

Table P2-AA

Summary of Energy Efficiency Programs in Place in Arizona

Program Title	Program Description	2002 Status	Ref.												
Arizona Energy Office, Arizona Dept of Commerce	<p>The Energy Office's \$2.3 million annual budget is funded through a combination of federal funds and Petroleum Violation Escrow funds.</p> <ul style="list-style-type: none"> • Director: Craig Marks • (602) 771-1139 • craigm@azcommerce.com <p>http://www.azcommerce.com?energy/default.asp</p>	<p>The Energy Office's mission is to encourage energy efficiency and renewable-energy usage, provide energy education and community outreach, offer policy advise to the Executive and Legislative branches, and help Arizona low-income residents to reduce their utility bills and improve their comfort and safety.</p>	3,4												
Low Income Weatherization	<p>The Energy Office administers Arizona's \$3 annual million (federal and private funds), low-income, weatherization program The primary mission of this program is to reduce the energy required for space heating and cooling for income eligible households applying for assistance through one of ten sub-grantees, statewide. This program receives its primary funding from the U.S. Department of Energy and the U.S. Department of Health and Human Services. The program also leverages additional funds through partnership with utilities, and other federal and state housing programs. Many aspects of the Residential Training and Technical Assistance Programs are now incorporated into the training of Weatherization sub-grantees, which assures that savings are maximized.</p> <p>What's done:</p> <ul style="list-style-type: none"> • Adding thermal insulation to the residential building envelope, most typically attic insulation. Shading sun-exposed windows, primarily for houses using central refrigeration cooling. 	<p>17,000 homes weatherized to date.</p> <p>In 2002, 695 homes were weatherized statewide, with present- value utility savings of three million dollars.</p> <p>In addition to approximately \$2.2 million in federal funds, the utilities provided the following:</p> <p>2002 Utility Funding:</p> <table border="0"> <tr><td>SW Gas</td><td>\$350,000</td></tr> <tr><td>APS</td><td>\$302,397</td></tr> <tr><td>TEP</td><td>\$180,000</td></tr> <tr><td>Citizens</td><td>\$68,885</td></tr> <tr><td>Co-ops</td><td>\$4,500</td></tr> <tr><td>Total</td><td>\$905,782</td></tr> </table>	SW Gas	\$350,000	APS	\$302,397	TEP	\$180,000	Citizens	\$68,885	Co-ops	\$4,500	Total	\$905,782	3
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	<ul style="list-style-type: none"> • Implementing air leak control measures to reduce excessive infiltration of outside air. • Testing, tuning and maintaining heating and cooling equipment. • Reducing duct leakage where heating and central refrigerated air is distributed by a forced air system. • Installing low-flow showerheads and other general energy and water efficiency measures. • Other energy conservation improvements as identified by the home energy auditor. 		
Special Project Grants	<p>The Energy Office administers the State Energy Project – Special Project Grants. Each year states submit proposals in response to a DOE solicitation identifying how specific technologies could be implemented in their region of the country. DOE then selects the projects that best meet national energy goals. The Energy Office publicizes grant availability, helps prepare grant applications, and administers grants. The Energy Office is currently administering \$2,865,375 SEP Special Project funds.</p>	<p><u>2002 Special Project Awards</u> \$800,000 to Pinnacle West for Hydrogen Power Park \$75,000 to Tucson USD for Tucson Solar Schools \$100,000 for Teaching Energy Conservation</p> <ul style="list-style-type: none"> • Supports Implementation of Energy Codes in Tucson Metro Area and Southern Arizona Communities <p>\$25,000 for Tucson Regional Clean Cities Coordinator \$48,808 to AZ Energy Office to Film New Solar in Arizona Documentary \$45,000 to Energy Office for State Industries of the Future Program</p> <ul style="list-style-type: none"> • Federal IOF – 9 Industries Targeted to Improve Energy Efficiency and Productivity, and to Manage Waste Streams • AZ IOF Chapter Will Target 4 of the Federal IOFs – Agriculture, Aluminum, Forest Products, and Mining <p>Goal – Establish Industry, Government, University Partnerships, With MOU</p>	

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Residential-Market Training and Technical Transfer	<p>Over 30,000 new homes are built each year in metro-Phoenix, making it one of the largest new home markets in the United States. Thousands more homes are built each year in other fast-growing Arizona communities. Improving the energy efficiency of new homes has an enormous impact on Arizona's energy usage.</p> <p>The Energy Office has long partnered with Arizona utilities to provide technical assistance and training for the building trades on the latest energy efficiency technologies and techniques, including:</p> <ul style="list-style-type: none"> • Infrared imaging to analyze insulation performance; • Smoke generation to show duct leakage; and • Using pressure diagnostics, such as the blower door testing, duct blasters, and digital monometers, to confirm envelope integrity. <p>Overall the goal is to encourage builders and subcontractors to take a scientific systems approach to home construction and incorporate energy-efficient techniques into the building process.</p>	<p>Executed by 2004.</p> <ul style="list-style-type: none"> • Arizona's largest HVAC contractor now seals all ductwork, which has saved Arizonans over \$27 million in energy bills since 1997. • Over the past year, in partnership with the home-building industry and Arizona utilities, the Arizona Energy Office provided 23 days of training to over 2,500 attendees from the building-trades industry. • Because of the innovations and techniques brought to the market, builders have helped develop and introduce Energy Star-certified homes into the Arizona market. Energy Star is a joint program offered by the U. S. Environmental Protection Agency and the U. S. Department of Energy. Energy Star certification requires a home to be 30% more efficient than the 1995 Model Energy Code, which saves the average homebuyer approximately \$400 a year. Of the 34,000 Energy Star homes built nationally in 2001, over 8,000 were built in Arizona. • Arizona homebuilders are also national leaders in offering guaranteed heating and cooling costs. These homes are typically 40% to 50% more efficient than required by the 1995 Code, and have guaranteed annual heating and cooling costs of approximately \$.30 per square foot. Regional and national homebuilders now market entire subdivisions where each home comes with guaranteed energy bills. 	

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Municipal Energy Management Program	<p>The MEMP (Municipal Energy Management Program) encourages and assists in the development and implementation of energy management programs by facilitating the planning process and providing the necessary basic tools, staff training and technical assistance. As part of MEMP, the Energy Office makes funds available for energy saving projects. Those eligible to apply include incorporated Arizona cities, towns, counties, improvement districts, and Indian tribes with populations under 70,000.</p> <p>The MEMP approach to energy conservation is a simple and direct step-by-step approach. The first step is to understand where energy is being consumed and how much it costs, based on the utility bill analysis and audits. The second step identifies strategies for lowering energy costs. The third step assists in incorporating energy management into future development through an energy management plan.</p>	\$150,000 awarded to Arizona communities in 2002	
Federal Energy Management Program	<p>Goal: reduce the cost and environmental impact of the federal government by advancing energy efficiency and water conservation, promoting the use of distributed and renewable energy, and improving utility management decisions at federal sites.</p> <p>Funds are occasionally available to the Arizona Energy Office to partner with Indian communities and military bases or other federally-owned facilities</p>	<p>Ak Chin Community. This outreach was funded by the Western Area Power Administration and FEMP. The Energy Office performed the following services for the Community:</p> <ul style="list-style-type: none"> • Residential Energy Audits • Weatherization • Training 	
Market Design Initiatives	Salt River Project's M-Power is a residential prepayment program, which uses a special electric meter located outside the home, a small display unit		

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	<p>located inside the home and smart cards, which work in a way similar to prepaid telephone calling cards. The SRP M-Power display shows how much energy is used daily and hourly, and when to buy more energy via the smart cards. With actual information on cost of consumption, customers conserve and can save as much as 10% on electric bills. At the same time, SRP reduces turn-off and turn-on costs, while improving customer satisfaction.</p>		
<p>Regulated Utility Customer Funding or System Benefit Charge Funding for Energy Efficiency</p>	<p>Tucson Electric Power: 2002 --\$3 million in approved SBC spending, of which \$2 million was for renewable energy programs and \$1 million for low income and energy efficiency programs.</p> <p>Arizona Public Service: 2002 - \$7 million in approved spending, of which \$6 million was used for renewable energy programs and technology development, and \$1 million for low-income customer support and other programs. In addition, under the EPS program, APS collected an additional \$6,571,745 for renewable energy programs in 2002.</p> <p>See also the listing in Table P2-A under the heading Regulated Utility Customer Funding or System Benefit Charge Funding for Renewable Energy.</p>		
<p>Residential New Construction and New Home Guarantee Programs</p>	<p>To help promote the value of energy efficient residential construction, APS works with builders and building material vendors to provide buyers with a heating and cooling guarantee. All participating builders must offer their homebuyers a 2-year guarantee that the monthly costs to heat and cool their home will be less than a specified amount. APS has promoted the concept of guaranteed heating and cooling bills through a multi-media campaign</p>	<p>Currently four of the top ten production builders in the Phoenix metro area are participating in the program and over 3500 home lots have been committed.</p>	

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	<p>including TV, print, on-line, and point-of-sale materials.</p> <p>In 1997, TEP designed and implemented the first utility operated new home guarantee program in the nation. The program philosophy addresses the issues of affordability, durability, comfort, health and safety using scientific laws of airflow, moisture-flow and pressure management within a home. Homes are constructed to high standards set by TEP and include on-site inspections of framing areas related to energy performance, insulation installation, and HVAC system design and installation. On-site testing is also provided to measure duct leakage, whole-house infiltration and pressure management within the home under various operating conditions. If a home passes all inspection and testing criteria, the homeowner receives a guarantee from TEP that heating and cooling costs will not exceed a predetermined average cost per day (calculated on each separate model home) and a guarantee for comfort for a pre-set time period. Homes permitted prior to February 20, 2003 receive a 3-year guarantee and homes permitted after February 20, 2003 receive a 5-year guarantee. Homeowners who purchase a TEP Guarantee home qualify for a specially designed rate-tariff that reduces the cost of all electricity used in the home by 12% annually compared to the standard residential electric rate. The homeowners also have the option to increase this electric rate savings to either 18% or 22% depending on their selection of TOU and/or the installation of solar water heating systems.</p>	<p>Since inception to December 2002, there were 5590 homes either completed, in some progress of completion or waiting for construction to begin. The program is operated within the utility structure with quality control provisions and the guarantee provided by a utility. All TEP Guarantee Homes qualify for ENERGY STAR since the qualifications from TEP are more stringent than ENERGY STAR. TEP provides the DOE/EPA program documents to customers along with the Guarantee certification.</p>	
New Construction	In partnership with the Arizona Energy Office, APS has conducted extensive research and testing on	In 1998, APS and the Arizona Energy Office began offering Building Science training for	

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<p>Energy Efficiency Research and Training</p>	<p>new residential construction with blower doors, duct blasters, infrared cameras, and other diagnostic tools. The result of these tests is a list of building construction details that need the most focus to improve home performance. In 1998, APS and the Arizona Energy Office began offering Building Science training for residential builders.</p> <p>TEP hosts quarterly education programs to target audiences of builders, sub-contractors, and city/county code officials, architects and consumers. These programs are designed to educate all audiences on the scientific approach of building new homes or retrofitting existing homes to gain the maximum benefit in affordability, durability, comfort and health and safety. TEP also adds matching funds for grants provided to the City of Tucson 'Teaching Energy Conservation' project which educates consumers, builders, contractors, consumers and code officials on various conservation related issues.</p> <p>The SRP-Certified Home (SCH) program was introduced in May 1995. For a subdivision to be SRP certified, SRP works directly with the builder to ensure that each home design meets our energy-efficiency standards. SRP certification means the home design includes certain energy-efficient features. Certification is based on the SRP-Certified Homes Point Sheet that primarily is a construction specification trade-off system. With the system, one design feature may be substituted for another if the overall design complies with the SRP-Certified Home energy consumption standard. Between 1999 and 2002, approximately 21,000 SCH contracts were signed.</p>	<p>residential builders. To date, over 2000 building industry members have attended. Coupled with the heating/cooling guarantee program, this has resulted in substantial improvements in the real world performance of residential new construction as confirmed through field studies by the Arizona Energy Office.</p>	

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	<p>In 2002 SRP announced a new addition to the SRP-Certified Home program. Energy Code Compliance certification is now available upon request. SRP can provide REM/Design compliance reports for 1998/2000 International Energy Conservation Codes (IECC), CABO Model Energy Code (MEC), and ASHRAE 90.2. By adding the new "Code Compliance" feature to the program we can now assist builders in meeting the energy efficiency codes required by the various municipalities.</p>	<p>Between 1999 and 2002, approximately 21,000 SCH contracts were signed.</p>	
<p>Qualified Contractor Program</p>	<p>APS offers referrals to customers seeking qualified, professional HVAC contractors for service or replacement of their existing AC/heat pumps. To qualify for the program, residential HVAC contractors are required to meet stringent requirements and complete ongoing rigorous APS education courses for their service technicians.</p>	<p>To date, APS has subsidized technical training for over 6000 service technicians. APS currently provides free contractor referrals to approximately 4000 customers each year, ensuring that units are properly serviced and installed.</p>	
<p>High Efficiency Appliance Programs</p>	<p>APS High Efficiency Air Conditioners Program For several years APS has worked with the air conditioner contractor community. This partnership has been instrumental in moving the market for resale air conditioners and heat pumps to high efficiency equipment. Evidence suggests that the resale market is about 90% 12 SEER, which is 15% more efficient than standard equipment, reducing demand and energy consumption.</p> <p>SRP Rebates on Highly-Efficient Refrigerators and Heat Pumps – Over the last several years, SRP has independently offered customers rebates on highly efficient refrigerators and heat pumps.</p>	<p>Since 1998, APS and contractors have distributed over 20,000 copies of the Consumer's Guide to an Energy Efficient Air Conditioning System as an education tool for customers.</p>	

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		SRP has issued more than 8,500 rebates on refrigerators labeled by ENERGY STAR® as exceeding federal standards and more than 1,000 rebates on heat-pumps with a 13-SEER rating that also meet additional strict criteria.	
Time of use rates	<p>APS Time of use rates - Approximately 40% of all residential customers are on a time of use rate. It is one of the highest penetrations of TOU rates in the country. APS is one of the only utilities nationwide to offer a demand rate for residential customers. Most new APS customers apply for one of the two TOU rates. Evidence suggests it reduces demand and shifts load. A recent survey of customers indicates that over 75% of TOU customers do shift some of their energy use to off-peak time periods. Customers feel it gives them control over their electric bill and helps conserve peak energy.</p> <p>SRP has approximately 140,000 customers on our peak-load shifting program, Time-of-Use (TOU). Residential TOU customers average 75% off-peak usage annually, while non-TOU residential customers average 72% - 73% off-peak usage annually. The result of TOU is that SRP has been successful in shifting 2%-3% of our average annual energy consumption to off-peak.</p>		
Peak Reduction Campaign	Commercial Peak Reduction Campaign -- Since the summer of 2001, APS has promoted a voluntary summer peak energy management initiative with commercial customers. Participating customers pledge to save energy on extreme summer days when temperatures exceed 110 degrees in Phoenix. Customers receive an email on "Peak Power Days" asking them to turn thermostats up two degrees, turn off unnecessary lights and equipment, and adjust the		

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	<p>schedule of energy-intensive processes. The campaign has helped shave peak consumption and heightened awareness of the need to save energy on extreme summer days.</p>		
Shade Trees Campaign	<p>The TEP Trees Program promotes energy conservation and the environmental benefits associated with planting low-water usage trees and other vegetation. Desert-adapted trees have been provided to residential neighborhoods, low-income families, public areas and schools by TEP. The residential trees are to be located on the south, west and east sides of homes in the TEP service area with the objective of continuing positive community service as well as providing Demand-Side Management (“DSM”) benefits.</p> <p>Residential Program: There were 3,000 trees distributed to roughly 1,500 homes for the period January 1, 2002 through December 31, 2002.</p> <p>School and Community Programs: For the period January 1, 2002 through December 31, 2002, this program provided 105 fifteen-gallon-sized and 41 five-gallon-sized trees to 43 schools. In addition, 63 community projects received 115 fifteen-gallon-sized and 111 five-gallon-sized trees.</p>		
Energy Efficiency Education	<p>APS provides a free on line energy analysis on aps.com. It allows customers and prospective customers to analyze their home and business energy use and identify customized energy efficient measures. APS provides seasonal energy savings tips online and in customer bill inserts.</p> <p>SRP Energy Savings Solutions Campaign Energy Savings Solutions (ESS) is a multi-media campaign, which runs from May through September. The goal of ESS is to educate customers about effective energy management. ESS provides</p>		

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	<p>customers with useful and easy ways to lower their energy usage and enables customers to make informed decisions everyday by demonstrating how home energy conservation efforts can help reduce energy costs.</p> <p>TEP provides free class sets of booklets to schools in its area, including, "Learning to Save Energy", which is geared to grades 3-5. TEP also offers teacher training and back up materials for two hands-on activities: The Insulation Station (which deals with residential energy issues) and The Energy Patrol (where a class or group of students learn about energy efficiency, and then try to "patrol" their school, helping remind others how to save energy). TEP also provides seasonal energy tips on-line and in mailings to customers and handouts at presentations.</p>		
Energy Star	<p>Customer Education on Purchasing Decisions SRP has been an ENERGY STAR® partner since 1999. This DOE/EPA program establishes stricter efficiency criteria for new products. As a partner, SRP has been able to not only increase awareness of ENERGY STAR, but also to provide information for customers so that they can make informed purchase decisions. This information has been incorporated into our monthly newsletters and our Energy Savings Solutions campaign and has also been heavily featured in on-going publications to both residential and commercial customers via <i>Powerful Solutions</i> and <i>eNews</i>.</p>		
Energy Efficiency Audits	<p>For approximately the last two years, SRP has been working with third party contractors and other entities such as the Arizona Department of Commerce to provide free or low cost energy</p>		

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	<p>efficiency audits and educational programs to energy consumers in the commercial, industrial and government sectors. The focus of the programs to date has been on high-efficiency lighting retrofits, energy information services, and improvements to compressed air systems.</p> <p>TEP offers the Energy Advisor, a quick, free, online analysis of a home's or business's monthly energy use, as well as suggestions on how to reduce energy costs.</p>		
State Energy Efficiency Demonstration Program	Working with the Department of Administration and agency facility managers, the Energy Office provides training, technical assistance and funding to implement energy savings and demand-reduction measures in state-controlled facilities. Matching grant program.	Ongoing.	
State Facility Managers Training Program	Based on results of the forensic audits and utility tracking, the Energy Office provides training and technical assistance to state facility management staff with the goal of identifying actions that may be taken to decrease electricity consumption in state facilities. This training will assist facility managers in performing diagnostics on their facilities, complete retrofits on equipment and buildings, and track energy consumption.	Ongoing.	
Energy Efficient Schools	Energy Office partnership with School Facilities Board. A jointly funded engineer works with architects and vendors to incorporate cost-effective, energy-efficient designs and equipment. Energy audits of existing facilities are also available.	Significant opportunities have been found in replacement of HVAC package units, lighting retrofits, and central heating and cooling systems, for a total avoided energy costs of \$8,916,197 per year.	
State Energy Code	HB 2541 (2001) Is a voluntary model energy code (AZ=home rule). This bill designates the State Energy Code as a legislative tool to create	Energy Code Advisory Commission <ul style="list-style-type: none"> • Code Advisory Commission members appointed 	1

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	<p>incentives for the use of energy saving devices and practices. It established a State Energy Code Advisory Commission to review and recommend changes to the State Energy Code.</p> <p>http://www.azleg.state.az.us/legtext/44leg/2r/bills/hb2451p/pdf</p>	<ul style="list-style-type: none"> • First meetings held <p>Energy Office technical support provided to Arizona municipalities</p> <ul style="list-style-type: none"> • In 2001, the Energy Office applied for and received a \$100,000 grant from the U. S. Department of Energy to build on the legislative initiative and to initiate an outreach and training program for municipalities, governmental entities, code officials, and the building industry on codes and the impact on Arizona's energy consumption. In 2002, Energy Office efforts on codes are being concentrated in the areas of 1) codes adoption, and 2) training provided to the building industry designed to help insure that structures designed to code will also perform as designed. 	
<p>Governor's Awards for Energy Efficiency</p>	<p>The Energy Office recognizes local governments, state agencies, and educational institutions for exceptional energy-conservation accomplishments.</p>	<p>The 2002 Governor's Awards for Energy Efficiency were presented to Arizona cities, educational institutions and state government agencies in recognition of successful energy conservation programs.</p> <p>Awards of Excellence, the highest honor, went to the City of Bullhead City, Arizona School Facilities Board, Mesa Unified School District and the Tucson Unified School District.</p> <p>The City of Tucson received Awards of Merit for two energy-saving projects. Awards of Merit were also given to the City of Coolidge, Arizona Department of Administration,</p>	

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		<p>Arizona Department of Public Safety and the Arizona Department of Game and Fish. The Arizona Department of Emergency and Military Affairs received Awards of Merit for two energy-conservation projects.</p> <p>In addition, Awards of Special Recognition were bestowed on the City of Tucson, Arizona Department of Administration, Arizona Department of Emergency and Military Affairs, Isaac Elementary School District and the Scottsdale Unified School District. The City of Mesa and the City of Phoenix both received Awards of Special Recognition for two energy-saving projects.</p> <p>http://www.azcommerce.com/Energy/eward.htm</p>	
Rebuild America	U.S. D.O.E. Program supported by Arizona Energy Office. - Helps businesses and communities reduce energy use in buildings.	Ongoing. Energy-efficiency seminar presented to Arizona school officials in September 2002.	1
Green Buildings	<p>Green buildings are use design and construction practices that significantly reduce or eliminate the negative impact of buildings on the environment The concept includes:</p> <ul style="list-style-type: none"> • Sustainable site planning • Safeguarding water and water efficiency • Energy efficiency and renewable energy • Conservation of materials and resources • Indoor environmental quality 	<p>City of Scottsdale Green Building Program. This is weighted rating checklist that emphasizes a system's approach by requiring 26 prerequisites. Established in 1998, 47 builders, 129 homes constructed by 2002.</p> <p>http://www.ci.scottsdale.az.us/greenbuilding/</p> <p>Southern Arizona Green Building Alliance (in progress) This green building program is in its infancy and details are still being determined Contact Loretta Ishida, The Development Center of Appropriate Technology (520) 624-6628 Loretta@dcat.net, http://www.dcat.net</p>	2

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Leadership in Energy & Environmental Design (LEED)	This program facilitates positive results for the environment, occupant health and financial return. It defines “green” by providing a standard for measurement, prevents false or exaggerated claims, and promotes whole-building, and integrated design process. LEEDS evaluated and recognizes performance in accepted green design categories, existing and proven technologies. There are four levels of certification.	<ul style="list-style-type: none"> • April Green Building Forum – sponsored by Phoenix, Scottsdale and Surprise. • New capital mall buildings including Arizona Department of Environmental Quality and Department of Administration buildings built in 2002. 	1
Utility Tracking	Developed by the Energy Office for entities with multiple accounts (e.g., schools, municipalities, large businesses). Uses Microsoft Excel to track utility usage by meter. Captures data from utility’s web site. The program identifies problems, and raises questions.	Ongoing.	1
National Industries of the Future	<ul style="list-style-type: none"> • Administered by Department of Energy – Office of Industrial Technologies • 9 Industries targeted that together supply 90% of the materials vital to US economy. • The 9 industries are: agriculture, aluminum, chemicals, forest products, glass, metal casting, mining, petroleum, and steel. • Goal: Promote energy efficiency and manage waste streams. 	<p>Arizona Industries of the Future being developed by Energy Office with D.O.E grant.</p> <p>4 industries targeted</p> <ul style="list-style-type: none"> ○ Agriculture ○ Aluminum ○ Forest Products ○ Mining 	1
Industrial Assessment Centers	<ul style="list-style-type: none"> • Administered by DOE, OIT • Enables eligible small and medium-sized manufacturers to have comprehensive industrial assessments performed at no cost to the manufacturers. • Teams of engineering faculty and students from the center, located at 26 universities around the country, conduct energy audits, or industrial assessment and provide recommendations to manufacturers to help them identify opportunities to improve productivity, reduce waste, and save 	<ul style="list-style-type: none"> • Recommendations from industrial assessments have averaged about \$55,000 in potential annual savings for each manufacturer • ASU operates one of the 28 National Centers <ul style="list-style-type: none"> ○ Director: Dr. Patrick E. Phelan ○ (480) 965-1625 ○ phelan@asu.edu 	1

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	energy.		
Income Subtraction for Construction of an Energy Efficient Residence	<p>For taxable years beginning from and after December 31, 2001, through December 31, 2010, Arizona law (A.R.S. 43-1031) allows a subtraction for a residence that is 50% more efficient than the 1995 Model Energy Code (MEC). The subtraction is allowed for selling one or more new energy efficient residences located in Arizona. The subtraction is equal to 5% of the sales price excluding commissions, taxes, interest, points, and other brokerage, finance and escrow charges. The subtraction cannot exceed \$5,000 for each new qualifying residence.</p> <p>A home's energy efficiency must be demonstrated by a score of at least 90 points (indicating that the home is 50% better than the MEC threshold) on a home energy rating. A Certified Home Energy Rater must provide the home energy rating.</p>	Ongoing	4
Building America	<p>Building America is a private/public partnership that provides energy solutions for production housing. The Energy Office assists in disseminating the results of this effort to the Arizona market place.</p>	Ongoing	4
Governor's Smart Energy Usage Program	<p>"Conservation saves money, which makes sense during tight budget times. And decreased energy production saves water, which makes sense during a drought. These two reasons provide more-than-</p>	<p>The Smart Energy campaigns of 2001 and 2002 require state agencies to set thermostats up two degrees to save energy. As a result it is estimated that these conservation efforts</p>	4

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	<p>enough motivation to conserve this summer," Arizona Governor Jane Dee Hull said when announcing the Smart Energy: Phase II program for summer 2002.</p> <p>As a result of the success of the 2001 campaign, Governor Hull ordered all agencies under her jurisdiction to take a number of energy-saving steps for the second summer in a row. The Governor also asked that state residents voluntarily comply with the "Arizona Smart Energy: Phase II" program.</p> <p>As part of the Smart Energy: Phase II program, the Governor asked all state employees to implement the following energy saving measures:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Every agency will use power management tools like Energy Star to keep computers, monitors and other devices in stand-by mode when not in use. <input type="checkbox"/> Employees will turn off lights and office equipment, as much as possible, when they expect to be out of the office for more than one hour. <input type="checkbox"/> Agencies will reduce all lighting that does not affect productivity, health or safety. <input type="checkbox"/> Thermostats in all state-controlled facilities, will be increased during the months of June through 	<p>reduced energy usage from 7 to 10 percent and saved the state \$115,000 in utility bills during the summer of 2001 The campaign also called upon Arizonans to do their part. "Two Degrees - No Sweat" encouraged Arizonans to save energy by raising thermostats two degrees.</p>	

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	<p>September by two degrees or brought within the 76-79 degrees F range, whichever is greater.</p> <p><input type="checkbox"/> Agencies will implement a professional, casual-dress policy from June through September, consistent with the type of work being performed.</p>		