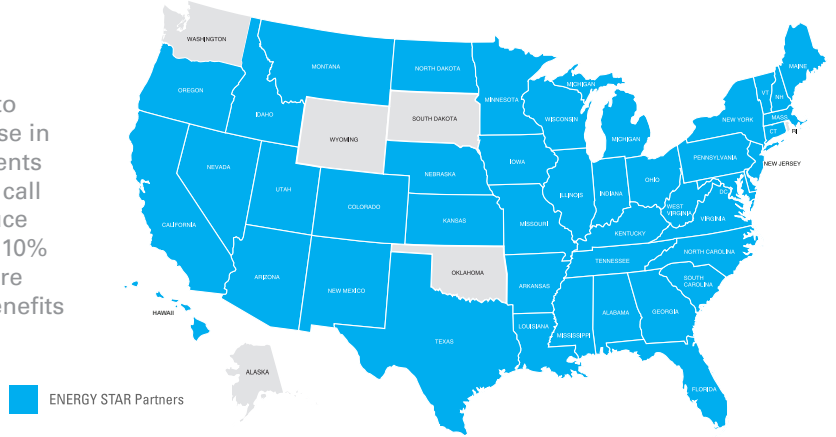
York County School Division

- Saved more than \$200,000 in a single year as a result of investments in energy efficiency.
- Honored as an ENERGY STAR Leader for reducing the energy use across all 18 schools by at least 20%—the only ENERGY STAR Leader in Virginia.
- As recommended by ENERGY STAR, replaced outdated fluorescent lights with electronic T-8 lighting and installed digital building automation systems.
- Installed occupancy sensors, heat wheels, variable-frequency pumping, and geo-thermal linked heat pumps during building renovations.
- Trains employees to enhance their own energy conservation habits.

How States are Working with ENERGY STAR

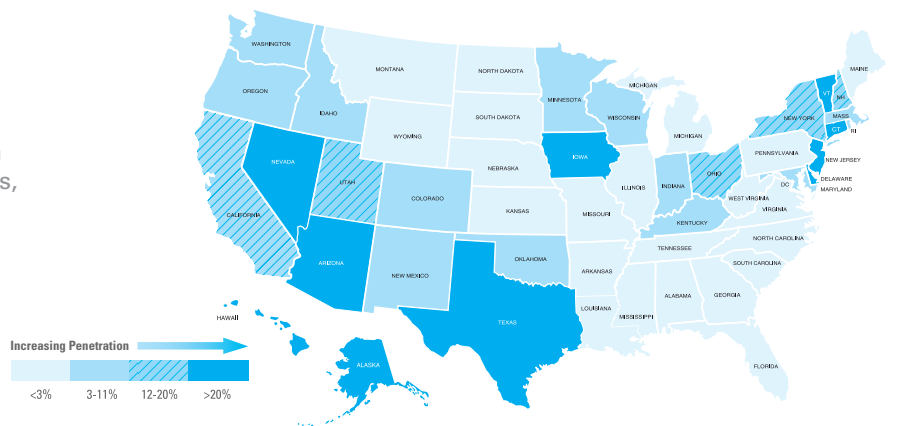
ENERGY STAR State Partners

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.



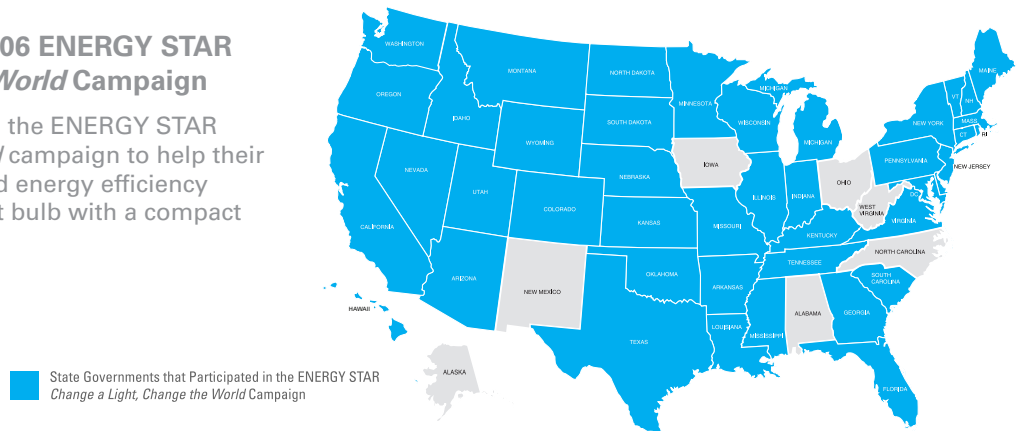
ENERGY STAR Qualified New Homes Gaining Market Share

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%.



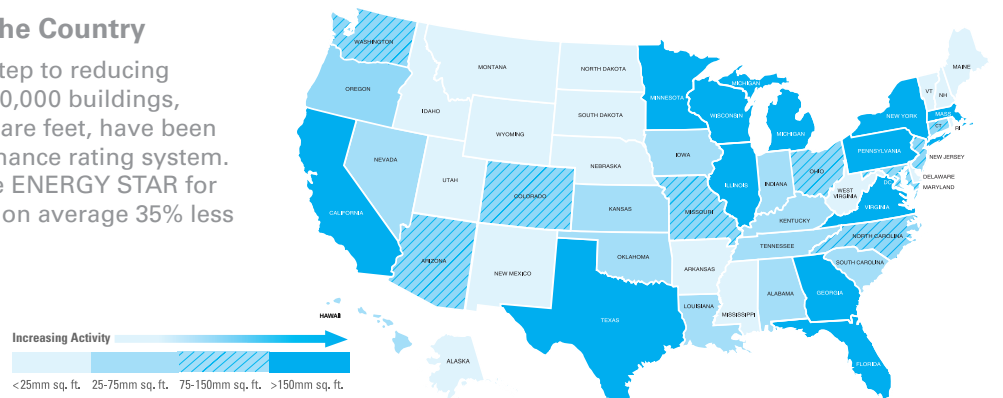
States Participating in the 2006 ENERGY STAR Change a Light, Change the World Campaign

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.