



City of St. George

Energy Services Efficiency Program

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City of St. George
Energy Services Department
Efficiency Program
October 2008

The City of St. George Energy Services Department (SGESD) is pleased to offer an energy efficiency rebate program to residential customers. The program offers rebates to residential customers for cost-effective electrical efficiency improvement projects within their own home. **This program is open only to customers in the SGESD service territory.**

Program Overview

The SGESD efficiency rebate program is a demand-side management (DSM) opportunity offered by the City of St. George with the goal of achieving verifiable, cost-effective and long term electrical energy savings. This program can be modified or closed at any time.

The program requires customers to submit specific information for the project to be completed at their residence. Reduction in electrical use must be obtained through an improvement in efficiency and may be installed as part of a retrofit or new construction project.

This program will become effective as of January 8, 2009 and operate until budgeted funds are depleted. Rebates are available on a first come, first serve basis. Rebate requests under the New Residential Construction portion of this program require submittal and approval prior to proceeding. Projects submitted without pre-approval will not be considered for the program.

Qualifying Customers

To participate in the SGESD Residential Rebate Program a customer must be served by the SGESD and install a qualifying measure in a residential metered home. This program applies to single family residential units with up to a maximum of four townhouse units. Customers with questions regarding eligibility should contact the Conservation Coordinator via email at rene.fleming@sgcity.org or by phone at 435-627-4848.

Builders/developers may also participate in this program by implementing approved efficiency measures in projects with pre-approval of rebate amounts that will be available for the proposed project..

Qualifying Measures

New Residential Construction

Whole House Efficiency Package

The State has adopted the 2006 IECC standards. Builders that go beyond the minimum efficiencies in the building code standard will be eligible for the following rebates.

A rebate of electric impact fees of \$1,200 per home that has a HERS rating of 73 or lower with the use of an 80% efficient natural gas furnace. If a 90% efficient natural gas furnace is installed the HERS rating needed to qualify for this rebate program is a 67. This stipulation should not be construed to imply that a less efficient natural gas furnace is encouraged, but rather an indication of the goal of the program is to achieve a reduction in electrical demand. Builders are encouraged to contact Questar Gas regarding rebates available for high efficiency natural gas furnaces that would be in addition to rebates offered by the SGESD. To be eligible for the rebate a home would have to be verified by a third party inspection by a HERS certified inspector or a representative accredited by RESNET. A HERS rater may issue two different certificates, one for the overall rating of 67 and one that indicates the home complies with the parameters of the SGESD efficiency rebate program, showing a 73 HERS rating without the highly efficient(90%) natural gas furnace.

Eligible construction practices are listed below:

- Better-insulated foundations, walls, ceilings and attics that are inspected to assure proper installation and as detailed in the building design.
- Typical requirements for Energy Star and to meet this level of efficiency include:
 - ✓ Air sealing techniques on building shell
 - ✓ Proper insulation including air barrier and alignment (see Energy Star Thermal Bypass Inspection (TBI) checklist)
 - ✓ Proper sizing and installation of HVAC systems including Duct sealing to below 6% leakage. (ACCA manual J, S and D)

In Washington County, a typical home will require low E windows, exterior wall system exceeding R-15, attic insulation above R-38 (R-50) furnace above 90% AFUE and AC of 15 SEER or higher.

- Obtaining a HERS rating of 73 or lower can be met by combining selected efficiency improvement options.
 - ✓ Low E Windows
 - ✓ Exterior wall system exceeding R-15
 - ✓ Attic insulation above R-38
 - ✓ Furnace above 90% AFUE and AC of 15 SEER or higher
- These are not requirements but simply, recommendations to meet the requirements of a HERS 73. The rating is for the home as a system so individual components may have varying effects on each other and the overall efficiency of the home.

Specific Electrical Energy Efficiency Rebate Options

High-efficiency heating systems are encouraged, whether fueled by natural gas or electricity, however, this program focuses on a reduction in electrical demand, therefore, only efficiency upgrades affecting electrical use are eligible for a rebate from the SGESD. Natural Gas customers are encouraged to contact Questar Gas regarding the Thermwise program for rebates that may apply to natural gas efficiency improvements.

Other electrical efficiency measures are eligible for a rebate independent, but not in addition to obtaining a HERS rating of 73 or less. A maximum rebate of \$1,000 is allowed with the following options or combination thereof:

Central Air Conditioning (A/C) Systems

The following criteria must be met in order to qualify for a rebate of \$250

- SEER 15 or better A/C unit
- Proper placement of the unit – i.e. not in direct afternoon sunlight or some sort of shading to reduce afternoon heat.
- ACCA manual J heat load calculation
- ACCA manual S for proper equipment sizing
- ACCA manual D for proper duct design and installation
- Proper duct sealing as required by 2003 IRC section M1601.3.1

Proper routing of ducts, especially flex ducts to avoid tight radius bends or other restrictions, and sealing of the register boot to the wall are highly recommended.

Insulation

Based on the 2006 IECC Code in climate zone three (the zone that St. George is in) the recommended insulation levels for a wood frame wall is R13, the ceiling R value is R30. For purposes of this rebate measure, R values shall mean the wall as a system, not necessarily just the cavity insulation.

A rebate of \$150 per item or \$300 total is offered for an increase in insulation at or above the following levels.

- Attic insulation of R38 or better
- Exterior Wall Insulation of R19 or better

Insulation upgrades shall be installed to meet a grade I or grade II according to the Mortgage Industry National Home Energy Rating Systems Standards, Appendix A. Installations failing to meet this minimum will not be eligible for a rebate. The installation of insulation must be inspected by an approved inspector who may not be affiliated with the General Contractor or the Insulation Contractor or Company. A certified HERS rater is considered an approved inspector.

Attic insulation, in addition to meeting the grade I or grade II requirements must include installed depth measurement rulers for visually verifying the depth of the insulation material from accessible areas of the attic, and a certificate of insulation as required by 2003 IRC section N1101.3.1 insulation.

A certified inspection report is required verifying the insulation was installed to the levels specified and the installation was done appropriately for the type of insulation used.

Existing Residential Construction

Air Conditioning systems

A rebate of \$350 will be issued to a residential customer upgrading their A/C unit from a Seasonal Energy Efficiency Rating (SEER) 10 or lower to a SEER 15 or higher providing the following steps are taken:

- SEER 15 or better unit

- Proper placement of the unit – i.e. not in direct afternoon sunlight or some sort of shading to reduce afternoon heat.
- ACCA manual J heat load calculation
- ACCA manual S for proper equipment sizing
- ACCA manual D for proper duct design and installation
- Proper duct sealing as required by 2003 IRC section M1601.3.1

The City reserves the right to inspect the equipment and installation prior to approval of the rebate request.

Insulation

To be eligible for insulation rebates on existing construction, homeowners will have to have a pre-installation inspection verifying the current level of insulation. Verification of the amount of insulation can be done by the contractor doing the insulation upgrade. Documentation of the level of insulation prior to and post upgrade must be provided as part of the rebate application documentation. Rebates for increasing attic insulation levels in increments of R-19 or higher and exterior wall insulation in increments of R-11 or higher are available. Attic insulation levels of R-38 or higher and/or exterior wall insulation levels of R-19 or higher is not eligible for insulation upgrade rebates.

For customers served by Questar Gas, a rebate per square foot will be allowed for insulation upgrades to existing construction as listed below.

- Exterior Wall Insulation in increments of R-11 or higher - \$0.30 per square foot with a maximum rebate of 10,000 square feet of upgraded insulation
- Attic insulation in increments of R-19 or higher - \$0.20 per square foot with a max rebate for 1,450 square feet of upgraded insulation

For customers in “all electric homes” served by the SGESD a rebate per square foot will be allowed for insulation upgrades to existing construction as listed below.

- Exterior Wall Insulation in increments of R-11 or higher - \$0.40 per square foot with a maximum rebate of 10,000 square feet of upgraded insulation
- Attic insulation in increments of R-19 or higher - \$0.30 per square foot with a max rebate for 1,450 square feet of upgraded insulation

The rebate will be based on the square footage of insulation installed or the cost of the project, whichever is lower. Insulation installs must be completed by an approved contractor. Contractors on Questar Gas Thermwise program automatically qualify for the City’s program. Customers served by Questar Gas are encouraged to apply for the Thermwise program rebates as the City will rebate the difference in the cost of the job and the rebate available through Questar Gas up to a maximum of \$290.00 for attic insulation and \$3,000 for exterior wall insulation.

The change in rebate amounts is effective for work done May 1, 2009 or later and/or applications received June 1, 2009 or later.

The City reserves the right to inspect the insulation upgrades at its discretion prior to approving the rebate request.

Swimming Pool Pumps

This rebate is offered for existing and new pool construction. If you are filtering your pool with a single-speed pump and upgrade to an energy-efficient two-speed or variable-speed pump you may be eligible for a rebate.

- \$75 for efficient two-speed pump
- \$125 for efficient variable-speed pump

Pumps must be installed in single-family residential, in-ground swimming pool. The pump must be new, rebuilt pumps are not eligible for this program. There is a limit of one pump rebate per pool.

The City reserves the right to inspect the equipment and installation prior to approval of the rebate request.

Additional information on pool pumps.

Two-Speed Pumps are typically adequate for older pools. The two speeds of the motor are preset and cannot be adjusted. The high speed is used when more water flow is needed; for example using a pool cleaner, starting up your roof-mounted solar heater, or after back washing your Diatomaceous Earth (DE) or sand filter. Otherwise, the majority of your filtration should be done on the low speed. A two-speed pump will need a controller capable of switching the motor speeds automatically.

Variable-Speed Pumps are capable of performing just as well as two-speed pumps. Variable speed pumps provide ultimate flexibility. Some of them can be programmed to run at more than four speeds and at the desired flow rate for each application. Variable speed pumps and motors need no additional controls.

**City of St. George Energy Services Department
Energy Efficiency Rebate Application
New Single-Family Construction Residential Rebates**

Important: Please read this application carefully. It is the applicant's responsibility to complete the application and submit it with the required supporting documentation. Rebates are available only for new construction of single-family dwellings of up to 4 dwelling units where measures are installed as part of the new construction process. **Eligible projects are those built in the City of St. George Energy Services (SGESD) service territory.** The application must be signed by the Builder/developer. Rebates will not be paid for ineligible or incomplete applications. **Projects must be preapproved for the rebate with verification of installed measures completed during the building process.**

Builder Name _____ Phone _____

Mailing Address _____

City _____ State _____ Zip _____

Site Information

Subdivision _____ Lot# _____

Project Address _____ Zip _____

Please check rebate measure applying for		Rebate	Verification included		
	Whole House HERS Rating of 73 or lower	\$1,200	Field verification and supporting documentation by home energy rater (HERS) Must be provided		
	Attic Insulation (R-38) and Exterior Wall insulation (R-19)	\$150	Field Verification (Building inspection of insulation installed or HERS rater) and supporting documentation is required.		
	Attic insulation (R-49) and Exterior Wall Insulation (R-19)	\$200	Field Verification (Building inspection of insulation installed or HERS rater) and supporting documentation is required.		
			Model Number	Serial Number	Receipts
	SEER 15 or better Air Conditioning Unit	\$250			
	Two Speed Pool Pump	\$75			
	Variable Speed Pool Pump	\$125			

Home Information

Heat Source		Water Heater Type	
<input type="checkbox"/> Electric	<input type="checkbox"/> Natural Gas Furnace	<input type="checkbox"/> Electric	
<input type="checkbox"/> Heat Pump _____ (Efficiency Rating)	<input type="checkbox"/> Natural Gas	<input type="checkbox"/> Other	

HERS Rating Verifier information

Rater Name _____ Rater Organization _____
Phone _____ Home Verification process ___ Rated ___ Sampled If sampled home, provide site info for RATED home from the batch:
Subdivision _____ Lot # _____
Address: _____

Application Instructions:

1. Build a new home featuring a qualified measure. For more information on qualifying measures visit www.sgcity.org/energyservices or call 435-627-4848.
2. Complete the rebate application
3. Collect documentation noted below:
 - a. For High Efficiency Air Condition or Pool Pumps
 - i. Itemized receipt with date of purchase, description of equipment, manufacturer, model number and serial number of equipment
 - b. For insulation rebate
 - i. Documentation of inspection verifying level of insulation and that the install was done correctly for the type of insulation used.
 - c. For HERS rated home a third-party home energy rater (HERS) must verify the home performance and provide supporting documentation.
 - d. Include the pre-notification letter authorizing the proposed rebates associated with the project.
4. Keep a copy for your records
5. Review and sign the application Acceptance of Terms
6. Mail the completed and customer-signed application together with all supporting documents to:
City of St. George
Energy Efficiency Builder Rebates
175 East 200 North
St. George, UT 84770
7. Allow six weeks from receipt of complete application and documents to receive your rebate.

I hereby certify that all information is accurate, including claims of customer and equipment information. I have read all terms and conditions on this form and acknowledge that SGESD may verify all the information provided.

Customer Signature _____ Date _____

Rebate Availability

SGESD builder rebate program has been approved by the City Council and may be subject to change or modification at any time. All efficiency measures/equipment must be new and must be purchased and installed as part of the new construction on or after January 8, 2009. Applications must include all information requested. Failure to provide this information may result in the delay or denial of the rebate.

Rebate Qualification

Efficiency measures must be installed in single-family residents with up to four dwelling units within the SGESD service territory. Rebates will be payable to builder only (including owner/builder).

Rebate qualification

If equipment is returned after rebate is paid, SGESD will be reimbursed the rebate with penalty including associated legal and/or collection related costs. Equipment must be installed at a newly constructed residence at an address within the SGESD service territory. Qualifying new residences include single-family houses with up to four dwelling units.

Application Details

Applications are subject to verification by SGESD. If your application is selected for verification, it will not be processed until the verification process is satisfactorily completed. Generally, rebates will be issued in the form of a check, not utility-bill credits.

SGESD is not responsible if your supplier provides inaccurate information about the amount and/or conditions of the actual rebate. SGESD will not pay rebates for equipment that is mislabeled or misrepresented by dealers regarding rebate qualifications. Builders receiving rebates under this program may not receive equipment purchase and installation rebates for the same equipment under another SGESD program.

Rebate Limitations and Limitation of damages

Payment of the rebate by SGESD does not warrant the performance of qualifying/installed efficiency measures and does not warrant that the qualifying/installed efficiency measures will deliver any specified amount of energy or cost savings. The customer shall independently evaluate any information related to the qualifying equipment.

**City of St. George Energy Services Department
Energy Efficiency Rebate Application
Existing Single-Family Residential Rebates**

Important: Please read this application carefully. It is the applicant’s responsibility to complete the application and submit it with the required supporting documentation. Rebates are available only for customers living in EXISTING single-family dwellings with up to four dwelling units (not newly constructed homes) where measures are installed prior to requesting a rebate. **The application must be signed by the customer holding the City of St. George Electrical Utility account.** Rebates will not be paid for ineligible or incomplete applications. Rebates will be paid in the form of a credit issued on the electrical utility account.

Customer Information

Account Number _____

Customer Account Name _____ Phone _____

Installation Address _____ Zip _____

Home Information

<p>Building Information:</p> <p>Existing Heat Source: <input type="checkbox"/> Electric <input type="checkbox"/> Natural Gas</p> <p>Year Home Was Built _____ R-Value of Existing Insulation _____</p> <p>Participation in Thermwise Program <input type="checkbox"/> No <input type="checkbox"/> Yes _____</p>

	Please check rebate measure applying for	Rebate Rate	Receipt included
	Attic Insulation addition of (R-19 or higher) Maximum of 1,450 sq ft	\$.30/sq ft \$.20/sq ft	
	Exterior Wall Insulation addition of (R-11 or higher) –Maximum of 10,000 sq ft	\$.40/sq ft \$.30/sq ft	
	SEER 15 or better Air Conditioning Unit	\$350	
	Two Speed Pool Pump	\$75	
	Variable Speed Pool Pump	\$125	

Application Instructions:

Purchase and install a qualified measure. For more information on qualifying measures visit www.sgcity.org/energyservices or call 435-627-4848.

2. Provide all the information requested on this rebate application
3. Review and cite the acceptance terms.
4. Include all supporting documents in the following checklist
 - a. Sales Receipt or invoice which clearly details the following
 - i. Retailer/contractor name, address and phone number
 - ii. Purchase date and install date (if different)

- iii. Itemized detail of cost, quantity (square footage for insulation, etc) manufacturer and model name and/or number and any other product identifying information

iv. Proper Insulation Certificate

- 5. Keep a copy for your records

- 6. Mail the completed and customer-signed application together with all supporting documents to:
City of St. George
Energy Efficiency Rebates
175 East 200 North
St. George, UT 84770

Allow six weeks from receipt of complete application and documents to receive your rebate.

I hereby certify that all information is accurate, including claims of customer and equipment information. I have read all terms and conditions on this form (page 2) and acknowledge that SGESD may verify all the information provided. I understand and agree that my electric utility account may be monitored by the City of St. George for the sole purpose of evaluating prior and post rebate electrical use in order to determine the effectiveness of the program. I understand that submission of this application DOES NOT relieve me of my obligation to pay my utility account on time and in full while waiting for the rebate to be processed.

Customer Signature _____ Date _____

Rebate Availability

SGESD rebate program has been approved by the City Council and may be subject to change or modification at any time. All efficiency measures must be new, must be purchased and installed prior to submitting a rebate application, and must have been purchased and installed on or after January 8, 2009. Applications must include all information requested. Failure to provide this information may result in the delay or denial of the rebate.

Rebate Qualification

Efficiency measures must be installed in single-family residents with up to four dwelling units within the SGESD service territory.

Application Details

Applications are subject to verification by SGESD. If your application is selected for verification, it will not be processed until the verification process is satisfactorily completed. Rebates will be paid in the form of a credit issued on the electrical utility account. The exception to payment in the form of a credit on the utility bill will be made for a land-lord making improvements to a single-family residence that is a rental unit.

SGESD is not responsible if your retailer or contractor provides inaccurate information about the amount and/or conditions of the actual rebate and SGESD will not pay rebates for efficiency measures that are mislabeled or misrepresented by dealers regarding rebate qualifications.

Rebate Limitations and Limitation of damages

Payment of the rebate by SGESD does not warrant the performance of qualifying/installed efficiency measures and does not warrant that the qualifying/installed efficiency measures will deliver any specified amount of energy or cost savings. The customer shall independently evaluate any information related to the qualifying equipment.