

CITY OF KNOXVILLE GREEN INCENTIVE PROGRAM

Appliance and Energy Assessment Rebate Application

Applicant Information (Please print in ink pen)

Name: _____ Telephone Number: _____

The property owner must be the applicant to qualify for rebates.

Are you the owner of the property? (circle one) Yes / No

Name of Company (if a business or non-profit): _____

Site Address: _____

City: _____ Zip Code: _____

Mailing Address (if different): _____

City: _____ Zip Code: _____

What rebates are you applying for? Check the rebates that apply:

_____ Energy Evaluation Incentive and 2 Energy Saving Measures Completed (\$150.00)
(Applicants receiving rebate through TVA In-Home Energy Evaluation not eligible)

_____ ENERGY STAR Appliance / WATERSENSE Toilet Rebate (See requirements)

Part 2: Energy Evaluation and Measures Completed

ENERGY ASSESSMENT:

Certified Energy Auditor Name: _____

Contact Phone: _____ Company Name: _____

Business Address: _____

_____ Proof of Energy Audit / Energy Assessment by certified energy auditor attached?

_____ Proof of payment to Energy Auditor attached (i.e. original receipt)?

Measures Completed as result of Energy Audit: Check at least two

_____ Replace windows with ENERGY STAR qualified windows or install storm windows. Window replacement and installation must follow ENERGY STAR guidelines.

_____ Install storm windows

_____ Duct repair, replacement and air sealing measures by a professional HVAC contractor

_____ Minor rehabilitation work such as window pane repair; glazing; primary door replacement

- HVAC replacement with ENERGY STAR® qualified heat pumps
- Electric water heater insulation and pipe insulation
- Attic insulation / attic ventilation (must be non powered)
- Knee wall insulation in the attic
- Floor or perimeter insulation, and ground cover
- Air sealing including weatherstripping and caulking
- HVAC replacement with high efficiency gas furnace
- Central AC/heat pump tune up
- Other (please explain) _____

Did you have a contractor install the energy saving measures (marked above) in your home?
(circle) Yes / No

Installer Name: _____

Company Name: _____

Phone #: _____ Contractor's License #: _____

Installers Address: _____

Measures Installed? (please list)

Measures that you self installed? (please list)

Required Attachments: Have you attached the following supporting documentation to this application?

- Proof of energy savings products purchased and installed?
- Proof of payment to contractor/installer? (i.e. receipt and invoice)
- Certificate of disposal?
- Other documentation? (please describe) _____

If you installed the measures yourself please attach:

- Proof of purchase (i.e. receipts)
- Proof of installation (i.e. pictures)
- Certificate of disposal (i.e where did you take your old water heater for recycling?)

Part 3: Rebate for Appliances Purchased and Installed

Please check appliances installed for rebate:

_____ ENERGY STAR Refrigerator

_____ ENERGY STAR Water Heater

_____ WaterSense Toilet (max 2)

Were these contractor installed appliances? (circle) Yes / No

Installer / Company: _____ Phone #: _____

Address: _____

Appliances Installed? _____

Required Attachments: Have you attached the following supporting documentation to this application?

_____ Appliance Receipt(s) including make and model # of appliance.

_____ Proof that appliances are ENERGY STAR / WaterSense Certified?

_____ Proof of payment and amount paid to installer for installation (i.e. installer invoice and receipt)?

_____ Proof of installation if self installed (i.e. photos)

_____ Certificate of proper disposal of old appliances. (Where were old appliances taken to be recycled?)

_____ Other documentation (please explain) _____

Part 4: Application Signatures and Acceptance

The undersigned acknowledges and agrees that all of the terms and conditions of the City of Knoxville Green Incentive Rebate program are mandatory.

The undersigned agrees to the rebate terms and conditions and acknowledges that by signing below, the undersigned shall be bound by the terms and conditions contained therein.

The undersigned understands that participation in the Green Incentive Rebate program is voluntary. Green Incentive Rebates will be released upon rebate request completion and verification of energy savings measures completed by the applicant documented in this application. Rebate processing may take up to 60 days.

Rebates may not be released until proof of payment for appliances and their installation, any contracted services, and energy assessments have been provided. Submission of false information shall result in denial of this rebate request.

I certify that the statements made in this application, including all attachments and exhibits, are true and correct to the best of my knowledge.

Applicant Company (if applicable) _____

Signature of Authorized Representative _____ (or)

Signature of Applicant _____

Printed Name & Title of Applicant or Authorized Representative

Date: _____

OFFICE USE ONLY

Staff member verifying information: _____ Date: _____

Checklist:

- ____ Verified home ownership in CRS (printed for file)
- ____ Verified home owner / business owner is up to date on city and county taxes (printed for file)

Which rebate(s) does the consumer qualify for?

Rebate	Rebate Amount	Consumer Cost	50%
____ Energy Assessment	\$_____ (\$150)	\$_____	N/A
____ Appliance Rebate			
Water Heater	\$_____ (up to \$750)	\$_____	\$_____
Refrigerator	\$_____ (up to \$500)	\$_____	\$_____
Toilet	\$_____ (up to \$200 per)	\$_____	\$_____

Add 50% cost column for Appliance Rebate Maximum total. Add that number to the Energy Assessment Rebate if applicable. Enter that total as total client rebate below.

Total Client Rebate: \$ _____

Verifier Signature _____ **Date:** _____

Program Director Signature _____ **Date:** _____

CITY OF KNOXVILLE GREEN INCENTIVE PROGRAM

Appliance and Energy Assessment Incentive Guidelines and Eligibility

ENERGY ASSESSMENT INCENTIVE: \$150.00

The intent of the Energy Improvement Incentive program is to provide incentives for efforts that result in a whole building approach to improving energy efficiency. The program is developed to assist residential, commercial, and non-profit energy consumers to upgrade existing buildings to reduce energy use; to lower utility bills; and to improve comfort, durability, health and safety.

To qualify for the energy assessment incentives, **the applicant must complete an energy assessment on their dwelling and complete at least two recommendations by the professional energy audit.** Applicants must also meet the following guidelines:

- Applicant must be a customer of a local energy distributor in within the City of Knoxville
- Applicant must own the structure and be current on all City and County taxes
- Structure must be a single-family dwelling, commercial, or non-profit active place of business in the City of Knoxville
- The energy assessment incentive rebate cannot be combined with any other rebates or incentives provided by TVA, KUB, or LCUB
- Rebates are subject to change without notice and are subject to City and DOE approval

Professional energy auditor certifications include:

- a. Building Analyst with current BPI Certification
- b. HERS (Home Energy Rater) Certification through RESNET
- c. TVA - Tennessee Weatherization Assistance Program Certification
- d. Professional Auditor that completes (at a minimum) the following tests: a blower door test, a thermographic scan, and a PFT air infiltration measurement. See RESNET's Standards for a more in-depth examination of what to look for in a professional auditor."

The applicant must complete two (2) recommendations made by the professional energy auditor. Qualified recommendations are indicated in the list below:

Replace windows with ENERGY STAR® qualified windows or install storm windows. Window replacement and installation must follow ENERGY STAR guidelines.
 Install storm windows
 Duct repair, replacement and air sealing measures by a professional HVAC contractor
 Minor rehabilitation work such as window pane repair; glazing; primary door replacement

Electric water heater insulation and pipe insulation
 Attic insulation / ventilation (must be non powered)
 Knee wall insulation (in attic)
 Floor or perimeter insulation, and ground cover
 Air sealing including weatherstripping and caulking
 HVAC replacement with high efficiency gas furnace
 Central AC/heat pump tune up
 Other _____
 HVAC replacement with ENERGY STAR® qualified heat pumps

Appliance Rebate Incentive

Properties within the City limits of Knoxville will also be eligible for the Appliance Rebate Incentive. Rebates will be allocated on a first come, first serve basis to eligible applicants who submit all application materials, including meeting the energy assessment and energy improvement measures.

Improvements completed from a certified home energy evaluation	Maximum Rebate for Qualifying Appliances			Total Possible Package Rebate
	Refrigerator	Water Heater	Toilet (up to two)	
2 or more required	\$500.00	\$750.00	\$200.00 per toilet	Up to \$1,650.00
No individual rebate can be greater than 50% the cost of the product plus installation.				

To qualify for the appliance rebate incentive, the applicant must meet the following guidelines:

- Applicant must be a customer of a local energy distributor in Knoxville
- Applicant must own the structure and be current on all City and County taxes
- Structure must be a single-family dwelling, commercial, or non-profit active place of business in the City limits of Knoxville.
- Applicant must demonstrate proof of home energy assessment by a professional energy auditor. Professional energy auditor certifications include:
 - a. Building Analyst with current BPI Certification
 - b. HERS (Home Energy Rater) Certification through RESNET
 - c. TVA - Tennessee Weatherization Assistance Program Certification
 - d. TVA In-Home Energy Evaluation
 - e. Professional Auditor that completes (at a minimum) the following tests: a blower door test, a thermographic scan, and a PFT air infiltration measurement. See RESNET's Standards for a more in-depth examination of what to look for in a professional auditor."
- Applicant must demonstrate proof that two (2) energy savings measures were installed in the home as recommended by the professional energy auditor.
- Applicant must purchase and install ENERGY STAR or WaterSense appliances only including ENERGY STAR refrigerator; ENERGY STAR water heater; or WaterSense toilet.

- The rebate may not be used to replace any appliance that was installed using a previous TVA, KUB, or LCUB incentive
- The application packet must be submitted within 30 days of completing the energy savings measures in the home. Only one rebate package will be given per residence.
- Rebates are subject to change without notice and are subject to City and DOE approval.

Appliance Installation Guidelines:

ENERGY STAR Refrigerator:

- New refrigerator, freezer or combination unit must be at least 10 cubic feet and ENERGY STAR®-certified;
- Rebate is valid for replacing non-ENERGY STAR® refrigerators, freezers or combination units that are 10 cubic feet or larger, in use, and in working order. Not valid for dorm-sized refrigerators. Refrigerators less than 5 years old are not eligible for replacement under this program.
- Applicant must show documentation of proper disposal of refrigeration units in accordance with EPA standards. Solid Waste transfer station vouchers are acceptable. (<http://www.epa.gov/ozone/downloads/SafeDisposalBrochure.pdf>).
 - Refrigerators must have all CFCs and HCFCs removed by a certified company
 - All appliances must be properly recycled

ENERGY STAR Water Heater:

- New gas or heat-pump electric water heater must be at least 40 gallons. (www.energystar.gov);
- Rebate is valid for replacing non-ENERGY STAR® 40-gallon or greater water heaters that are in use and in working order. Water heaters less than 5 years old are not eligible;
- Applicant must show proper documentation of transfer facility drop off /recycling.

WaterSense Toilets

- New toilets must be WaterSense-certified and be installed by a qualified contractor partner.
- Rebate is valid for replacing up to two non-WaterSense-certified toilets that are in use and in working order. Toilets installed during the last 5 years are not eligible.
- Applicant must show proper documentation of proper disposal.

Complete the rebate application and bring it to CAC Housing & Energy Services. Be sure to include information about who completed the energy audit, and which contractors were used to install energy saving measures on your home.

CAC Housing & Energy Services
2247 Western Avenue
Knoxville, TN 37917
865-244-3080

To Apply:

1. Call or visit CAC Housing & Energy for an application. Applications are available online at www.cachousing.org.

2. Schedule an energy assessment by a qualified Energy Auditor.
3. Complete at least two (2) energy saving measures recommended through the energy assessment.
4. Read the rebate application carefully and fill out all sections that apply.
5. Complete the rebate application and bring it to CAC Housing & Energy Services. Be sure to include information about who completed the energy audit, and which contractors were used to install energy saving measures on your home.

CITY OF KNOXVILLE GREEN INCENTIVE PROGRAM

Solar Photovoltaic Rebate Application

Applicant Information (Please print in ink pen)

Residential Applicant:

Name of Applicant: _____

Address: _____

Phone Number: _____ Alt. Phone: _____

Non-Profit or Commercial Applicant:

Company Name: _____

Contact Person: _____

Address: _____

Phone Number: _____ Fax: _____

Email: _____ Website: _____

Is this a business classified as a 501(C)(3)? Y/N

General Description of Business:

Date Business Established: _____

Number of Employees: _____

Both a System Diagram and a Site Plan must be enclosed with this application. Plans are subject to technical review.

Qualifying Prerequisites

Applicant must supply supporting documentation of meeting the following pre-requisites.

1. **Existing Residential Homes:** Homes constructed prior to January 1, 2009 must show proof of at least one of the following occurring after January 1, 2000.
 - a. Participation in TVA's In-Home Evaluation Program and
 - i. Completion of at least two recommended eligible energy efficiency measures (through the TVA Qualified Contractor Network) or;
 - ii. TVA In-Home Energy Evaluation receipt showing that no improvements were necessary.
 - b. Comprehensive home energy audit completed by a home energy professional that includes a blower door test and
 - i. Completion of at least two recommended eligible energy efficiency measures by qualified partnering contractors or;

- ii. Evaluation showing no improvements were necessary or;
 - iii. Receipt of whole-home weatherization assistance through the CAC's Weatherization Program.
 - c. Designation as a LEED, ENERGY STAR, EarthCraft, or Builder's Challenge Certified home.
- 2. **New Construction Residential Homes and Major Renovations:** Homes built or significantly renovated after January 1, 2009 must show proof of at least two of the following:
 - a. Existing water heating system must comply with one of the following requirements:
 - i. Working solar hot water system; or
 - ii. ENERGY STAR qualified water heater.
 - b. Designation as a LEED, ENERGY STAR or EarthCraft, or Builder's Challenge Certified Home
 - c. HERS Rating lower than 85.
- 3. **Large Existing Commercial/Non-profit Properties:** Demand metered properties for primary commercial or non-profit use constructed prior to January 1, 2009 must show proof of at least one of the following occurring after January 1, 2000.
 - a. Participation in TVA's Commercial Efficiency Advice and Incentives Program and proof of summer peak demand reduction of at least 2kW, including lighting and HVAC upgrades.
 - b. Designation as LEED, ENERGY STAR®, or Builder's Challenge Certified Property.
- 4. **Small/Medium Commercial/Non-profit Properties:** Non-demand-metered properties for primary commercial or non-profit use constructed prior to January 1, 2009 must show proof of *at least one of the following* occurring after January 1, 2000:
 - a. Completion of a professional energy audit that includes blower door testing and
 - i. Completion of at least two recommended eligible energy efficiency measures by qualified partnering contractors or;
 - ii. Evaluation showing no improvements were necessary
 - b. Designation as a LEED, ENERGY STAR®, OR Builder's Challenge Certified Property.
 - c. Existing water heating system must comply with one of the following requirements:
 - i. Working solar hot water system; or
 - ii. ENERGY STAR® qualified water heater.
 - d. Non-profits / small businesses defined by the City of Knoxville Purchasing guidelines only:
 - i. Non-profits and small businesses may petition eligibility for incentives by showing proof they independently completed at least two of the energy-efficiency property upgrades considered in TVA's In-Home Energy Evaluation Program after January 1, 2000.

Primary Installer Information

Company Name: _____

Contact Person: _____

Address: _____

Phone Number: _____ **Fax:** _____

Email: _____ **Website:** _____

Contractor License Number: _____

Subcontractor Information

Company Name: _____

Contact Person: _____

Address: _____

Phone Number: _____ **Fax:** _____

Email: _____ **Website:** _____

Contractor License Number: _____

Solar Project Site Information

Site Name: _____

Site Address: _____

General Description of Site:

Electric Utility: _____ **Rate Code:** _____

Cost per kWh: _____ **What is the age of the building?** _____

Expected Project Start Date? _____ **Expected Project Completion Date?** _____

Total Project Size (DC watts): _____

Please indicate the best times during the week for a site visit: _____

Technical Worksheet – Photovoltaic System

Expected No. of Installed Panels/Unites: _____ Total Array Surface Area (ft²) _____

Array Type	____ Fixed Angle	Array Location	____ Rooftop
(check one):	____ Single Axis Azimuth Tracking	(check one):	____ Ground Mount Immediately Adjacent to Building
	____ Dual Axis Tracking		____ Other (Describe)
	____ Inclination Adjusted Seasonally		

Azimuth (degrees) _____
(180° = true south)

Inclination or Tilt (degrees) _____
(flat = 0°)

Project Cost Estimates

List All Major Components and Estimated Labor Cost

Component	Manufacturer	Model Number	Quantity	Total Cost
Inverters				
Maximum Inverter Output (W): _____				\$
Solar Modules				
Rated Output (W): _____		Panel Rated Efficiency: _____		\$
Mounting System				\$
Data Acquisition System				\$
Miscellaneous (Describe)				\$
Estimated Labor Costs for Installation				\$
Total Estimated Installed Costs				\$

Estimated Annual Production Accounting for Shading

		Input	Units
A	Estimated optimal annual Production (kWh). Use PV Watts (); Input optimal azimuth (180°), optimal inclination; 0.77 DC to AC derate factor; no shading.		kWh
B	Estimated actual annual production without shading reduction (kWh). Use actual azimuth and inclination specific for your project. Use 0.77 DC to AC default factor and no shading.		kWh
C	Ratio of Line B to Line A		%
D	Estimated shading reduction to Line B. (Must be based on current shading and impacts and cannot account for future trimmings)		%
E	Estimated annual production accounting for actual orientation and shading (kWh) = {Line B – (Line B x Line D)} / 100		kWh
F	Ratio of Line E to Line A		%
G	Meets Minimum Technical Performance Criteria (80%) (True or False)		

Summarize methodology and source for estimated shading impact (e.g. *Solar Path Finder, Solmetric SunEye*, etc). If shading reduction activities are required for the proposed system to meet the Minimum Technical Performance Criteria, these activities must be completed prior to submission of the application.

Photo Release Form

CAC has my permission to take my photo, and photos of any stage of installation or completion of Solar Hot Water and Solar Photovoltaic System installations with a Knoxville Green Incentive Program application.

CAC, CAC Housing & Energy Services, and City of Knoxville has my permission to take and use photos for print and web media including but not limited to newsletters, reports, website, and other mediums.

Print Name

Signature

Date

Contact number if you would like to give it: (not required)

Application Signatures and Acceptance Form

Knoxville Green Incentives – Solar Rebate Terms and Conditions: The undersigned understands that participation in the Green Incentive Rebate program is voluntary.

The undersigned acknowledges and agrees that all of the terms and conditions of the rebate request are mandatory. The undersigned agrees to the rebate terms and conditions and acknowledges that by signing below, the undersigned shall be bound by the terms and conditions contained therein.

The undersigned agrees to include a system diagram and a site plan enclosed with this application. Plans must be reviewed and accepted prior to installation in order to qualify for the rebate. Rebates may be denied based on the technical merit of the project.

Rebate applicants have 120 days from plan review and acceptance to install and verify installation of the project. Rebates will be released upon project completion. Installation and Warrantee Requirements must be followed.

Rebates may not be released until proof of payment for appliances and their installation, any contracted services, and energy assessments have been provided. Submission of false information shall result in denial of this rebate request.

I certify that the statements made in this application, including all attachments and exhibits, are true and correct to the best of my knowledge.

Applicant Company (if applicable) _____

Signature of Authorized Representative _____ (or)

Signature of Applicant _____

Printed Name & Title of Applicant or Authorized Representative

Date: _____

CITY OF KNOXVILLE GREEN INCENTIVE PROGRAM

Solar Water Heating Rebate Application

Applicant Information (Please print in ink pen)

Residential Applicant:

Name of Applicant: _____

Address: _____

Phone Number: _____ Alt. Phone: _____

Non-Profit or Commercial Applicant:

Company Name: _____

Contact Person: _____

Address: _____

Phone Number: _____ Fax: _____

Email: _____ Website: _____

Is this a business classified as a 501(C)(3)? Y/N

General Description of Business:

Date Business Established: _____

Number of Employees: _____

Both a System Diagram and a Site Plan must be enclosed with this application. Plans are subject to technical review.

Qualifying Prerequisites

Applicant must supply supporting documentation of meeting the following pre-requisites.

1. **Existing Residential Homes:** Homes constructed prior to January 1, 2009 must show proof of at least one of the following occurring after January 1, 2000.
 - a. Participation in TVA's In-Home Energy Evaluation Program and
 - i. Completion of at least two recommended eligible energy efficiency measures (through the TVA Qualified Contractor Network) or;
 - ii. TVA In-Home Energy Evaluation receipt showing that no improvements were necessary.

- b. Comprehensive home energy audit completed by a home energy professional that includes a blower door test and
 - i. Completion of at least two recommended eligible energy efficiency measures by qualified partnering contractors or;
 - ii. Evaluation showing no improvements were necessary or;
 - iii. Receipt of whole-home weatherization assistance through the CAC's Weatherization Program.
 - c. Designation as a LEED, ENERGY STAR, EarthCraft, or Builder's Challenge Certified home.
2. **New Construction Residential Homes and Major Renovations:** Homes built or significantly renovated after January 1, 2009 must show proof of at least one of the following:
- a. Designation as a LEED, ENERGY STAR or EarthCraft, or Builder's Challenge Certified Home
 - b. HERS Rating lower than 85.
 - c. Comprehensive home energy audit completed by a home energy professional that includes a blower door test and
 - i. Completion of at least two recommended eligible energy efficiency measures by qualified partnering contractors or;
 - ii. Evaluation showing no improvements were necessary
3. **Large Existing Commercial/Non-profit Properties:** Demand metered properties for primary commercial or non-profit use constructed prior to January 1, 2009 must show proof of at least one of the following occurring after January 1, 2000.
- a. Participation in TVA's Commercial Efficiency Advice and Incentives Program and proof of summer peak demand reduction of at least 2kW, including lighting and HVAC upgrades.
 - b. Designation as LEED, ENERGY STAR®, or Builder's Challenge Certified Property.
4. **Small/Medium Commercial/Non-profit Properties:** Non-demand-metered properties for primary commercial or non-profit use constructed prior to January 1, 2009 must show proof of *at least one of the following* occurring after January 1, 2000:
- a. Completion of a professional energy audit that includes blower door testing and
 - i. Completion of at least two recommended eligible energy efficiency measures by qualified partnering contractors or;
 - ii. Evaluation showing no improvements were necessary
 - b. Designation as a LEED, ENERGY STAR®, OR Builder's Challenge Certified Property.
 - c. Non-profits / small businesses defined by the City of Knoxville Purchasing guidelines only:
 - i. Non-profits and small businesses may petition eligibility for incentives by showing proof they independently completed at least two of the energy-efficiency property upgrades considered in TVA's In-Home Energy Evaluation Program after January 1, 2000.

Primary Installer Information

Company Name: _____

Contact Person: _____

Address: _____

Phone Number: _____ **Fax:** _____

Email: _____ **Website:** _____

Contractor License Number: _____

Subcontractor Information

Company Name: _____

Contact Person: _____

Address: _____

Phone Number: _____ **Fax:** _____

Email: _____ **Website:** _____

Contractor License Number: _____

Solar Project Site Information

Site Name: _____

Site Address: _____

General Description of Site:

What is the age of the building? _____

Expected Project Start Date? _____ **Expected Project Completion Date?** _____

Please indicate the best times during the week for a site visit?

Technical Worksheet – Solar Hot Water

Briefly describe the proposed solar water heating system including information regarding collectors, storage tanks, installers, and any other pertinent information already compiled at the time of application. Both a system diagram and a site plan must be enclosed with this application.

Collector Type: Flat Plate Vacuum Tube Other (please describe)

System Type: Closed Loop Drain Back Other (please describe)

Collector Location: Rooftop Ground Wall Other

Proposed Collector Size (square feet) _____

Number of collector panels? _____

Proposed Tank Size (gallons) _____

Circulator Size (watts) _____

Project Cost Estimates

Proposed Cost of the System (A copy of an itemized and signed contract, purchase order or letter of intent must be enclosed with this application)

Total System Cost \$ _____

Shading Analysis

Please provide a brief description of your assessment of the exposure to sunshine at the project site:

If there is shading on the collectors at any time of the year between 9:00 am and 3:00 pm, please enclose a shading analysis for the proposed installation site.

Photo Release Form

CAC has my permission to take my photo, and photos of any stage of installation or completion of Solar Hot Water Systems and Solar Photovoltaic Systems receiving rebates by CAC Housing & Energy Services, Knoxville – Knox County Community Action Committee; and the City of Knoxville associated with the City of Knoxville Green Incentive Program.

CAC, CAC Housing & Energy Services, and City of Knoxville has my permission to use photos for print and web media including but not limited to newsletters, reports, website, and other mediums.

Print Name

Signature

Date

Contact number if you would like to give it: (not required)

Application Signatures and Acceptance Form

Knoxville Green Incentives – Solar Rebate Terms and Conditions: The undersigned understands that participation in the Green Incentive Rebate program is voluntary.

The undersigned acknowledges and agrees that all of the terms and conditions of the rebate request are mandatory. The undersigned agrees to the rebate terms and conditions and acknowledges that by signing below, the undersigned shall be bound by the terms and conditions contained therein.

The undersigned agrees to include a system diagram and a site plan enclosed with this application. Plans must be reviewed and accepted prior to installation in order to qualify for the rebate. Rebates may be denied based on the technical merit of the project.

Rebate applicants have 120 days from plan review and acceptance to install and verify installation of the project. Rebates will be released upon project completion. Installation and Warrantee Requirements must be followed.

Rebates may not be released until proof of payment for appliances and their installation, any contracted services, and energy assessments have been provided. Submission of false information shall result in denial of this rebate request.

I certify that the statements made in this application, including all attachments and exhibits, are true and correct to the best of my knowledge.

Applicant Company (if applicable) _____

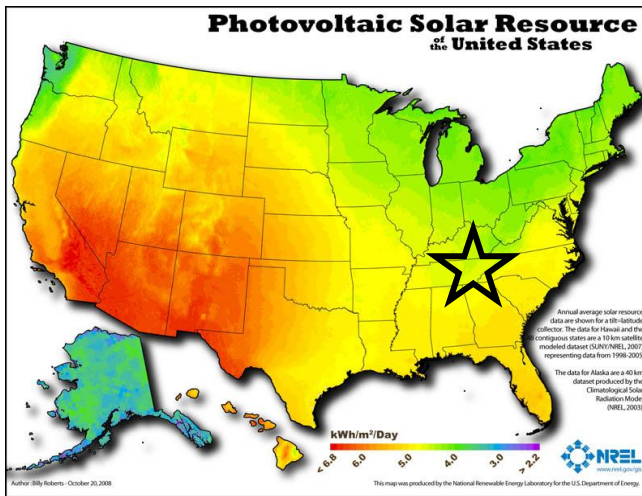
Signature of Authorized Representative _____ (or)

Signature of Applicant _____

Printed Name & Title of Applicant or Authorized Representative

Date: _____

CITY OF KNOXVILLE GREEN INCENTIVE PROGRAM



Solar Rebate Program

The City Of Knoxville's Energy and Sustainability Initiative is offering rebates to home-owners, non-profit organizations, and commercial businesses within the Knoxville City limits for installing Solar Photovoltaic Systems and Solar Water Systems.

Solar Photovoltaic Rebates:

Commercial \$1,000 per kW, up to 5kW

Residential \$2,000 per kW, up to 5kW

Non-profit \$3,000 per kW, up to 5kW

Solar Water Heating Rebates:

\$1,000 for 1-3 Collector panel system

\$1,500 for 4-6 Collector panel system

\$2,000 for 6+ Collector panel system

Visit

www.cachousing.org

to view and print the

Application and

Solar Installation Rebate

Eligibility & Requirements

Contact:

CAC Housing & Energy Services

www.cachousing.org

(865) 244-3080



CITY OF KNOXVILLE

CAC Knoxville - Knox County
Community Action Committee

Helping People. Changing Lives.

CITY OF KNOXVILLE GREEN INCENTIVE PROGRAM

Solar Installation Rebate Eligibility & Requirements

The City of Knoxville is offering rebates to homeowners, non-profit organizations, and commercial businesses within the Knoxville City limits for installing solar water heating systems and solar photovoltaic systems. Rebates are limited to one system each per property.

Solar Photovoltaic Rebates:

Commercial \$1,000 per kW installed capacity up to 5kW

Residential \$2,000 per kW installed capacity up to 5kW

Non-profit \$3,000 per kW installed capacity up to 5kW

Solar Water Heating Rebates:

\$1,000 for 1-3 Collector panel system

\$1,500 for 4-6 Collector panel system

\$2,000 for 6+ Collector panel system

Rebates will be allocated on a first come, first serve basis to eligible applicants who submit all application materials, including meeting the energy efficiency requirement; approval of system design plans subject to technical review; and once approved complete project installation. Once the plans to install a solar water and/or PV system have been approved by the Program Administrator, the rebate will be allocated to that project to be disbursed upon completion. The applicant will have 120 days to complete system installation and request the rebate. Rebates will be disbursed after the applicant shows proof of system completion, connection to grid (PV) and verified installed capacity levels (PV) and adherence to all system installation and warrantee requirements.

Rebate Steps:

1. Select a solar water heater or solar PV installer company registered in the City of Knoxville's Qualified Solar Installation Network.
2. Submit application; proof of meeting energy efficiency requirements; and system design plans to CAC Housing & Energy Services.
3. CAC Housing & Energy Services will review the application; energy efficiency requirements; and system design.
4. Once the plans to install a solar water and/or PV system have passed the technical review and been approved by CAC Housing, The applicant will have 120 days to complete system installation and request the rebate.
5. Once system installation is complete, a second technical review will be performed to verify connection to the grid (PV only); installed capacity levels (PV only), adherence to all system installation and warrantee requirements; and proper disposal of the replaced hot water heater (if applicable) before the rebate is released.

Prerequisites

Applicants are responsible for checking with neighborhood and homeowner association rules about any existing restrictions on PV or Solar Water installations. Installed PV and Solar hot water systems cannot be removed from the City of Knoxville limits. The applicant must meet certain energy efficiency requirements relevant to the property on which the solar system will be installed. See below:

Residential:

1. **Existing Residential Homes:** Homes constructed prior to January 1, 2009 must show proof of at least one of the following occurring after January 1, 2000.
 - a. Participation in TVA's In-Home Evaluation Program and
 - i. Completion of at least two recommended eligible energy efficiency measures (through the TVA Qualified Contractor Network) or;
 - ii. TVA In-Home Energy Evaluation receipt showing that no improvements were necessary.
 - b. Comprehensive home energy audit completed by a home energy professional that includes a blower door test and
 - i. Completion of at least two recommended eligible energy efficiency measures by qualified partnering contractors or;
 - ii. Evaluation showing no improvements were necessary or;
 - iii. Receipt of whole-home weatherization assistance through the CAC's Weatherization Program.
 - c. Designation as a LEED, ENERGY STAR, EarthCraft, or Builder's Challenge Certified home.
2. **New Construction Residential Homes and Major Renovations:** Homes built or significantly renovated after January 1, 2009 must show proof of at least one of the following:
 - a. (If applying for PV rebate) Existing water heating system must comply with one of the following requirements:
 - i. Working solar hot water system; or
 - ii. ENERGY STAR qualified water heater.
 - b. Designation as a LEED, ENERGY STAR or EarthCraft, or Builder's Challenge Certified Home
 - c. HERS Rating lower than 85.
 - d. Comprehensive home energy audit completed by a home energy professional that includes a blower door test and
 - i. Completion of at least two recommended eligible energy efficiency measures by qualified partnering contractors or;
 - ii. Evaluation showing no improvements were necessary

Commercial and Non-Profit Businesses:

3. **Large Existing Commercial/Non-profit Properties:** Demand metered properties for primary commercial or non-profit use constructed prior to January 1, 2009 must show proof of at least one of the following occurring after January 1, 2000.

- a. Participation in TVA's Commercial Efficiency Advice and Incentives Program and proof of summer peak demand reduction of at least 2kW, including lighting and HVAC upgrades.
 - b. Designation as LEED, ENERGY STAR®, or Builder's Challenge Certified Property.
4. **Small/Medium Commercial/Non-profit Properties:** Non-demand-metered properties for primary commercial or non-profit use constructed prior to January 1, 2009 must show proof of at least one of the following occurring after January 1, 2000:
- a. Completion of a professional energy audit that includes blower door testing and
 - i. Completion of at least two recommended eligible energy efficiency measures by qualified partnering contractors or;
 - ii. Evaluation showing no improvements were necessary or
 - b. Designation as a LEED, ENERGY STAR®, OR Builder's Challenge Certified Property.
 - c. (If applying for PV rebate) Existing water heating system must comply with one of the following requirements:
 - i. Working solar hot water system, or
 - ii. ENERGY STAR® qualified water heater or.
 - d. Non-profits / small businesses defined by the City of Knoxville Purchasing guidelines only:
 - i. Non-profits and small businesses may petition eligibility for incentives by showing proof they independently completed at least two of the energy-efficiency property upgrades considered in TVA's In-Home Energy Evaluation Program after January 1, 2000.

Technical Review Requirements:

Both Solar Photovoltaic and Solar Hot Water systems must pass a technical review, at both the application stage and at the completion of the installation inspection. The program administrator reserves the right to either not award funds to the applicant on grounds that the project lacks technical merit or is not properly installed. In the case that the applicant has gone forward with the installation of a system, the City of Knoxville reviewer will provide in writing any outstanding issues that need to be corrected in the installation before the release of funds by the City.

Solar Access Requirements:

Solar system orientation: Systems eligible for rebates must be installed such that they are generally south-facing. North-facing systems do not allow full use of sunlight. Installation facing west or east will be considered; however, orientation must be factored into calculation of installed capacity. The City of Knoxville retains the right to deny rebates based on poor orientation of the proposed solar system.

Solar system shading: Systems eligible for rebates must be installed such that they are minimally shaded by trees, buildings, and other structures. A sun selector plot printout is required with application. The City of Knoxville retains the right to deny rebates based on improper placement of solar systems relative to shade structures.

Installation and Warranty Requirements

Photovoltaic Systems

1. All PV systems must be connected to the public electrical grid through TVA's Generation Partners Program.
 - a. Customer must have a local energy distributor electric account number.
 - b. Systems shall be interconnected at the customer's expense, and the City of Knoxville and Program Manager will not facilitate the agreement nor any subsequent rebates or payments with the local energy distributor.
 - c. The PV system will comply with current City of Knoxville and KUB guidelines regarding electrical interconnection and must be in full compliance with the National Electrical Code, as will be enforced through the City of Knoxville electrical inspection and KUB Interconnection Inspection processes. These guidelines are subject to revision independent of the rebate program, and systems must comply with the latest version of these guidelines available at the time of interconnection.
2. All installation work must be performed in accordance with all applicable federal, state, local, and manufacturer's codes and standards and the KUB Interconnection Guidelines.
3. PV systems must be installed by a contractor included in the City of Knoxville's Preferred Solar Installer Network.
4. PV systems will only qualify for rebates if the solar modules and all related electrical equipment are UL listed.
 - a. NOTE: City of Knoxville is not a manufacturer, supplier, or guarantor of the PV system or installers, and City of Knoxville, whether by making available a list of registered installers and equipment sources or otherwise, has not made and makes no representations or warranties of any nature, directly, or indirectly, express or implied, as to performance of the installer or reliability, performance, durability, condition, or quality of the PV system selected and purchased.
5. All PV systems installed must carry a 5-year warranty from the installer in addition to a minimum 10-year manufacturer warranty on inverters in residential applications without battery back-up and a minimum 20-year manufacturer warranty on solar panels.
6. Licensed electrical contractors must obtain appropriate permits and perform all electrical interconnections.
7. All solar PV modules, inverters, mounting equipment, and other components of solar PV must be new.
 - a. If re-roofing is required, PV system removal and reinstallation is at customer expense – City of Knoxville will not reimburse for any cost related to roofing.

Solar Hot Water Systems

1. All solar hot water system installation work must be performed in accordance with all applicable federal, state, local, and manufacturer's codes and standards.
2. Solar Hot Water systems must be installed by a contractor included in the City of Knoxville's Preferred Solar Installer Network.
3. Solar hot water systems will only qualify for rebates if they are SRCC certified.
4. NOTE: City of Knoxville is not a manufacturer, supplier, or guarantor of the solar hot water system or installers, and City of Knoxville, whether by making available a list of registered installers and equipment sources or otherwise, has not made and makes no representations or warranties of any nature, directly, or indirectly, express or implied, as to performance of the installer or reliability, performance, durability, condition, or quality of the solar hot water system selected and purchased.
5. All solar hot water systems installed must carry a minimum 5-year warranty from the installer.
6. Licensed electrical and plumbing contractors must obtain appropriate permits and perform all electrical interconnections.
7. Solar Hot Water collectors, piping, mounting equipment, and other components of solar thermal systems must be new.
 - a. If re-roofing is required, Solar Hot Water system removal and reinstallation is at customer expense – The COK will not reimburse for any cost related to roofing.

Note: City of Knoxville (COK) guidelines and rebate levels are subject to change without notice, and COK reserves the right to refuse any application/request for incentive payment that does not meet City, KUB, or LCUB requirements.

CITY OF KNOXVILLE GREEN INCENTIVE PROGRAM

Energy Improvement Incentive



The City Of Knoxville's Energy and Sustainability Initiative is offering a **\$150.00 rebate** to home-owners, non-profit organizations, and commercial businesses within the Knoxville City limits. The rebate will be provided to applicants who complete a professional energy assessment and two energy savings measures recommended by the assessment. **Applicants who receive the TVA Energy Right In-Home Evaluation rebate is not eligible.**

Do You Qualify?

- Applicant must own the structure and be current on all City and County taxes.
- Applicant must be a customer of a local energy distributor.
- Structure must be a single-family dwelling, commercial, or non-profit active place of business inside the City of Knoxville.
- The application packet must be submitted within 30 days of completing the energy savings measures in the home.

Rebate Steps

1. Call or visit CAC Housing & Energy for an application and application guidelines. www.cachousing.org
2. Complete an energy assessment on your home with a certified home energy auditor. Certified Energy Auditors may have the following certification:
 - a. Building Analyst with current BPI Certification
 - b. HERS (Home Energy Rater) Certification through RESNET
 - c. TVA – Tennessee Weatherization Assistance Program Certification
 - d. Professional Auditor that completes (at a minimum) the following tests: a blower door test, a thermographic scan, and a PFT air infiltration measurement. See RESNET's Standards for a more in-depth examination of what to look for in a professional auditor.
3. Complete at least 2 energy savings measures recommended by your energy assessment.
4. Submit your completed application and required documentation to claim your rebate.

Contact:

CAC Housing & Energy Services

www.cachousing.org

(865) 244-3080



ENERGY STAR Refrigerator

Rebate Offer: ½ the cost, up to \$500.00 for an ENERGY STAR Refrigerator.

Application and Guidelines Apply:

- Program is available in City of Knoxville limits only.
- Rebate is valid for replacing non-ENERGY STAR refrigerators, freezers or combination units that are 10 cubic feet or larger, in use, and in working order.
- Refrigerators less than 5 years old are not eligible for replacement.
- Applicant must show proper proof of installation and disposal of refrigeration units in accordance with EPA standards.
- Applicant must have a home energy evaluation and complete two measures recommended by the evaluation. **You may be eligible for an additional \$150.00 rebate for doing for this.**

Contact:

CAC Housing & Energy Services

www.cachousing.org

(865) 244-3080

WaterSense Toilets



Rebate Offer: ½ the cost, up to \$200.00 each, for up to 2 WaterSense Toilets.

Application and Guidelines Apply:

- Program is available in City of Knoxville limits only.
- Rebate is valid for replacing non WaterSense Certified toilets that are in use and in working order.
- Toilets less than 5 years old are not eligible for replacement.
- Customer may purchase and install up to two (2) WaterSense certified toilets for ½ the cost of your new purchase up to the maximum rebate of \$400.00.
- Applicant must show proper documentation of installation and disposal of the toilets replaced.
- Applicant must have a home energy evaluation and complete two measures recommended by the evaluation. **You may be eligible for an additional \$150.00 rebate for doing for this.**



Contact:

CAC Housing & Energy
Services

www.cachousing.org

(865) 244-3080

ENERGY STAR Water Heaters

Rebate Offer: ½ the cost, up to **\$750.00** for an ENERGY STAR Water Heater.

Application and Guidelines Apply:

- Program is available in City of Knoxville limits only.
- Rebate is valid for replacing non-ENERGY STAR 40 gallon or greater water heaters that are in use and in working order. Water heaters less than 5 years old are not eligible.
- A new gas or heat-pump electric water heater must be at least 40 gallons and have an energy factor of at least 2.0.
- Applicant must show proper documentation of product installation and disposal of the old discarded water heater.
- Applicant must have a home energy evaluation and complete two measures recommended by the evaluation. **You may be eligible for an additional \$150.00 rebate for doing for this.**



Contact:
CAC Housing & Energy
Services
www.cachousing.org
(865) 244-3080