

CITY OF FLAGSTAFF SUSTAINABILITY PROGRAM

NORTHERN ARIZONA ENERGY PROGRAMMING RESOURCE GUIDE



211 W ASPEN AVE
FLAGSTAFF, AZ 86001

NORTHERN ARIZONA ENERGY PROGRAMMING RESOURCE GUIDE

Energy use in northern Arizona has considerable effects on the economy, quality of life and environment. The Northern Arizona Energy Programming Resource Guide provides a comprehensive review of energy efficiency services and initiatives available to businesses, residents, non profits and government entities. The guide is divided into the following counties: Mohave County, Coconino County, Navajo County and Apache County.

TABLE OF CONTENTS

MOHAVE COUNTY	3-7
COCONINO COUNTY	7-11
NAVAJO COUNTY	11-16
APACHE COUNTY	16-17
TAX CREDITS AND INCENTIVES.....	17-21

MOHAVE COUNTY

Mohave County is the second largest county by area in the state, measuring 13,479 square miles of desert, along with the Colorado River and two reservoirs. Mohave County's three largest cities include: Kingman, Bullhead City and Lake Havasu City. The major industries of Mohave County are retail trade, health care and social assistance and construction.¹ Mohave County has a population of 200,186.² According to the 2009 census, Kingman houses 14% of Mohave County's total population, 20% is in Bullhead City and 28% of the population is in Lake Havasu City.³

RESIDENTIAL ENERGY PROGRAMS

UNISOURCE BRIGHTSAVE HOME PROGRAM (ELECTRIC)

Program: Rebates for increased residential energy efficiency including new high efficiency furnaces, new high efficiency gas storage hot water heaters, duct sealing, insulation and air sealing.

Eligibility: Must be UniSource Energy Services electric customer residing in the UniSource service territory.

Cost: Costs vary depending on incentive chosen. The following summarizes the caps on the different incentives:

- Heating and cooling equipment replacement capped at \$250
- Heating and cooling early retirement and replacement capped at \$900
- Duct sealing: 50% of installed cost up to \$350 for prescriptive repairs, or 50% of installed cost of up to \$650 for performance repairs
- Air sealing: 50% of installed costs up to \$250
- Air sealing with attic insulation: 50% of installed costs up to \$800
- Shade screens or solar window film: \$1 per square foot installed up to \$250

Contact: Phone: 855-870-0050
Kingman Area Office
2498 Airway Avenue
Kingman, AZ 86409

Website: www.uesaz.com/green/brightsave
Lake Havasu Area Office
2749 Maricopa Avenue
Lake Havasu City, AZ 86406

UNISOURCE BRIGHTSAVE HOME PROGRAM (GAS)

Program: Rebates for increased residential energy efficiency including new high efficiency furnaces, new high efficiency gas storage hot water heaters, duct sealing, insulation and air sealing.

Eligibility: Must be UniSource Energy Services gas customer residing in the UniSource service territory.

Cost: Costs vary depending on incentive chosen. The following summarizes the caps on the different incentives:

¹ Cardon, D. (n.d.). Profile: Mohave County, Arizona. In Arizona Department of Commerce. Retrieved June 8, 2011, from <http://www.azcommerce.com/doclib/COMMUNE/Mohave%20County.pdf>

² U.S. Census Bureau. (n.d.). State and County Quickfacts. In Mohave County, AZ. Retrieved July 12, 2011, from <http://quickfacts.census.gov/qfd/states/04/04015.html>

³ U.S. Census Bureau. (n.d.). American Fact Finder. In Population Finder. Retrieved July 12, 2011, from <http://factfinder.census.gov/servlet/SAFFPopulation>

The following rebates and incentives are available to UES gas customers*.

- High efficiency furnace replacement: **\$300 to \$500**
- High efficiency gas water heater: **\$50**
- Duct sealing: 50% of installed cost up to **\$350** for prescriptive repairs, or 50% of installed cost of performance repairs up to **\$550**
- Air sealing: 50% of installed cost up to **\$250**
- Air sealing and attic insulation: 50% of installed cost up to **\$800**
- For additional information on tax credits, please see the [Federal Residential Energy Efficiency Tax Credit](#) information

*A detailed list of incentives, requirements, eligibility and maximum level of incentives will be provided to you on the day of your BrightSave Home energy analysis.

Contact: Phone: 855-870-0050
Kingman Area Office
2498 Airway Avenue
Kingman, AZ 86409

Website: www.uesaz.com/green/brightsave
Lake Havasu Area Office
2749 Maricopa Avenue
Lake Havasu City, AZ 86406

UNISOURCE TREES FOR YOU PROGRAM

Program: Rebates for the purchase of two qualified desert-adapted shade trees. Homes built before 1980 or homes with single-pane windows can receive up to four qualified desert-adapted trees: mesquite, blue palo verde, desert willow, chitalpa and desert museum.

Eligibility: Must be a UniSource Energy Services Electric customer, must plant trees within 15 feet of the structure on the west, east or south side, must agree to hold UniSource Energy Services harmless from all liability associated with the tree or tree planting, must plant trees at least 10 feet from sewer lines, 5 feet from water lines and 3 feet from utility lines, must not plant under any overhead utility lines and must not plant in public right-of-way without a permit and Blue Stake clearance.

Cost: Customers receive the rebate in form of a credit on their UniSource Energy Services bill for up to \$15.00 for each five gallon or larger tree purchased.

Contact: Phone: 877-837-4968 Website: www.uesaz.com/green/home/treesforyou.asp
UniSource Energy Services Trees for You Program
Mail Stop DS 502, P.O. Box 711
Tucson, AZ 8570

UNISOURCE SOLAR HOT WATER AND SPACE HEATING

Program: Up front incentives for solar hot water and space heating in the form of a one time payment of \$750 plus \$0.25 per kilowatt hours to a maximum of \$1,750. The customer contacts one of the following approved contractors who will fill out the UniSource Solar Hot Water and Space Heating application. A UniSource agent will review the application for eligibility.

Eligibility: Must be a UniSource Energy Services gas or electric customer, the solar hot water/space heating system must be installed at a UniSource Energy Services service address, must purchase and install a qualified solar hot water/space heating system and the system must be located within in the UniSource certified service territory.

UniSource Contact: Phone: Kingman 928-681-8913 Lake Havasu City 928-505-7002
Website: <http://www.uesaz.com/Green>
<http://www.uesaz.com/Docs/RESTDocs/SolarWaterHeaterInstallers.pdf>

WESTERN ARIZONA COUNCIL OF GOVERNMENTS WEATHERIZATION PROGRAM

Program: The program offers insulation, shading sun-exposed windows, air leak control measures, testing and maintenance of heating and cooling systems, duct sealing, installation of general energy and water efficiency measures as well as any additional energy conservation upgrades as identified by the energy auditor.

Eligibility: Must meet the following income based requirements:

- A family of 1 will have an annual income of no more than \$21,660
- A family of 2 will have an annual income of no more than \$29,140
- A family of 3 will have an annual income of no more than \$36,620
- A family of 4 will have an annual income of no more than \$44,100
- For each additional member add \$7,480

Cost: No cost

Contact: Phone: 928-782-1886 Website: www.wacog.com
Western Arizona Council of Governments (WACOG)
208 N 4th Street
Kingman, AZ 86401

MOHAVE ELECTRIC COOPERATIVE – HEAT PUMP REBATE PROGRAM

Program: Rebates for qualifying heat pump systems that are 2 tons or larger.

Cost: Available rebates include:

- Heat pump (standard upgrade) up to \$150
- Heat pump (16 SEER or higher) up to \$200
- Heat pump (17 SEER or higher) up to \$250

Eligibility: Must be a Mohave Electric Cooperative customer and submit a copy of the equipment sales invoice or purchase order along with the rebate application.

Contact: Phone: 928-763-1100
Website: www.mohaveelectric.com
Mohave Electric Cooperative
928 Hancock Road
PO Box 1045
Bullhead City, AZ 86430

MOHAVE ELECTRIC COOPERATIVE – RENEWABLE ENERGY INCENTIVE PROGRAM

Program: Incentives to install photovoltaic and wind system on homes. Rebates for solar water heating are available only for residential systems.

Cost: Varies depending on incentive and system installed. The following summarizes the caps on the incentives: photovoltaic and wind systems 5 kilowatts and smaller receive \$2.00/watt, systems great than 5 watts up to 50 kilowatts receive \$2.00/W for the first 5 kilowatts then \$1.50 for each additional watt. Incentives of up to \$30,000 or 40% of cost, whichever is less.

Eligibility: Must be a Mohave Electric Cooperative customer. Must submit the application packet and corresponding forms.

Contact: Phone: (928) 758-0539 Email: energysavings@mohaveelectric.com
Website: <http://www.mohaveelectric.com>
Rebate Program
Mohave Electric Cooperative

Cost: Performance-Based Incentives provide customers with a long-term payment stream of from 10 to 20 years based upon customer selection. In turn the customer would sign a credit purchase agreement assigning UES the REC for the same number of years. Customer must cover at least 15% of total project costs.

Contact: Phone: Kingman 928-681-8913 Lake Havasu City 928-505-7002
Website: <http://www.uesaz.com/Green/Business>

UNISOURCE SOLAR DAYLIGHTING PROGRAM

Program: Solar daylighting is the use of natural light to illuminate interiors of buildings while reducing heat or energy produced from traditional lighting sources. The program offers incentives for high-performance skylights and daylighting control systems. Daylighting control systems consist of lighting and occupancy sensors to adjust the amount of light in the work space. The customer contacts one of the following approved contractors who will fill out the UniSource Solar Daylighting Program application. A UniSource agent will then review the application for eligibility.

Eligibility: Customer must install a qualified skylight or daylighting controls system, must be a UniSource Energy Services customer and the daylighting system must be installed at a UniSource Energy Services service address.

Cost: Once the UniSource Energy Services tax credits and incentives have been applied the customer must contribute at least 15% of the project cost.

Contact: Phone: Kingman 928-681-8913 Lake Havasu City 928-505-7002
Website: <http://www.uesaz.com/Green/Business>

UNISOURCE COMMERCIAL SOLAR POOL HEATING SYSTEMS

Program: Incentives for payments towards commercial solar pool heating systems.

Eligibility: Solar pool heating system must be installed at a UniSource Energy Services address, must purchase and install a qualifying solar pool heating system and must be a non-residential UniSource Energy Services customer and the solar pool heating system.

Cost: Incentive of \$750 plus \$0.50/kWh to a maximum of \$200,750. Customer must contribute at least 15% of the commercial solar pool heating systems project total cost.

Contact: Phone: Kingman – 928-681-8913 Lake Havasu City – 928-505-7002
Website: <http://www.uesaz.com/Green/Business>
Energy Services
c/o UNS Electric, Inc
PO Box 3099
Kingman, AZ 86402

COCONINO COUNTY

With 18,661 square miles, Coconino is the largest county in Arizona and the second largest in the United States. It is characterized by rugged mountains, deep canyons and thick forests including Grand Canyon National Park. The major industries of Coconino County are accommodation and food services, education services and public administration.⁴ Coconino County has a population of 134,421 people. According to the 2009 census, the largest cities by population in Coconino County

⁴ Cardon, D. (n.d.). Profile: Coconino County, Arizona. In Arizona Department of Commerce. Retrieved June 8, 2011, from <http://www.azcommerce.com/doclib/commune/coconino%20county.pdf>

are Flagstaff with 43%, Sedona with 19%, Page encompassing 12% and Williams with 5.5% of the Coconino County's total population.⁵

RESIDENTIAL ENERGY PROGRAMS

FLAGSTAFF RESIDENTIAL ENERGY RETROFIT PROGRAM

Program: Residential energy retrofit services offered to help Flagstaff residents save money on utility bills through increased energy efficiency. Services may include: comprehensive energy audit of the home, carbon monoxide safety testing, furnace inspection as well as the installation of: carbon monoxide detectors, compact fluorescent light bulbs, high efficiency water fixtures, insulation of first five feet of hot water heater line, HVAC filter replacement, weather stripping, caulking, plumbing penetrations, outlet gaskets and duct sealing. Estimated cost of all services is \$1,250.

Eligibility: Residence must be in Flagstaff city limits, must be primary residence, residents must have occupied home for at least 12 months, renters must obtain property manager authorization, resident must demonstrate legal US residency and the natural gas and electric utilities must be in residents name for at least 12 months.

Cost: The fee for service is determined by an income based sliding scale. The following are the costs for the retrofit program:

- Income of \$0.00 – 49,000 will pay \$25.00
- Income of \$50,000 – 64,999 will pay \$125.00
- Income of \$65,000 – 64,999 will pay \$375.00
- Income of \$80,000 + will pay \$625.00

Contact: Phone: 928-213-3608 Email: sustainability@flagstaffaz.gov
Website: www.flagstaff.az.gov/homes
City of Flagstaff
211 W Aspen Avenue
Flagstaff, AZ 86001

UNISOURCE BRIGHTSAVE HOME PROGRAM (GAS)

Program: Rebates for increased residential energy efficiency including new high efficiency furnaces, new high efficiency gas storage hot water heaters, duct sealing, insulation and air sealing.

Eligibility: Must be UniSource Energy Services gas customer residing in the UniSource service territory.

Cost: Costs vary depending on incentive chosen. The following summarizes the caps on the different incentives:

The following rebates and incentives are available to UES gas customers*.

- High efficiency furnace replacement: **\$300 to \$500**
- High efficiency gas water heater: **\$50**
- Duct sealing: 50% of installed cost up to **\$350** for prescriptive repairs, or 50% of installed cost of performance repairs up to **\$550**
- Air sealing: 50% of installed cost up to **\$250**
- Air sealing and attic insulation: 50% of installed cost up to **\$800**

⁵ U.S. Census Bureau. (n.d.). American Fact Finder. In Population Finder. Retrieved July 12, 2011, from <http://factfinder.census.gov/>

- For additional information on tax credits, please see the [Federal Residential Energy Efficiency Tax Credit](#) information

*A detailed list of incentives, requirements, eligibility and maximum level of incentives will be provided to you on the day of your BrightSave Home energy analysis.

Contact: Phone: 855-870-0050 Website: www.uesaz.com/green/brightsav
 Kingman Area Office Lake Havasu Area Office
 2498 Airway Avenue 2749 Maricopa Avenue
 Kingman, AZ 86409 Lake Havasu City, AZ 86406

APS HOME PERFORMANCE WITH ENERGY STAR CHECKUP

Program: Energy assessments of the residence followed by recommendations for energy efficiency improvements. Rebates for improvements include: sealing ductwork, mitigation of air leaks, attic insulation, shade screens, lighting as well as replacing the heating and cooling system, hot water heater or appliances with more energy efficient options.

Eligibility: Must be an APS customer residing in the APS service territory

Cost: \$99 for the initial energy performance assessment, other costs vary depending on rebates chosen. The following summarizes the caps on the different incentives:

- Duct sealing capped at \$250
- Air leak sealing capped at \$250
- Attic insulation capped at \$250
- Shade screens capped at \$250
- Heating and cooling systems capped at \$525
- Hot water heater rebates and tax credits can save up to 80% on installation

Contact: Phone: 877-850-8358 Website: www.aps.com/checkup
 APS Williams Office APS Flagstaff Office
 217 W Route 66 2250 East Huntington Drive
 Williams, AZ 86046 Flagstaff, AZ 86004-8931

COCONINO COUNTY RESIDENTIAL ENERGY EFFICIENCY RETROFIT PROGRAM

Program: Residential energy retrofit services offered to help residents of Coconino County save money on utility bills through increased energy efficiency. Energy retrofit services include the installation of: carbon monoxide detectors, compact fluorescent light bulbs, high efficiency water fixtures, insulation of first five feet of hot water heater line, HVAC filter replacement, weather stripping and caulking.

Cost: None

Eligibility: Requirements include: Residence is within Coconino County outside of Flagstaff city limits, must be a primary residence, renters need to obtain property manager authorization, resident must demonstrate legal US residency. Income based requirements:

- A family of 1 will have an annual income of no more than \$33,040
- A family of 2 will have an annual income of no more than \$37,760
- A family of 3 will have an annual income of no more than \$42,480
- A family of 4 will have an annual income of no more than \$47,200

Contact: Phone: 928-679-8167 or 1-877-679-7425
 Email: energyconservation@coconino.az.gov
 Coconino County

2625 N. King Street CS 1036
Flagstaff, AZ 86004

NORTHERN ARIZONA COUNCIL OF GOVERNMENTS WEATHERIZATION ASSISTANCE PROGRAMS

Program: Services include an energy audit consisting of carbon monoxide testing, checking insulation and ductwork, measuring air flow and air pressure. Repairs might include: increasing ventilation between rooms, insulation, weather stripping, caulking, broken glass/window/door replacement, installation of interior storm windows, heating and cooling equipment repair or replacement and roof repairs.

Eligibility: Requirements include: Residence is within Coconino, Apache or Navajo county, renters must obtain property manager authorization, residence is not designated for clearance or acquisition within 12 months and resident must demonstrate legal US residency. Income based requirements:

- A family of 1 will have an annual income of no more than \$21,660
- A family of 2 will have an annual income of no more than \$29,140
- A family of 3 will have an annual income of no more than \$36,620
- A family of 4 will have an annual income of no more than \$44,100
- For each additional member add \$7,480

Cost: None

Contact: Phone: 928-774-3756 or 1-877-521-3500

Website: www.nacog.org

NACOG Weatherization

2463 N Walgreens Street

Flagstaff, AZ 86004

COCONINO COUNTY SUSTAINABLE BUILDING PROGRAM

Program: Provides sustainable building consultation, resources, education and code support through sustainable building plan review prior to submission of building permits including code support for alternative building designs, an award program available to buildings and homes that meet the minimum requirements of the program's climate specific checklist, resources on sustainable building products, methods and services as well as through educational opportunities.

Cost: No program fee

Eligibility: Must be a resident of Coconino County.

Contact: Phone: 928-679-8853

Email: aacheson@coconino.az.gov

Website: coconino.az.gov/sustainablebuilding

COMMERCIAL/NON-PROFIT/SCHOOLS ENERGY PROGRAMS

UNISOURCE COMMERCIAL ENERGY SOLUTIONS PROGRAM (GAS)

Program: Replaces inefficient natural gas fueled equipment with high-efficiency equipment. Incentives are provided for equipment commonly installed in the following five categories: furnaces, space heating, process boilers, water heaters and high efficiency griddles

Cost: Non-residential UniSource customers can receive up to \$8,000 per customer per calendar year for equipment installed; K-12 school districts can receive up to \$25,000 per calendar year.

Eligibility: Must be a non-residential UniSource Energy Services gas customer. Individual customer's rate schedule determines initial program eligibility. Energy efficient equipment purchased or work conducted prior to February 27, 2008 is not eligible for an incentive.

Contact: Phone: 866-324-5506 Website: www.uesaz.com
UNS Gas Commercial Energy Solutions
2001 North 3rd Street, Suite 106
Phoenix, AZ 85004

APS SOLUTIONS FOR BUSINESS PROGRAM

Program: Offers prescriptive, custom and technical assistance incentives to business customers for energy efficiency. Prescriptive incentives are available for equipment upgrades to lighting, cooling, HVAC testing and repair, refrigeration and motors, for retrofitting, major renovation or new construction. Custom Incentives are available for retrofit, major renovation and new construction measures not available through prescriptive incentives. Technical assistance and energy study incentives are available for customers to use in order to have design assistance, commission and retro commissioning for new or existing business facilities and for energy feasibility studies.

Eligibility: The “Express Solutions” is available to all schools in the APS service territory regardless of size and to APS business customers with a monthly per-site demand of 400 kW or less. Any non-residential customer contributing to the Systems Benefit charge or the Demand Side Management Cost Adjustment charge, owners of non-residential buildings in the APS service territory that installs a qualifying energy efficiency measure resulting in lower energy use for the tenant (also an APS customer) the building qualifies.

Cost: Cost varies on incentives. The following summarizes incentive caps on the different measures:

- Prescriptive Retrofit capped at 75% of incremental measure cost
- Prescriptive New Construction capped at 75% of incremental measure cost
- Express Solutions Measures capped at 90% of incremental measure cost
- Custom Retrofit capped at 75% of incremental measure cost
- Custom New Construction capped at 75% of incremental measure cost
- Technical Assistance capped at 50% of study cost up to \$10,000
- Technical Assistance for retro-commissioning capped at 75% up to \$20,000
- EIS is capped at 75% up to \$12,000

Contact: Phone: 866-277-5605 Website: www.aps.com
APS Solutions for Business
2001 North 3rd Street Suite 106
Phoenix, AZ 85004

NAVAJO COUNTY

Navajo County is divided into two distinct parts by the Mogollon Rim. The high country in the northern part of the county is arid and desert-like while the southern part is a heavily wooded, rocky mountain area. Navajo County’s principle industries are mining and construction, educational and health services and professional and business services.⁶ Navajo County has a total population of

⁶ Cardon, D. (n.d.). Profile: Navajo County, Arizona. In Arizona Department of Commerce. Retrieved June 8, 2011, from <http://www.azcommerce.com/doclib/COMMUNE/Navajo%20County.pdf>

107,449.⁷ The three most populous areas of Navajo County are Fort Apache which encompasses 12%, Show Low with 11% and Winslow with 9% of the county's total population.⁸107,449.⁹

RESIDENTIAL ENERGY PROGRAMS

UNISOURCE BRIGHTSAVE HOME PROGRAM (GAS)

Program: Rebates for increased residential energy efficiency including new high efficiency furnaces, new high efficiency gas storage hot water heaters, duct sealing, insulation and air sealing.

Eligibility: Must be UniSource Energy Services gas customer residing in the UniSource service territory.

Cost: Costs vary depending on incentive chosen. The following summarizes the caps on the different incentives:

The following rebates and incentives are available to UES gas customers*.

- High efficiency furnace replacement: \$300 to \$500
- High efficiency gas water heater: \$50
- Duct sealing: 50% of installed cost up to \$350 for prescriptive repairs, or 50% of installed cost of performance repairs up to \$550
- Air sealing: 50% of installed cost up to \$250
- Air sealing and attic insulation: 50% of installed cost up to \$800
- For additional information on tax credits, please see the [Federal Residential Energy Efficiency Tax Credit](#) information

*A detailed list of incentives, requirements, eligibility and maximum level of incentives will be provided to you on the day of your BrightSave Home energy analysis.

Contact: Phone: 855-870-0050 Website: www.uesaz.com/green/brightsave
Kingman Area Office Lake Havasu Area Office
2498 Airway Avenue 2749 Maricopa Avenue
Kingman, AZ 86409 Lake Havasu City, AZ 86406

Contact: Phone: 855-870-0050 Website: www.uesaz.com/green/brightsave
Show Low Area Office
1480 N 16th Street
Show Low, AZ 85901

APS HOME PERFORMANCE WITH ENERGY STAR CHECKUP

Program: The customer contacts one of the following approved contractors to receive an energy assessment of the residence which is followed by recommendations for energy efficiency improvements. Rebates for improvements include: sealing ductwork, mitigation of air leaks, attic insulation, shade screens, lighting as well as replacing the heating and cooling system, hot water heater or appliances with more energy efficient options.

Eligibility: Must be an APS customer residing the APS service territory

⁷ U.S. Census Bureau. (n.d.). State and County Quickfacts. In Navajo County, AZ. Retrieved July 12, 2011, from <http://quickfacts.census.gov/qfd/states/04/04017.html>

⁸ Cardon, D. (n.d.). Profile: Navajo County, Arizona. In Arizona Department of Commerce. Retrieved June 8, 2011, from <http://www.azcommerce.com/doclib/COMMUNE/Navajo%20County.pdf>

⁹ U.S. Census Bureau. (n.d.). State and County Quickfacts. In Navajo County, AZ. Retrieved July 12, 2011, from <http://quickfacts.census.gov/qfd/states/04/04017.html>

Cost: \$99 for the initial energy performance assessment, other costs vary depending on rebates chosen. The following summarizes the caps on the different incentives:

- Duct sealing capped at \$250
- Air leak sealing capped at \$250
- Attic insulation capped at \$250
- Shade screens capped at \$250
- Heating and cooling systems capped at \$525
- Hot water heater rebates and tax credits can save up to 80% on installation

Contact: Phone: 877-850-8358

Website: www.aps.com/checkup

NAVAJO TRIBAL UTILITY AUTHORITY SOLAR ENERGY PROGRAM

Program: Installation of solar photovoltaic systems on residences that do not have access to the electric power grid.

Cost: There is no fee for installation, depending on the system chosen there will either be a monthly fee until the 15 year contract between customer and Navajo Tribal Authority is completed, or a tariff rate will be charged monthly to the customer.

Eligibility: Customers must complete a Residential Service Application and provide it along with the following documents: home site lease, income verification, map showing location of residence, certificate of housewiring compliance, customer meter request, service entrance checklist and utilities right of way agreement.

Contact: Navajo Utility Tribal Authority

Phone: 928-729-6263

Terry Battiest, Renewable Energy Specialist

Post Office Box #170

Fort Defiance, AZ 86504

Terry Battiest

Email: terryb@ntua.com

SOUTHWEST GAS ARIZONA HIGH-EFFICIENCY NATURAL GAS RESIDENTIAL REBATE PROGRAM

Program: Offers rebates on the purchase of qualifying natural gas storage and tankless water heaters, clothes washers, natural gas clothes dryers, programmable thermostats and smart low-flow showerheads

Cost: Varies depending on rebate chosen. The following summarizes the caps on the different incentives:

- Natural gas storage water heater capped at \$75
- Natural gas tankless water heater capped at \$200
- Clothes washer capped at \$95
- Natural gas clothes dryer capped at \$30
- Programmable thermostat capped at \$20
- Smart low flow showerhead capped at \$20

Eligibility: Must be a Southwest Gas natural gas customer, rebate amount cannot exceed purchase price, customers may only qualify for 2 rebates, all applications must be post marked by December 15, 2011 and must purchase qualifying equipment. Along with the completed, signed rebate application that includes the customer's Southwest Gas account number. Must submit a copy of the invoice(s) (or receipt) that lists where the equipment was purchased, the date(s) of purchase, and model number(s). Appliance(s) must be installed prior to the payment of any rebate.

Contact: Phone: 1-866-802-7790 Email: swgrebates@egia.org
Website: <http://www.conservativerrebates.com/programs>
Arizona High-Efficiency Natural Gas Residential Rebate Program
3800 Watt Avenue Suite 105
Sacramento, CA 95821

NORTHERN ARIZONA COUNCIL OF GOVERNMENTS WEATHERIZATION ASSISTANCE PROGRAMS

Program: Services include an energy audit consisting of carbon monoxide testing, checking insulation and ductwork, measuring air flow and air pressure. Repairs might include: increasing ventilation between rooms, insulation, weather stripping, caulking, broken glass/window/door replacement, installation of interior storm windows, heating and cooling equipment repair or replacement and roof repairs.

Eligibility: Residence must be within Coconino, Apache or Navajo county, renters must obtain property manager authorization, residence is not designated for clearance or acquisition within 12 months and resident must demonstrate legal US residency.

Income based requirements:

- A family of 1 will have an annual income of no more than \$21,660
- A family of 2 will have an annual income of no more than \$29,140
- A family of 3 will have an annual income of no more than \$36,620
- A family of 4 will have an annual income of no more than \$44,100
- For each additional member add \$7,480

Cost: None

Contact: Phone: 928-774-3756 or 1-877-521-3500 Website: www.nacog.org
NACOG Weatherization
2463 N Walgreens Street
Flagstaff, AZ 86004

COMMERCIAL/NON-PROFIT/SCHOOLS ENERGY PROGRAMS

SOUTHWEST GAS HIGH-EFFICIENCY NATURAL GAS COMMERCIAL REBATE PROGRAM

Program: Rebates on the purchase and installation of new, qualifying natural gas storage and tankless water heaters, griddles, steamers, fryers, and combination ovens.

Cost: Varies depending on rebate chosen. The following summarizes the caps on different rebates:

- Storage water heater rebate of 50% of purchase price up to \$1,200
- Tankless water heater rebate of 50% of purchase price up to \$300
- Griddle rebate of 50% of purchase price up to \$1,500
- Steamer rebate of 50% of purchase price up to \$1,100
- Fryer rebate of 50% of purchase price up to \$1,800
- Combination oven rebate of 50% of purchase price up to \$3,000

Eligibility: Must be a Southwest Gas natural gas customer, must purchase qualifying equipment, rebate cannot exceed purchase price and all applications must be post marked by December 15, 2011. Submit a copy of the invoice(s) (or receipt) that lists where the equipment was purchased, the date(s) of purchase, and model number(s). Appliance(s) must be installed prior to the rebate.

Contact: Phone: 1-866-802-7790 Email: swgrebates@egia.org
Website: <http://www.conservationrebates.com/programs>
Arizona High-Efficiency Natural Gas Residential Rebate Program
3800 Watt Ave. Ste 105
Sacramento, CA 95821

SOUTHWEST GAS LARGE COMMERCIAL ENERGY EFFICIENT BOILER PROGRAM

Program: Offers equipment and boiler maintenance services including: boiler tune-up, modulating burner control, O₂ trip control pad, steam trap survey and steam trap replacement/part.

Cost: Varies depending on rebate chosen. The following summarizes the caps on different rebates:

- Boiler tune up rebate of 75% of total cost up to \$375
- Modulating burner control rebate of 25% of total cost up to \$5,000
- O₂ trim control pad rebate of 25% of total cost up to \$5,000
- Steam trap survey rebate of 25% of total cost up \$250
- Steam trap replacement part rebate of up 25% of total cost up to \$250 per trap with a maximum \$10,000 per facility
- New boiler rebate of 50% of total costs or \$20,000

Eligibility: Must be a large commercial Southwest Gas natural gas customer, applications must be post marked by December 15, 2011. Submit a copy of your invoice(s) (or receipt) that lists where the equipment was purchased, the date(s) of purchase, and model number(s). Appliance(s) must be installed prior to the payment of any rebate.

Contact: Phone: 1-800-654-2765 Email: kevin.camp@swgas.com
Website: <http://www.swgas.com/efficiency/az/boiler.php>
Southwest Gas Corporation
P.O. Box 98510, LVB-105
Las Vegas, NV 89193-851

SOUTHWEST GAS COMBINED HEAT AND POWER PROGRAM

Program: Incentives for the installation of combined heat and power systems.

Cost: Varies depending on the incentive. The following summarizes the caps on different incentives:

- Minimum fuel efficiency of 70% will receive \$500/kW
- Minimum fuel efficiency of 65% will receive \$450/kW
- Minimum fuel efficiency of 60% will receive \$400/kW

Eligibility: Must be an industrial or commercial Southwest Gas customer in Arizona

Contact: Phone: 520-794-643 Email: kevin.camp@swgas.com
Website: <http://www.swgas.com/efficiency/az/boiler.php>
Kevin Camp
Southwest Gas Corporation
P.O. Box 98510, LVB-105
Las Vegas, NV 89193-8510

UNISOURCE COMMERCIAL ENERGY SOLUTIONS PROGRAM (GAS)

Program: Replaces inefficient natural gas fueled equipment with high-efficiency equipment. Incentives are provided for equipment commonly installed in the following five categories: furnaces, space heating, process boilers, water heaters and high efficiency griddles.

Cost: Non-residential UniSource customers can receive up to \$8,000 per customer per calendar year for equipment installed; K-12 school districts can receive up to \$25,000 per calendar year.

Eligibility: Must be a non-residential UniSource Energy Services gas customer. A customer's rate schedule will determine initial program eligibility. Energy efficient equipment purchased, contracted for or work conducted prior to February 27, 2008 is not eligible for an incentive.

Contact: Phone: 866-324-5506 Fax: 1-866-277-5604

Website: www.uesaz.com

Email: commercialenergysolutions@us.kema.com

UNS Gas Commercial Energy Solutions

2001 North 3rd Street, Suite 106

Phoenix, AZ 85004

APS SOLUTIONS FOR BUSINESS PROGRAM

Program: Offers prescriptive, custom and technical assistance incentives to business customers for energy efficiency. Prescriptive incentives are available for equipment upgrades to lighting, cooling, HVAC testing and repair, refrigeration and motors, for retrofitting, major renovation or new construction. Custom Incentives are available for retrofit, major renovation and new construction measures not available through prescriptive incentives. Technical assistance and energy study incentives are available for customers to use in order to have design assistance, commission and retro commissioning for new or existing business facilities and for energy feasibility studies.

Eligibility: The "Express Solutions" is available to all schools in the APS service territory regardless of size and to APS business customers with a monthly per-site demand of 400 kW or less. Any non-residential customer contributing to the Systems Benefit charge or the Demand Side Management Cost Adjustment charge, owners of non-residential buildings in the APS service territory that installs a qualifying energy efficiency measure resulting in lower energy use for the tenant (also an APS customer) the building qualifies.

Cost: Cost varies on incentives chosen. The following summarizes the caps on the different incentives:

- Prescriptive Retrofit capped at 75% of incremental measure cost
- Prescriptive New Construction capped at 75% of incremental measure cost
- Express Solutions Measures capped at 90% of incremental measure cost
- Custom Retrofit capped at 75% of incremental measure cost
- Custom New Construction capped at 75% of incremental measure cost
- Technical Assistance capped at 50% of study cost up to \$10,000
- Technical Assistance for retro-commissioning capped at 75% up to \$20,000
- EIS is capped at 75% up to \$12,000

Contact: Phone: 866-277-5605

Website: www.aps.com

APS Solutions for Business

2001 North 3rd Street Suite 106

Phoenix, AZ 85004

APACHE COUNTY

Apache County is 11,216 square miles, made up of the White Mountains contrasted with dry plateaus. The total population of Apache County is 71,518¹⁰. The Apache and Navajo Indian reservations make up more than 65.4%, the cities of Eager and St. Johns make up 6% and 5% of the total population. The major industries in Apache County are private service providing, trade, transportation and utilities.¹¹

RESIDENTIAL ENERGY PROGRAMS

NAVAJO TRIBAL UTILITY AUTHORITY SOLAR ENERGY PROGRAM

Program: Installation of solar photovoltaic systems on residences that do not have access to the electric power grid.

Cost: There is no fee for installation, depending on the system chosen there will either be a monthly fee until the 15 year contract between customer and Navajo Tribal Authority is completed, or a tariff rate will be charged monthly to the customer.

Eligibility: Customers must complete a Residential Service Application and provide it along with the following documents: home site lease, income verification, map showing location of residence, certificate of housewiring compliance, customer meter request, service entrance checklist and utilities right of way agreement.

Contact: Navajo Utility Tribal Authority
Phone: 928-729-6263
Terry Battiest, Renewable Energy Specialist
Post Office Box #170
Fort Defiance, AZ 86504

Terry Battiest
Email: terryb@ntua.com

NORTHERN ARIZONA COUNCIL OF GOVERNMENTS WEATHERIZATION ASSISTANCE PROGRAMS

Program: Services include an energy audit consisting of carbon monoxide testing, checking insulation and ductwork, measuring air flow and air pressure. Repairs might include: increasing ventilation between rooms, insulation, weather stripping, caulking, broken glass/window/door replacement, installation of interior storm windows, heating and cooling equipment repair or replacement and roof repairs.

Eligibility: Other eligibility requirements include: residence is within Coconino, Apache or Navajo county, renters must obtain property manager authorization, residence is not designated for clearance or acquisition within 12 months and resident must demonstrate legal US residency.

Income based requirements:

- A family of 1 will have an annual income of no more than \$21,660
- A family of 2 will have an annual income of no more than \$29,140
- A family of 3 will have an annual income of no more than \$36,620
- A family of 4 will have an annual income of no more than \$44,100

¹⁰ U.S. Census Bureau. (n.d.). State and County Quickfacts. In Apache County, AZ. Retrieved July 12, 2011, from <http://quickfacts.census.gov/qfd/states/04/04001.html>

¹¹ Cardon, D. (n.d.). Profile: Apache County, Arizona. In Arizona Department of Commerce. Retrieved June 8, 2011, from <http://www.azcommerce.com/doclib/commune/apache%20county.pdf>

- For each additional member add \$7,480

Cost: None

Contact: Phone: 928-774-3756 or 1-877-521-3500 Website: www.nacog.org
NACOG Weatherization
2463 N Walgreens Street
Flagstaff, AZ 86004

TAX CREDITS AND INCENTIVES

ENERGY STAR PORTFOLIO MANAGER

Program: This is an electronic tool offered by the U.S. Department of Energy and the US Environmental Protection Agency (EPA) to benchmark building energy performance, assesses energy management goals and identifies strategies for saving energy and water. Through the benchmarking process, buildings may have the opportunity for EPA recognition for building energy performance.

Eligibility: More than 50% of the building must be defined as one of the following: bank/financial institution, courthouse, data center, hospital, hotel, place of worship, K-12 school, medical office, municipal wastewater treatment plant, office, residence hall/dormitory, retail store, senior care facility, supermarket and a refrigerated or non-refrigerated warehouse.

Cost: None

Contact: Website: www.energystar.gov/index.cfm?c=evaluate_performance.bus_portfoliomanager

RESIDENTIAL

QUALIFYING WOOD STOVE DEDUCTION

Program: Incentive that allows Arizona taxpayers to deduct the cost of converting an existing wood fireplace to a qualifying wood stove.

Cost: The cost to purchase and install all necessary equipment is tax deductible, up to a maximum \$500 deduction.

Eligibility: Qualifying wood stoves must meet the standards of performance for new wood heaters manufactured after July 1990, or sold after July 1992. This deduction is for taxable years after December 31, 1993.

Contact: Phone: 602-255-3381 Phone: 800-352-4090
Website: www.revenue.state.az.us
Arizona Department of Revenue
1600 W. Monroe
Phoenix, AZ 85007

ENERGY STAR 2011 FEDERAL TAX CREDITS FOR CONSUMER ENERGY EFFICIENCY

Program:

- 10% of cost up to \$500 or a specific amount from \$50 - \$300 for the following: biomass stove, heating, ventilating and air conditioning (HVAC), insulation, metal and/or asphalt roofs, non-solar water heaters, windows, doors and skylights

- 30% of cost with no upper limit for geothermal heat pumps, small residential wind turbines and solar energy systems.
- 30% of the cost, up to \$500 per .5 kW of power capacity for residential fuel cell and microturbine systems.

Eligibility: Must be an existing home and principal residence. New construction and rentals do not qualify.

Cost: Dependant on tax credit and measures completed.

How to file: To claim the tax credit for products "placed in service" in 2011, file the 2011 IRS Form 5695 and submit it with 2011 taxes (by April 15, 2012). On the 1040 form the residential energy tax credit (from Form 5695) is claimed on line 52. Save receipts and the Manufacturer's Certification Statement.

Contact: http://www.energystar.gov/index.cfm?c=tax_credits.tx_index

RESIDENTIAL SOLAR AND WIND ENERGY SYSTEMS FEDERAL TAX CREDIT

Program: Incentive for individual taxpayers installing a solar or wind energy device in the amount of 25% of the cost with a \$1,000 maximum limit regardless of the number of energy devices installed. Qualifying systems include solar domestic water heating systems, solar swimming pool and spa heating systems, photovoltaic systems, photovoltaic phones and street lights, passive solar building systems, solar daylighting systems, wind turbines and wind powered pumps.

Cost: Varies depending on cost of the system.

Eligibility: System must be installed at taxpayer's residence, must claim the credit in the same year the device or system is installed. The system must be new, must carry a minimum 2 year warranty on collectors, heat exchangers and storage units, while other equipment must carry a minimum 1 year warranty.

Contact: Phone: 602-255-3381

Phone: 800-352-4090

Website: www.revenue.state.az.us

Arizona Department of Revenue

1600 W. Monroe

Phoenix, AZ 85007

COMMERCIAL/NON-PROFIT/SCHOOLS ENERGY PROGRAMS

TAX DEDUCTIONS FOR COMMERCIAL BUILDINGS

Program: Tax deductions of up to \$1.80 per square foot are available to owners or designers of new or existing commercial buildings that save at least 50% of the heating and cooling energy these areas: lighting, building envelope and heating, cooling and water heating. Partial deductions of up to \$.60 per square foot can be taken for measures affecting any one of the three previously addressed areas.

Eligibility: Available for systems "placed in service" from January 1, 2006 through December 31, 2013. Before claiming the deduction, the taxpayer must obtain a certification that the required energy savings will be achieved.

Cost: Varies depending on tax credit.

Tax Incentives Assistance Project Contact:

www.energytaxincentives.org/business/commercial_buildings.php

IRS Contact: <http://www.irs.gov/newsroom/article/0,,id=158395,00.html>

Program: 10% investment tax credit for the first 15 MW of combined heat and power (CHP) systems of smaller than 50 MW.

Eligibility: Systems must be in service between October 3, 2008 and December 21, 2016, must be the original constructor or user of the CHP property in the year the system becomes operational, the CHP system must be 60% efficient and produce at least 20% of its useful energy as electricity and at least another 20% as useful thermal energy.

Cost: Varies based on the system and amount of tax credit awarded.

Contact: www.energytaxincentives.org/business.chp.php

FEDERAL TAX DEDUCTIONS FOR ONSITE RENEWABLES

Program: Tax incentives for business owners for solar, wind and geothermal heat pump systems.

Cost: Varies based on the system and amount of tax credit awarded.

Eligibility for Solar Systems: Solar systems must use solar energy to generate electricity or heat/cool or provide hot water to a structure, or must illuminate the inside of a building through fiber-optic distributed sunlight. Solar systems must be certified for performance by the Solar Rating Certification Corporation or a comparable entity. At least half of the energy used by the system to heat water must be solar energy, hot tubs and swimming pools are not eligible. Photovoltaic systems must provide electricity for the building and must meet fire and electrical code requirements. The system must be placed in service from January 1, 2006 – December 31, 2016.

Eligibility for Small Wind Systems: Wind turbines with not more than 100 kW of nameplate capacity are eligible for a 30% investment tax credit. The system must be placed in service from January 1, 2006 – December 31, 2016.

Eligibility for Geothermal Systems: Must be a ground source heat pump with related equipment that is used to produce, distribute or use energy from a geothermal source, commercial customers receive a tax investment credit of 10% of the installed cost available through 2016.

Contact: www.energytaxincentives.org/business/renewables.php

Solar: www.seia.org

Wind: www.awea.org

FEDERAL TAX DEDUCTIONS FOR FUEL CELLS AND MICROTURBINES

Program: Tax credits for 30% of the cost of fuel cells and \$3,000 kW of power produced. Tax credits for 10% of cost of the microturbine and up to \$200 per kW of power produced.

Eligibility for Fuel Cells: system must have capacity of at least 0.5 kW, must be placed in service from now through December 31, 2016.

Eligibility for Microturbines: System must have an efficiency of at least 26% and must have a capacity of 2,000 kW or less, system must be placed in service from now through December 31, 2016.

Cost: Varies on the system and amount of tax credit awarded.

Contact: http://www.energytaxincentives.org/business/fuel_cells.php

NON-RESIDENTIAL SOLAR AND WIND STATE TAX CREDIT

Program: Arizona income tax credit offered to businesses that install one or more of the following qualifying systems: passive solar space heat, solar water heat, solar space heat, solar thermal electric, solar thermal process heat, photovoltaics, wind, solar cooling, solar pool heating and daylighting. The tax credit is available through December 31, 2012

Cost: Varies depending on system installed. The tax credit is equal to 10% of the installed cost of the solar energy device not to exceed \$25,000 in credits for one building in a single tax year and \$50,000 total credits per business per tax year.

Eligibility: Must be a non-residential facility, apply to the Arizona Department of Commerce for initial certification, submit separate applications for each building and submit a complete report once the system is operational

Contact: Phone: 602-771-1100 or 800-528-8421 Email: solarenergy@azcommerce.com
Website: www.azcommerce.com/Energy/
Arizona Department of Commerce
Business Development Finance
1700 West Washington St.
Phoenix, AZ 85007

RENEWABLE ENERGY PRODUCTION FEDERAL TAX CREDIT

Program: Commercial tax credit based on amount of electricity produced annually for a 10 year period on qualified renewable energy systems installed on or after December 31, 2010

Cost: Varies depending on system installed. Maximum tax credit allowed in any one year is \$2 million. Tax credit for wind and biomass systems is \$0.01 per kWh for the first 200,000 MWh. Tax credit for photovoltaic and solar thermal electric systems vary depending on the year of electricity production according to the following schedule:

- Year 1: \$0.04 per kWh
- Year 2: \$0.04 per kWh
- Year 3: \$0.035 per kWh
- Year 4: \$0.035 per kWh
- Year 5: \$0.03 per kWh
- Year 6: \$0.03 per kWh
- Year 7: \$0.02 per kWh
- Year 8: \$0.02 per kWh

Eligibility: Must be commercial property.

Contact: Phone: 602-255-3381 or 800-352-4090 Website: www.revenue.state.az.us/
Tax Assistance
Arizona Department of Revenue
1600 W Monroe
Phoenix, AZ 85007