

Economic Investments in North Carolina



Office of Building Technology, State and Community Programs (BTS)

BTS works with partners in the private and non-profit sectors and in state and local governments to make the nation's residential and commercial building stock more energy-efficient, comfortable, affordable, and sustainable.

The mission of DOE's Office of Energy Efficiency and Renewable Energy is to promote a strong economy, cleaner environment, and more secure future through the development and deployment of energy efficient and renewable energy technologies.



BTS invested a total of \$10.3 million in North Carolina in Fiscal Years 2001 and 2002



The North Carolina State Energy Division in Raleigh, through the State Energy Program (SEP), received \$854,000 in FY 2001 and \$1,016,000 in FY 2002 for a variety of activities including implementation of the State Energy Plan, improving State Building Energy Codes, and providing public education and awareness efforts (e.g., hotlines, publications, and training).

North Carolina State Energy Program (millions of dollars)



In a cooperative effort with the **Environmental Protection Agency (EPA)** in **Research Triangle Park**, BTS funded \$595,000 in FY 2002 for R&D in Supermarket Refrigeration and Defrost cycles.



Cree Lighting of Durham was awarded \$500,000 from a FY 2000 Solicitation for R&D in White Light Emitting Diode development for general illumination applications.



Coastal Community Action, Inc., Four County Community Services, Inc., Gastonia Housing Authority, Johnston-Lee Community Action, Inc., Joint Orange-Chatham Community Action, Inc., Laurinburg Housing Authority, North Carolina Department of Commerce-Energy Division, Rebuild Asheville, Rebuild Concord, Rebuild Duke University Facilities, Rebuild Greensboro, Rebuild Hayti, Rebuild LaGrange, Rebuild Nash & Edgecombe Counties, Rebuild Roanoke-Chowan, Rebuild Salisbury, Rebuild Shelby, and Wilson Housing Authority received technical assistance from the Rebuild America program valued at a combined total of \$360,000 in FY 2002. This program accelerates energy efficiency improvements in existing commercial, institutional and multifamily residential buildings through private-public partnerships created at the community level. It also assists with business planning, technical product development, marketing, workshops, and training for its partners.

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America's buildings — our homes, workplaces, and institutional buildings — consume roughly \$230 billion worth of energy each year. The average family spends about \$1,300 on home energy. Energy for buildings has environmental as well as economic implications: its production, distribution, and use affect our environment and health through the emission of carbon dioxide, sulfur dioxide and nitrogen oxides.



The **Weatherization Assistance Program**, through 31 local service providers (e.g., community action agencies) is working to increase energy efficiency and reduce the burden of energy costs to low-income North Carolina residents, especially households with elderly members, individuals with disabilities, and families with children. In FY 2001, Federal funding combined with leveraged state and local resources resulted in the weatherization of approximately 3,102 homes. In FY 2002, North Carolina was allocated \$4,210,497 in weatherization funding.

North Carolina Weatherization
(millions of dollars)



The **North Carolina State Energy Division in Raleigh**, through the SEP Special Projects Office of Codes and Standards received \$155,000 in FY 2001 to design and conduct an assessment of building code compliance for both residential and commercial buildings.



As part of the Building America program, **Pulte Homes of Charlotte** received technical assistance valued at \$10,000 in FY 2002 through the Building Sciences Consortium (BSC) to complete and test one energy efficient demonstration house. **Fortis Homes**, with projects in **Charlotte** and **Raleigh**, received technical assistance valued at \$20,000 in FY 2002 through the Integrated Building and Construction Solutions Consortium (IBACOS) where 2 of 5 planned prototype houses have been completed. **Carolina Country Builders** in **Pittsboro** received technical assistance valued at \$10,000 in FY 2002 from the National Renewable Energy Laboratory (NREL) in Colorado to complete and test one energy efficient demonstration house. Building America is an industry-driven program helping to stimulate major changes in how residential buildings are designed, built, and delivered to the consumer. The program applies systems engineering in order to accelerate the adoption of building processes and technical innovations which result in energy efficient, environmentally sensitive, affordable, and adaptable residences on a community-wide scale.