

Economic Investments in Iowa



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 \$9.7 million in Iowa in Fiscal Years 2001 and 2002



The **Iowa State Energy Office in Des Moines**, through the State Energy Program (SEP), received \$537,000 in FY 2001 and \$625,000 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).

Iowa State Energy Program
(millions of dollars)



The **Robur Corporation in Walcott** received \$1.6 million in FY 2000 to continue to fabricate GAX prototype heat pumps for multiple field tests and demonstrations. Robur will incorporate the manufacturing process for GAX heat pumps into present gas chiller production lines. The GAX heat pump will then be commercialized under a cost-shared program with DOE, the gas industry, and heat pump manufacturers.



The cities of **Centerville, Harlan, LeMars, Waterloo, and Waverly** along with **Hamilton County S.E.E.D., Rebuild Akron, Rebuild Cedar Falls, Rebuild Des Moines, Rebuild Iowa, Rebuild Muscatine, Rebuild Pella, Rebuild Polk County, and Rebuild Webster City** received technical assistance from the Rebuild America program valued at a combined total of \$280,000 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.



The **Iowa State Energy Office in Des Moines** received \$148,200 in FY 2001 from the SEP Special Projects Office of Codes and Standards to adopt a more recent energy code, provide energy code training, to collect building data to determine a baseline of current residential building practices and level of energy code compliance.



Economic Investments in Iowa



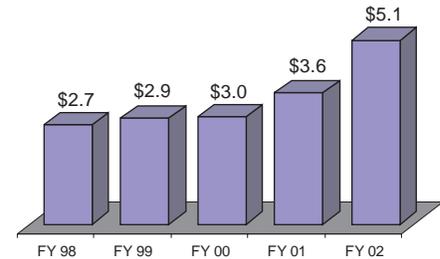
Office of Building Technology, State and Community Programs (BTS)

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 18 local service providers (e.g., community action agencies) is working to increase energy efficiency and reduce the burden of energy costs to low-income Iowa residents, especially households with elderly residents, 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 1,581 homes. In FY 2002 Iowa residents was allocated \$5,051,761 in weatherization funding.

Iowa Weatherization
(millions of dollars)



Economic Investments in Illinois



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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 \$28.1 million in Illinois in Fiscal Years 2001 and 2002



The **Illinois Bureau of Energy and Recycling in Springfield**, through the State Energy Program (SEP), received \$1,570,000 in FY 2001 and \$1,796,000 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).

Illinois State Energy Program
(millions of dollars)



The **Construction Engineering Research Laboratory (CERL)** of the Department of Defense, located in **Champaign**, received \$450,000 in FY 2002. This funding supports efforts to consolidate the best capabilities of previously developed building design software programs.



The **Illinois Bureau of Energy and Recycling in Springfield**, through the SEP Special Projects Office of Codes and Standards received \$214,000 in FY 2002 to facilitate the acceptance and implementation of the 2000 IECC in the city of Chicago through outreach, training, and code enforcement.



The **Chicago Housing Authority**, the cities of **Chicago** and **Edwardsville**, **Rebuild Carbondale**, **Rebuild Fulton**, **Rebuild Illinois**, **Rebuild Kewanee**, and **Valley View Community Unit School District 365-U** received technical assistance from the Rebuild America program valued at a combined total of \$160,000 in FY 2002. This program accelerates energy efficiency improvements in existing commercial, institutional and multi-family 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.



The **University of Illinois** received \$50,000 in FY 2002 to support efforts to develop lightweight, high-performance heat exchangers.



Argonne National Laboratory (ANL) received \$30,000 in FY 2002 to support BTS communications, programmatic outreach, printing, newsletter, high performance building series, and display work.



Economic Investments in Illinois



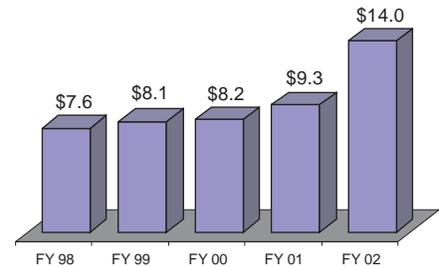
Office of Building Technology, State and Community Programs (BTS)

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The **Weatherization Assistance Program**, through 36 local service providers (e.g., community action agencies) is working to increase energy efficiency and reduce the burden of energy costs to low-income Illinois 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 1,936 homes. In FY 2002, Illinois was allocated \$14,023,856 in weatherization funding.

Illinois Weatherization
(millions of dollars)



As part of the Building America program, **Town and Country Homes** received technical assistance through the Building Science Consortium in FY 2002 valued at \$20,000 to support the planning and design of the **Centennial Crossing** project in **Vernon Hills** and the **Foxford Hills** project in **Cary**. Over 100 of the 581 planned houses have been completed. The following builders also received assistance in FY 2002:

- **Bigelow Homes** of **Chicago** received a detailed series of recommendations for improving system performance, quality, comfort, and productivity from the Building Science Consortium valued at \$10,000.
- **Habitat for Humanity** of **Maywood** received technical assistance from the Building Science Consortium valued at \$10,000 where their urban infill project has completed one of a planned 60 houses.
- **Sturbridge Construction** received planning and design support for the **Prairie Crossing** project in **Grayslake** from the Building Science Consortium valued at \$10,000. One hundred and seventy of the 350 homes planned for this community have been completed. In **Huntley**, systems engineering is underway for the construction of two prototype houses by **Del Webb Corporation** at **Sun City**.
- **Cambridge Homes** in **Carol Stream**, **Crest Hill**, and **GlenView** received technical assistance valued at \$30,000 from the CARB consortium at **Forest Glen**, **Carillon Lakes**, and **Cambridge at the Glen** where 118 of an expected buildout of 332 houses have been completed.

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.

Economic Investments in Indiana



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.

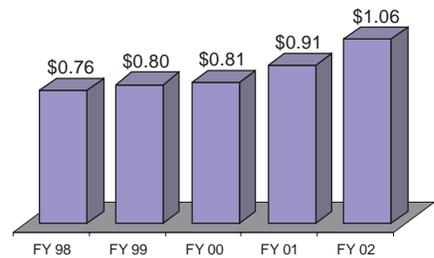
BTS invested a total of \$13.2 million in Indiana in Fiscal Years 2001 and 2002



The **Indiana State Energy Office** in **Indianapolis**, through the State Energy Program (SEP), received

\$907,000 in FY 2001 and \$1,060,000 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).

Indiana State Energy Program
(millions of dollars)



Bedford Urban Enterprise Zone Association Inc., Center for Energy Environment, City of Portage, Develop New Albany, Inc., Historic Downtown Program/Rising Sun Redevelopment Commission, Jasper County Industrial Foundation, Lakeland School Corporation, Loogootee Community Schools, Mill Creek Community School Corporation, Northwest Gateway New Village Initiative, South Spencer County School Corporation, and the state of **Indiana** received technical assistance from the Rebuild America program valued at a combined total of \$240,000 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.



The **Indiana State Energy Office** in **Indianapolis** received \$209,377 in FY 2001 from the SEP Special Projects Office of Codes and Standards for a baseline study of current commercial building practices, training for enforcement personnel, an assessment of the impact of these activities on commercial building practices, and to assess current construction practice quality for single-family residences in relation to the energy code, and to provide code training.



Economic Investments in Indiana



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

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 24 local service providers (e.g., community action agencies) is working to increase energy efficiency and reduce the burden of energy costs to low-income Indiana residents, especially households with elderly residents, 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 1,721 homes. In FY 2002, Indiana was allocated \$6,633,467 in weatherization funding.

Indiana Weatherization
(millions of dollars)



In **Indianapolis**, **Best Homes**, and **Estridge Homes**, with locations at **Centennial** (120 homes) and **Westfield** (600 homes), and **Calumet Management** in **Chesterton**, located at **Coffee Creek** (2200 homes planned), received technical assistance provided from the Building America program valued at \$30,000 that included a detailed series of recommendations for improving system performance, quality, comfort, and productivity; and planning and design support. In **Ft. Wayne**, where a prototype development is in progress, **ALH/Hart Housing** received technical assistance valued at \$10,000. 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.

Economic Investments in Michigan



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 \$28.4 million in Michigan in Fiscal Years 2001 and 2002



The Michigan State Energy Office in Lansing,

through the State Energy Program (SEP), received \$1,332,000 in FY 2001 and \$1,525,000 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).

Michigan State Energy Program
(millions of dollars)



As part of the Building America Program, **Pulte Homes of Grand Rapids** received technical assistance from the Integrated Building and Construction Solutions (IBACOS) Consortium valued at \$10,000 in FY 2002. **Crosswinds Communities in Detroit at Andover Woods** and **Orchard View Estates in Fenton Township** received technical assistance through the Consortium for Advanced Residential Buildings (CARB) valued at \$20,000. **Venture Homes of Pontiac** received technical assistance through the Building Science Consortium (BSC) valued at \$10,000. Building America is an industry-driven program designed 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.



Rebuild Michigan received technical assistance from the Rebuild America program valued at \$20,000 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.



Economic Investments in Michigan



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

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 33 local service providers (e.g., community action agencies) is working to increase energy efficiency and reduce the burden of energy costs to low-income Michigan residents, especially households with elderly residents, 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 3,472 homes. In FY 2002, Michigan was allocated \$15,381,490 in weatherization funding.

Michigan Weatherization
(millions of dollars)



Economic Investments in Minnesota



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 \$19.0 million in Minnesota in Fiscal Years 2001 and 2002



The **Minnesota Energy Office in St. Paul**, through the State Energy Program (SEP), received \$800,000 in FY 2001 and \$916,000 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).

Minnesota State Energy Program
(millions of dollars)



The **University of Minnesota in St. Paul** received \$300,000 in FY 2002 to complete the Windows and Glazings Handbook, and to support work to develop guidelines and information products on energy efficient windows for residential and commercial building applications.



The **Minnesota Energy Office in St. Paul** received \$98,184 in FY 2001 from the SEP Special Projects Office of Codes and Standards to improve the energy efficiency and indoor air quality in homes.



The **Minnesota Department of Commerce** received funding of \$60,634 in FY 2002 to conduct a two-year effort to establish its lead role in the Rebuild America program by hiring a Rebuild America program representative and beginning to create Rebuild America Partnerships. The program will be used as a gateway to begin communications with Minnesota communities to ascertain how DOE may help facilitate meeting the communities' energy conservation and energy resource needs.



As part of the Building America program, **Hans Hagen Homes of Minneapolis; Centex Homes of Minnetonka; Town and Country Homes of Maple Grove, Eagan, and Blaine; and Pulte Homes in Eagan, Rosemont, Chaska, Burnsville, Ostego, and Apple Valley** received technical assistance at a combined value of \$120,000 in FY 2002 through the Building Science Consortium. 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. To date, 311 of a projected 612 homes have been completed by these builders.

Economic Investments in Minnesota



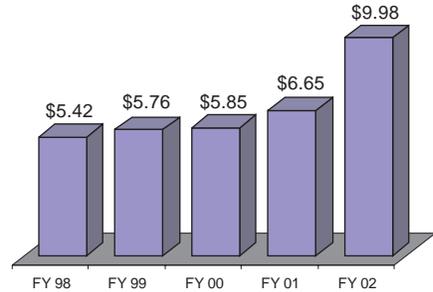
Office of Building Technology, State and Community Programs (BTS)

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The **Weatherization Assistance Program**, through 33 local service providers (e.g., community action agencies) is working to increase energy efficiency and reduce the burden of energy costs to low-income Minnesota residents, especially households with elderly residents, 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 2,969 homes. In FY 2002, Minnesota was allocated \$9,979,183 in weatherization funding.

Minnesota Weatherization
(millions of dollars)



The city of **Saint Paul/Minneapolis** and **Independent School District 728** received technical assistance from the Rebuild America program valued at a combined total of \$40,000 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.

Economic Investments in Missouri



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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 \$11.7 million in Missouri in Fiscal Years 2001 and 2002



The Missouri Department of Natural Resources Division of Energy in Jefferson City, through the State Energy Program (SEP), received \$747,000 in FY 2001 and \$872,000 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).

Missouri State Energy Program (millions of dollars)



SEMCO/Trane of Columbia received \$275,000 in FY 2000 to conduct research related to advanced desiccant cooling technology for more energy-efficient cooling systems. The company is developing and field testing desiccant systems suitable for larger building applications.

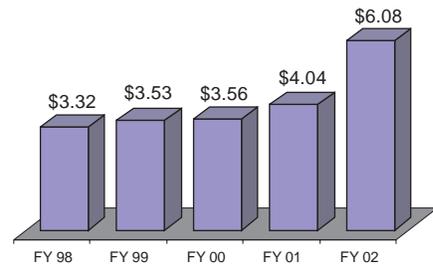


EnergyWorks, The Gateway Center, Housing Authority of the City of Springfield, and Rebuild Missouri received technical assistance from the Rebuild America program valued at a combined total of \$80,000 in FY 2002. This program accelerates energy efficiency improvements in existing commercial, institutional 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.



The Weatherization Assistance Program, through 18 local service providers (e.g., community action agencies) is working to increase energy efficiency and reduce the burden of energy costs to low-income Missouri residents, especially households with elderly residents, 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 2,087 homes. In FY 2002, Missouri was allocated \$6,078,686 in weatherization funding.

Missouri Weatherization (millions of dollars)



Economic Investments in Ohio



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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 \$26.5 million in Ohio in Fiscal Years 2001 and 2002



The Ohio Department of Development, Office of Energy Efficiency in Columbus, through the State Energy Program (SEP), received \$1,491,000 in FY 2001 and \$1,728,000 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).

Ohio State Energy Program
(millions of dollars)



Ohio's EnergySmart Schools, Portsmouth Metropolitan Housing Authority, Rebuild Ohio, and the Rebuild Toledo Energy Collaborative, along with 18 other community partners received technical assistance from the Rebuild America program valued at a combined total of \$440,000 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.



The Ohio Department of Development, Office of Energy Efficiency in Columbus received \$87,300 in FY 2001 from the SEP Special Projects Office of Codes and Standards to focus on training code officials, design professionals, those in the building trades, and teachers and students of the allied building trades in universities and vocational technical schools.



The Ohio Department of Development, Office of Energy Efficiency in Columbus, through the SEP Office of Special Projects, was awarded \$56,300 in FY 2001 to accelerate the deployment (both in Ohio and the region) of design principles and construction methods developed by the Building America program. The project will assess current construction practices, make modifications to plans and drawings, train Habitat for Humanity affiliates, and support affiliates during the construction phase with technical assistance. Manuals will be produced, and training programs provided.



Economic Investments in Ohio



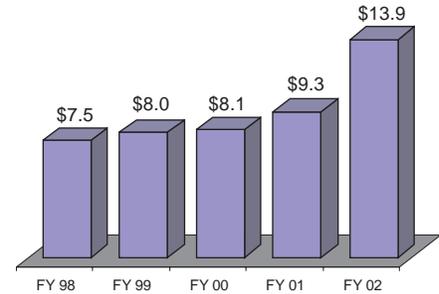
Office of Building Technology, State and Community Programs (BTS)

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The **Weatherization Assistance program**, through 37 local service providers (e.g., community action agencies) is working to increase energy efficiency and reduce the burden of energy costs to low-income Ohio 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 8,247 homes. In FY 2002, Ohio was allocated \$13,913,935 in weatherization funding.

Ohio Weatherization
(millions of dollars)



As part of the Building America program, the **Randall Homes Corporation** in **Toledo** and **Greenbuilt Homes** in **Cleveland** received technical assistance valued at a combined \$20,000 in FY 2002 through the Building Sciences Consortium (BSC) to plan four houses and to reengineer two modular homes. In addition, **New Era Building Systems** in **Astabula** received technical assistance valued at \$10,000 in FY 2002 through the Integrated Building and Construction Solutions Consortium (IBACOS). 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.

Economic Investments in Wisconsin



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BTS invested a total of \$16.2 million in Wisconsin in Fiscal Years 2001 and 2002



The Wisconsin Division of Energy and Intergovernmental Relations

in **Madison**, through the State Energy Program (SEP), received \$834,000 in FY 2001 and \$956,000 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).

Wisconsin State Energy Program
(millions of dollars)



As part of the Building America program, the **Consortium for Advanced Residential Buildings (CARB)** in **Kenosha** received \$410,000 in FY 2002. This group provides research results used to design and construct thousands of energy efficient, environmentally friendly, and cost effective houses in communities throughout the U.S. 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.



The **Wisconsin Division of Energy and Intergovernmental Relations** in **Madison**, through the SEP Special Projects Office of Codes and Standards received \$120,000 in FY 2001 to increase the understanding of the WI energy codes, building science techniques, the WI Energy Star program, and the science behind the energy code.



The **University of Wisconsin** in **Madison**, received \$120,000 in FY 2002 to support work in TRNSYS/PV Integration through the Lawrence Berkeley National Laboratory.



The Wisconsin Division of Energy and Intergovernmental Relations

in **Madison**, through the SEP Office of Special Projects, was awarded \$90,000 in FY 2001 to target the Wisconsin residential construction market, disseminating advanced building techniques that increase comfort, durability, health, safety and energy efficiency without additional cost. Building on what is already underway in the Wisconsin ENERGY STAR Homes Program, the Building America program will expand the effort to provide additional expertise and accelerate implementation of the systems engineering approach to the site-built home market, and spread into the modular and component home market.

Economic Investments in Wisconsin



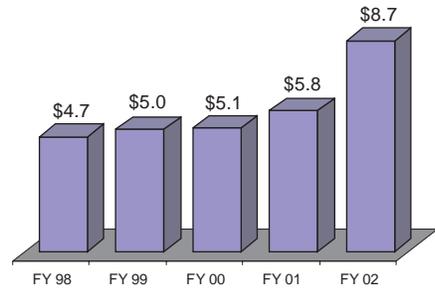
Office of Building Technology, State and Community Programs (BTS)

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The **Weatherization Assistance Program**, through 22 local service providers (e.g., community action agencies) is working to increase energy efficiency and reduce the burden of energy costs to low-income Wisconsin 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 2,609 homes. In FY 2002, Wisconsin was allocated \$8,676,447 in weatherization funding.

Wisconsin Weatherization
(millions of dollars)



The state of **Wisconsin** received technical assistance from the Rebuild America program valued at \$20,000 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.



As part of the Building America program, **Hans Hagen Homes in Hudson** received technical assistance valued at \$10,000 in FY 2002 from the Building Science Consortium that included planning and design support as well as a detailed series of recommendations for improving system performance, quality, comfort, and productivity. 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.