

DSM

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Touchstone Energy Home

Purpose

In an effort to improve new residential home energy performance, EKPC has designed the Touchstone Energy Home Program. This program provides guidance during the building process to guarantee a home that is $\geq 25\text{-}30\%$ more efficient than the Kentucky standard built home.

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The standard built new home in rural Kentucky typically receives a 105 on the Home Energy Rating System ("HERS") Index.

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Availability

This program is available in all service territories served by EKPC.

Eligibility

To qualify as a Touchstone Energy Home under EKPC's program, the participating single-family home must be located in the service territory of a participating owner-member and must meet the program guidelines following one of the two (2) available paths of approval. Multi-family dwellings pre-approved by EKPC may be eligible.

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Prescriptive Path:

- Home must meet each efficiency value as prescribed by EKPC.
- Home must receive pre-drywall inspection and complete EKPC's pre-drywall checklist.
- Home must receive a final inspection, pass a whole-house air-leakage test, and duct leakage test.
- Primary source of heat must be an Air Source Heat Pump \geq current ENERGY STAR[®] specifications for Seasonal Energy Efficiency Ratio "SEER" and Heating Seasonal Performance Factor "HSPF" or Geothermal.
- Water Heater must be an electric storage tank water heater that is \geq current Energy and Water conservation standards established by the Federal Department of Energy "DOE".

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Performance Path:

- Home must receive a HERS Index score of ≤ 75 (At least 30% more efficient than the KY standard built home)
- Home must receive pre-drywall inspection and complete EKPC's pre-drywall checklist.
- Home must receive a final inspection, pass a whole-house air-leakage test and duct leakage test.
- Primary source of heat must be an Air Source Heat Pump \geq Current Energy and Water conservation standards established by the Federal DOE or Geothermal
- Home must pass current energy code requirements established in the Kentucky Residential Code
- Water Heater must be an electric storage tank water heater that is \geq current Energy and Water conservation standards established by the Federal DOE.


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DSM – (continued)

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Touchstone Energy Home

Payments

EKPC will provide the payments outlined below to the owner-member to cover administrative cost, net lost revenue, and the recommended incentive to the retail member. Lost revenue calculations may fluctuate based on current electric rates.

<u>Program Path</u>	<u>Payment to Member System</u>	
Prescriptive Path	\$1,450	T
Performance Path	\$1,450	T

Term

The program is an ongoing program.

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Direct Load Control Program – Residential

Purpose

The Direct Load Control Program will encourage the reduction in growth of peak demand, enabling EKPC to utilize its system more efficiently, manage market purchases, and defer the construction of new generation.

Availability

The Direct Load Control Program is available to residential retail members in the service territories of EKPC owner-members and will include the control of existing water heaters, existing and new air conditioners and heat pumps.

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Availability may be denied where, in the judgment of the owner-member, installation of the load control equipment is impractical.

Eligibility

To qualify for this program, the new participant must be located in the service territory of a participating owner-member and have central air conditioning or heat pump units with single-stage compressors.

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The above appliances may be electrically cycled or interrupted in accordance with the rules of this Tariff.

The participant may either own or rent the residence where the qualifying appliances are located. The residence may be either a single-family structure or a multi-family apartment facility.

The participant is responsible for obtaining the permission of the owner of the rented residence to participate in the load control program. The owner-member may require that a rental property agreement be executed between the owner-member and the owner of the rented residence.

Program Incentives

EKPC and participating owner-member will provide an incentive to the participants in this program for the following appliances:

Water Heaters: EKPC will reimburse the participating owner-member \$10.00 per water heater annually. The participating owner-member, in turn, has the option of crediting the power bill of the participant \$10.00 per water heater per year or provide the incentive via other payment means including, but not limited to, a check. The participant will receive this incentive regardless of whether the water heater is actually controlled during any program month.

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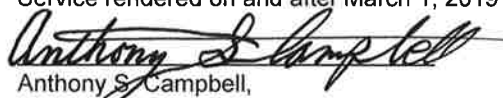
Air Conditioners and Heat Pumps: EKPC and participating owner-members will provide an incentive to the participants in this program. The participant may select one of three alternatives. The participant will receive one of these incentives regardless of whether the air conditioner or heat pump is actually controlled during any program month.

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DSM – Direct Load Control Program – Residential (continued)

Alternative One: EKPC will reimburse the participating owner-member \$20.00 annually per participating air conditioner or heat pump. The participating owner-member will, in turn, credit the residential power bill of the participant \$20.00 per air conditioner or heat pump or provide the incentive via other payment means including, but not limited to, a check.

Alternative Two: When technically feasible, EKPC may provide and install, at no cost, one or more Wi-Fi enabled thermostats as needed for control purposes or EKPC may provide a Wi-Fi enabled thermostat and a rebate up to \$100 to offset the member’s cost to have the thermostat installed by the member’s own heating and air-conditioning contractor. The member must sign-up each EKPC provided thermostat within 60 days or return it to EKPC or be invoiced by EKPC for the cost of the thermostat. Wi-Fi enabled means any thermostat utilizing the Wi-Fi communication protocol or similar local networking communication protocols. The member must have a fixed location, reliable internet for communication. EKPC will reimburse the participating member \$20 per qualifying Wi-Fi enabled thermostat annually.

Alternative Three: EKPC will reimburse the participating owner-member \$20.00 annually per qualifying Wi-Fi enabled thermostat provided by the retail member that controls an air conditioner or heat pump or provide the incentive via other payment means including, but not limited to, a check. EKPC will provide a rebate up to \$100 to offset the member’s cost to have the thermostat installed by the member’s own heating and air-conditioning contractor. The member must have a fixed location, reliable internet for communication.

If the appliances noted above are controlled or interrupted during the time of EKPC’s monthly billing peak, no additional monetary adjustments will be made. If the appliances noted above are not controlled or interrupted during the time of EKPC’s monthly billing peak, then EKPC will credit the owner-member’s bill by an amount which represents the savings that would have occurred had the control or interruption been made.

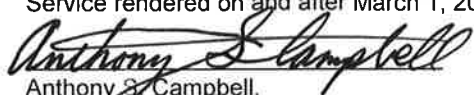
When the qualifying appliances are located in rental residences, program incentives will be paid to the participant, regardless of whether the participant owns or rents the residence where the qualifying appliances are located. Nothing contained in this Tariff will prohibit a further disposition of the program incentive between the participant and the owner of a rented residence.

Program Special Incentives

EKPC and participating owner-members will provide a special incentive up to \$20.00 for new participants that install a load control switch on qualifying air conditioners and heat pumps, utility supplied Wi-Fi enabled thermostat or retail member supplied Wi-Fi enabled thermostat. This one-time incentive will be in the form of a bill credit on the electric bill following the switch installation or provided via other payment means including, but not limited to, a check.

Time Periods for Direct Load Control Program

Water Heaters: Existing load control switches may be electrically interrupted for a maximum time period of six (6) hours per event during the May through September months indicated below and for a maximum time period of four (4) hours per event during the October through April months indicated below.

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DSM – Direct Load Control Program – Residential (continued)

EKPC will cycle the water heaters only during the hours listed below.

<u>Months</u>	<u>Hours Applicable for Demand Billing – EPT</u>
October through April	6:00 a.m. to 12:00 noon 4:00 p.m. to 10:00 p.m.
May through September	10:00 a.m. to 10:00 p.m.

Air Conditioners and Heat Pumps: A load control device (switch or Wi-Fi enabled thermostat) will be placed on each central air conditioning unit or heat pump will allow the operating characteristics of the unit to be modified to reduce demand on the system. Communication to the load control device will be accomplished via AMR, AMI, Wi-Fi or similar communication technologies.

EKPC will control the air conditioning units and heat pumps only during its summer on-peak billing hours listed below and up to (4) four hours per event.

<u>Months</u>	<u>Hours Applicable for Demand Billing – EPT</u>
May through September	10:00 a.m. to 10:00 p.m.

Terms and Conditions

1. Prior to the installation of load control devices, the owner-members may inspect the participant’s electrical equipment to insure good repair and working condition, but the owner-members shall not be responsible for the repair or maintenance of the electrical equipment.
2. EKPC, on behalf of the owner-members, will install, in some cases, own, and maintain the load management devices controlling the participant’s air conditioner or heat pump for Alternatives One and Two as noted in this tariff. The participant must allow the owner-member, or its representative, reasonable access to install, maintain, inspect, test and remove load control devices. Inability of the owner-member to gain access to the load management device to perform any of the above activities for a period exceeding thirty (30) days may, at the owner-member’s option, result in discontinuance of credits under this tariff until such time as the owner-member is able to gain the required access.
3. Participants in the Pilot program from Big Sandy RECC and Blue Grass Energy will have the opportunity to participate in this program. Equipment already installed on the premises may be used as part of this program.
4. Participants may join the program at any time during the year. Participants with air conditioning or heat pump units who join during the months of June through September can select an incentive alternative as described in this Tariff. If the incentive is selected, incentives will be provided annually.
5. If a participant decides to withdraw from the program or change incentive alternatives, the owner-member will endeavor to implement the change as soon as possible.
6. If a participant decides to withdraw from the program, the participant may not apply to rejoin the program for a period of six (6) months. Returning participants for air conditioning and heat pump units will be required to initially select the bill credit alternative, but may change alternatives later as described in this Tariff.

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Direct Load Control Program – Commercial

Purpose

The Direct Load Control Program will encourage the reduction in growth of peak demand, enabling EKPC to utilize its system more efficiently, manage market purchases, and defer the construction of new generation.

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Availability

The Direct Load Control Program is available to commercial retail members in the service territories of EKPC's owner-members and will include the control of air conditioners, heat pumps, and water heaters.

Availability may be denied where, in the judgment of the owner-member, installation of the load control equipment is impractical.

Eligibility

To qualify for this Program, the participant must be located in the service territory of a participating owner-member and have central air conditioning or heat pump units. The appliance may be electrically cycled or interrupted in accordance with the rules of this Tariff.

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The participant is responsible for obtaining the permission of the commercial property owner to participate in the load control program. The owner-member may require that a rental property agreement be executed between the owner-member and the owner of the rented commercial property.

Program Incentives

EKPC and participating owner-members will provide an incentive to the participants in this program for the following appliances:

Air Conditioners and Heat Pumps: The incentive will be based on the tonnage of the air conditioning or heat pump unit. Units up to and including five tons will receive \$20.00 per unit annually. Units over five tons will receive an additional annual credit of \$4.00 per ton per unit. EKPC will reimburse the participating owner-member at the applicable incentive credit. The participating owner-member will, in turn, credit the commercial power bill of the participant at the applicable incentive credit, or provide via other payment means including, but not limited to, a check. The participant will receive the incentive regardless of whether the air conditioner or heat pump unit is actually controlled during any program month.

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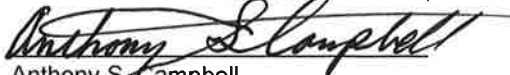


Water Heaters: EKPC will reimburse the participating owner-member \$10.00 per water heater annually. The participating owner-member, in turn, will credit the commercial power bill of the participant \$10.00 per water heater per year or provide the incentive via other payment means including, but not limited to, a check. The participant will receive this incentive regardless of whether the water heater is actually controlled during any program month.

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DSM– Direct Load Control Program – Commercial (continued)

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Time Period for Direct Load Control Program

Air Conditioners and Heat Pumps: A load control device will be placed on each central air conditioning or heat pump unit that will allow the operating characteristics of the unit to be modified to reduce demand on the system. Communication to the load control device will be accomplished via AMR, AMI, Wi-Fi or similar communication technologies.

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EKPC will control the air conditioning units only during its summer on-peak billing hours listed below:

<u>Months</u>	<u>Hours Applicable for Demand Billing - EPT</u>
May through September	10:00 a.m. to 10:00 p.m.

Water Heaters: A load control switch will be placed on the water heater and may be electrically interrupted for a maximum time period of six (6) hours per event during the May through September months indicated below and for a maximum time period of four (4) hours per event during the October through April months indicated below.

EKPC will cycle the water heaters only during the hours listed below.

<u>Months</u>	<u>Hours Applicable for Demand Billing - EPT</u>
October through April	6:00 a.m. to 12:00 noon 4:00 p.m. to 10:00 p.m.
May through September	10:00 a.m. to 10:00 p.m.

If the appliances noted above are controlled or interrupted during the time of EKPC’s monthly billing peak, no additional monetary adjustments will be made. If the appliances noted above are not controlled or interrupted during the time of EKPC’s monthly billing peak, then EKPC will credit the owner-member’s bill by an amount which represents the savings that would have occurred had the control or interruption been made.


Terms and Conditions

1. Prior to the installation of load control devices, the owner-members may inspect the participant’s electrical equipment to insure good repair and working condition, but the owner-members shall not be responsible for the repair or maintenance of the electrical equipment.
2. EKPC, on behalf of the owner-members, will install, in some cases own, and maintain the load management devices controlling the participant’s air conditioner or heat pump unit. The participant must allow the owner-member, or their representative, reasonable access to install, maintain, inspect, test and remove load control devices. Inability of the owner-member to gain access to the load management device to perform any of the above activities for a period exceeding thirty (30) days may, at the owner-member’s option, result in discontinuance of credits under this tariff until such time as the owner-member is able to gain the required access.

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DSM – Direct Load Control Program – Commercial (continued)

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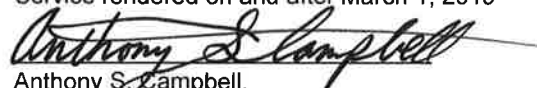
3. Participants may join the program at any time during the year. Participants with air conditioners or heat pumps, who join during the months of June through September will receive bill credit incentive annually.
4. If a participant decides to withdraw from the program, the owner-members will endeavor to implement the withdrawal as soon as possible. If a participant decides to withdraw from the program, the participant may not apply to rejoin the program for a period of six (6) months.

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DSM
Button-Up Weatherization Program

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Purpose

The Button-Up Weatherization Program offers an incentive for reducing the heat loss of a home. The retail member may qualify for this incentive by improving attic insulation and by reducing the air leakage of their home.

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Availability

This program is available in all service territories served by EKPC.

Eligibility

This program is targeted at older single-family, multi-family or manufactured dwellings. Eligibility requirements are:

- Home must be 2-years old or older to qualify for the incentive.
- Primary source of heat must be electricity.

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The Button Up incentive will promote the reduction of energy usage through air sealing on the part of retail members. Typical air sealing could include caulking, improved weather stripping, sealing attic accesses, etc. To receive this incentive either an EKPC approved contractor or owner-member representative must perform a "pre" and "post" blower door test to measure actual Btuh reduced.

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The attic insulation portion of the Button Up incentive will promote the reduction of energy usage on the part of the retail member. Heat loss calculation of Btuh reduced will be made by using either the Manual J 8th Edition or through other methods approved by EKPC. Heat loss calculations in Btuh are based on the winter design temperature. In order to receive an incentive for attic insulation, an air seal must be completed.

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Payments

The Button Up incentive will pay a total payment of \$70 per thousand Btuh reduced and the maximum rebate incentive up to \$750 (\$40 per thousand Btuh to the retail member and \$30 per thousand Btuh to the owner-member). EKPC will also pay the owner-member an administrative fee of \$230 and up to \$565 for lost margins. EKPC will pay up to a total transfer payment of \$1,545.

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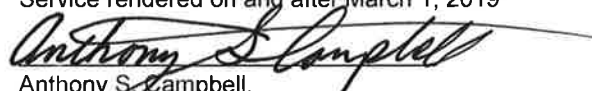
Term

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Heat Pump Retrofit Program

Purpose

The Heat Pump Retrofit Program provides incentives for residential retail members to replace their existing resistance heat source with a heat pump.

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Availability

This program is available in all service territories served by EKPC.

Eligibility

This program is targeted to retail members who currently heat their home with a resistance heat source; this program is targeted to site-built homes, manufactured homes, and multi-family dwellings. Eligibility requirements are:

- Incentive only applies when homeowner's primary source of heat is an electric resistance heat furnace, ceiling cable heat, baseboard heat or electric thermal storage.
- Existing heat source must be at least two (2)-years old.
- New manufactured homes are eligible for the incentive.
- Two (2) maximum incentive payments per location, per lifetime for centrally ducted systems.
- Ducted and Ductless mini-splits applying for the incentive will be incentivized at a rate of \$250 per indoor head unit up to a maximum of three head units per location, per lifetime.
- Participants in the Heat Pump Retrofit Program are not eligible for participation in the ENERGY STAR® Manufactured Home Program.

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Payments

Homeowners replacing their existing resistance heat source with a heat pump will qualify for the following incentive based on the equipment type.

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Equipment Type

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Central Ducted Systems:

Current Energy Conservation Standard established by the Federal Department of Energy "DOE".	\$1605 + \$90 Admin Fee
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Payment to Member System

Current ENERGY STAR® level equipment or greater.	\$1901 + \$90 Admin Fee
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Mini Split Systems:

Ducted or Ductless Mini-Splits	\$685 per indoor heat unit + \$90 Admin Fee
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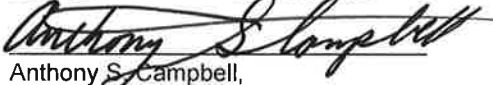
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Anthony S. Campbell,
President and Chief Executive Officer

DSM - Heat Pump Retrofit Program (continued)

EKPC will provide the payments outlined above to the owner-member for administrative costs, lost revenue, and the recommended incentive to the retail member. Lost revenue calculations may fluctuate based on current rates.

Term

The program is an ongoing program.

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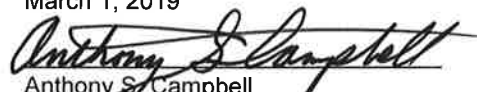

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ENERGY STAR® Manufactured Home Program

Purpose

EKPC's ENERGY STAR® Manufactured Home Program ("ESMH") is designed to ensure that retail members of EKPC's owner-members purchase an energy efficient manufactured home. EKPC will accomplish this by providing the purchaser of a manufactured home with an incentive to purchase and install a new ENERGY STAR® certified manufactured home.

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Availability

This program is available to all of EKPC's owner-members on whose system an ENERGY STAR® certified manufactured home is installed.

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Eligibility

To be eligible for this ESMH incentive, new manufactured homes must meet the following criteria:

- United States Environmental Protection Agency ("EPA") and Systems Building Research Alliance ("SBRA") guidelines as an ENERGY STAR® Manufactured Home.
- Primary source of heat must be a heat pump.
- Home must be all-electric.
- Home must be installed by the retail member on lines served by one of EKPC's 16 owner-members.
- Participants in the ENERGY STAR Manufactured Home Program are not eligible for participation in the Heat Pump Retrofit Program

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Payments

After new home installation and after receiving certification as an ENERGY STAR® manufactured home, EKPC will tender a \$1,150 incentive payment to the owner-member as the recommended incentive to the retail member. The incentive is intended to cover the cost of upgrading the home from the standard United States Department of Housing and Urban Development (HUD) construction requirements to the SBRA and EPA ENERGY STAR® manufactured home construction requirements. EKPC will pay \$990 to the owner-member on whose system the manufactured home is located to cover administrative costs and lost revenue.

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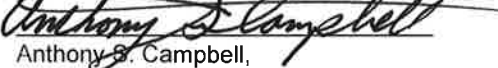


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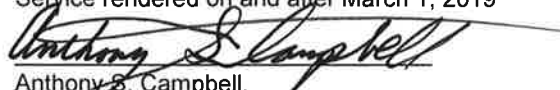

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