

Big Sandy Rural Electric Cooperative
504 11th Street
Paintsville, KY 41240
606-789-4095

January 30, 2019

***VIA ELECTRONIC TARIFF
FILING SYSTEM***

Ms. Gwen R. Pinson
Kentucky Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, KY 40602

Re: Big Sandy Rural Electric Cooperative – 2019 DSM Program Changes

Dear Ms. Pinson:

Please find enclosed for filing with the Commission the above-referenced Big Sandy Rural Electric Cooperative's revised tariffs for the following Demand Side Management ("DSM") Programs:

- Touchstone Energy Home
- Direct Load Control Program – Residential
- Direct Load Control Program – Commercial
- Button-up Weatherization Program
- Heat Pump Retrofit Program
- HVAC Duct Sealing Program
- Commercial & Industrial Advanced Lighting Program
- Industrial Compressed Air Program
- ENERGY STAR[®] Manufactured Home Program
- Appliance Recycling Program
- ENERGY STAR[®] Appliances Program

Over the last year, Big Sandy Rural Electric Cooperative has worked diligently with East Kentucky Power Cooperative, Inc. ("EKPC") and its DSM Steering Committee ("the Committee"), a committee of EKPC and Owner-Member cooperative ("Owner-Member") staff and consultants, to re-evaluate the cost-effectiveness and need for all existing DSM programs. Big Sandy Rural Electric Cooperative relied upon the work of EKPC's consultants and Staff throughout this effort. The conclusions of the re-evaluation were shared with EKPC's executive leadership and the Owner-Members' Chief Executive Officers ("CEOs") and a consensus was achieved to recommend substantial changes to EKPC's portfolio of DSM programs. Big Sandy Rural Electric Cooperative is in agreement with the proposed changes to EKPC's DSM portfolio of programs and desires to make appropriate changes to its own DSM tariffs so that they continue to be consistent with EKPC's tariffs. Accordingly, please find attached the following materials related to the proposed DSM tariffs to be implemented:

1. Exhibit A – Proposed DSM Tariffs

Copies of the proposed DSM tariffs are collectively filed herewith as Exhibit A. In instances where it is proposed for a tariff to be withdrawn, a tariff sheet will be designated as being reserved for future use, taking the place of the existing tariff provisions is being tendered.

2. Exhibit B – Supporting Documents: Marked-Up Copies of Proposed DSM Tariffs

Also included are copies of the modified DSM Program tariffs for each of the DSM programs listed above. The tariffs are tendered in a format showing the strike-throughs of the existing tariffs for convenience.

3. Exhibit C – Supporting Documents: Customer Notice and Effective Date

Pursuant to KRS 278.180(1), a utility must give at least 30-days' advance notice to the Commission before implementing a new tariff. Therefore, the proposed effective date of these tariff revisions will be March 1, 2019. Pursuant to 807 KAR 5:011, Big Sandy Rural Electric Cooperative has posted the requisite notice at its office located at 504 11th Street Paintsville, Kentucky and will post the requisite notice on its website, no later than five (5) business days from today's date, which will include a hyperlink to the Commission's website where the tariff can be found. Written notice has also been given to members by delivering a copy of the Customer Notice through publication in the February edition of *Kentucky Living* magazine. A copy of the Customer Notice is attached.

While Big Sandy Rural Electric Cooperative requests that these tariffs become effective on March 1, 2019, it recognizes that several of its members are still making economic decisions based upon the tariffs currently in effect. To minimize disruption and surprise to such customers, Big Sandy Rural Electric Cooperative intends to honor all requests for rebates, appliance pick-ups or other existing program benefits that were initiated by members prior to the effective date of these proposed tariffs. Thus, Big Sandy Rural Electric Cooperative anticipates that even when the revised DSM portfolio is approved and in effect, some legacy obligations will remain to be satisfied to fairly and reasonably wind-down the existing tariffed programs.

Please contact me if you have any questions.

Sincerely,



Bruce Aaron Davis
President and General Manager
Big Sandy Rural Electric Cooperative

Enclosures

CUSTOMER NOTICE

Proposed Changes to Demand Side Management (DSM) Programs

Notice is hereby given to the members of: **Big Sandy RECC**, 504 Eleventh Street, Paintsville, KY 41240; **Blue Grass Energy Coop. Corp.**, 1201 Lexington Road, Nicholasville, KY40356; **Clark Energy Coop., Inc.**, 2640 Iron Works Road, Winchester, KY40391; **Cumberland Valley Electric, Inc.**, 6219 North U.S. Highway 25E, Gray, KY 40734; **Farmers RECC**, 504 South Broadway, Glasgow, KY 42141; **Fleming-Mason Energy Coop. Corp.**, 1449 Elizaville Road, Flemingsburg, KY 41041; **Grayson RECC**, 109 Bagby Park, Grayson, KY 41143; **Inter-County Energy Coop. Corp.**, 1009 Hustonville Road, Danville, KY 40422; **Licking Valley RECC**, 271 Main Street, West Liberty, KY 41472; **Nolin RECC**, 411 Ring Rd., Elizabethtown, KY 42701; **Owen Electric Coop., Inc.**, 8205 Highway 127 N, Owenton, KY 40359; **Salt River Electric Coop., Inc.**, 111 West Brashear Avenue, Bardstown, KY 40004; **Shelby Energy Coop., Inc.**, 620 Old Finchville Road, Shelbyville, KY 40065; **South Kentucky RECC**, 200 Electric Avenue, Somerset, KY 42502; **Taylor County RECC**, 625 West Main Street, Campbellsville, KY 42718.

On or about January 30, 2019, the Cooperatives will file proposed tariffs that revise or eliminate certain DSM programs that are currently in effect. The proposed effective date for the tariff changes is March 1, 2019. Each of the DSM tariffs are voluntary in nature. None of the Cooperatives have a DSM Rider in effect, so there will be no change in the rates charged for electric service to any customer class. However, if the proposed tariffs are approved:

- The Heat Pump Retrofit Program will add ductless mini-splits as an eligible primary heat source. Other eligibility criteria will change and incentives will no longer be tied to AHRI ratings.
- The Button-Up Weatherization Program will no longer apply to installing higher efficiency windows and doors and program levels will be abolished in favor of a single incentive. A new standard for measuring attic insulations will be adopted.
- The Touchstone Energy Home Program will increase the minimum efficiency eligibility standard while retaining only two eligibility paths (Blue Grass Energy also retains the option to provide additional services).
- The Residential Direct Load Control Program will no longer apply to new water heaters or any pool pumps and gives greater flexibility in providing the incentive to members.
- The Commercial Direct Load Control Program will now apply to heat pumps, but will no longer apply to new water heaters. Additional device communication requirements will apply.
- The ENERGY STAR® Manufactured Home Program will have a lower incentive payment now given directly to a qualifying member.

The Cooperatives also propose to eliminate the: (1) ENERGY STAR Appliance Program; (2) Appliance Recycling Program; (3) Commercial and Industrial Advance Lighting Program; (4) Industrial Compressed Air Program; and (5) HVAC Duct Seal Program, where applicable.

A person may examine this tariff filing at any of the Cooperatives' respective offices at the addresses listed above. A person may also examine this tariff filing at the Public Service Commission's offices, which are located at 211 Sower Boulevard, Frankfort, Kentucky, Monday through Friday, 8:00 a.m. to 4:30 p.m., or through the Commission's website at <http://psc.ky.gov>. Any comments regarding this tariff filing may be submitted to the Commission through its website or by mail to Kentucky Public Service Commission, Post Office Box 615, Frankfort, Kentucky 40602. The rates contained in this notice are the rates proposed by the Cooperatives, however, the Public Service Commission may order rates to be charged that differ from the proposed rates contained in this notice. A person may submit a timely written request for intervention to the Public Service Commission, at the address listed above, establishing the grounds for the request including the status and interest of the party. If the commission does not receive a written request for intervention within thirty (30) days of the initial publication of this notice, the Commission may take final action on the tariff filing.

**Section DSM –
Heat Pump Retrofit Program**

Purpose

The Heat Pump Retrofit Program provides incentives for residential customers ~~end-use cooperative members (“end-use members”)~~ members to replace their existing resistance heat source with a high efficiency heat pump.

Availability

This program is available to residential ~~end-use~~ members served by Big Sandy Rural Electric Cooperative.

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, or baseboard heat, *electric thermal storage*.
- Existing heat source must be at least 2 years old.
- New manufactured homes are eligible for the incentive.
- ~~Air Conditioning, Heating, and Refrigeration Institute (“AHRI”) ratings may range as follows: Seasonal Energy Efficiency Ratio (“SEER”) minimum 13; Heating Seasonal Performance Factor (“HSPF”) minimum 7.5.~~
- *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*

Incentives

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

<u>AHRI RATING</u>	<u>INCENTIVE TO MEMBER</u>
13 SEER 7.5 HSPF	\$500
14 SEER 8.0 HSPF	\$750
≥15 SEER ≥8.5 HSPF	\$1,000

DATE OF ISSUE: January 30, 2019

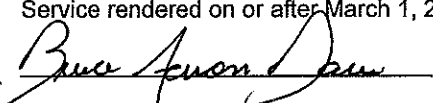
DATE EFFECTIVE: Service rendered on or after March 1, 2019

ISSUED BY: 

<u>Equipment Type</u>	<u>Rebate</u>
Centrally Ducted Systems:	
<i>Current Energy Conservation Standard established by the Federal Department of Energy "DOE"</i>	\$500
<i>Current ENERGY STAR® level equipment or greater</i>	\$750
Mini Split Systems:	
<i>Ducted or Ductless Mini-Splits ENERGY STAR® level equipment or greater</i>	\$250

Term

The program is an ongoing program.

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DATE EFFECTIVE: Service rendered on or after March 1, 2019
ISSUED BY: 

DSM – 4a

Button-Up Weatherization Program

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, installing higher efficiency windows and doors, or by *and* reducing the air leakage of their home.

Availability

This program is available in all service territories served by Big Sandy RECC.

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.
- Eligible dwellings may qualify for one of four levels:

Button Up Level I

~~The insulation portion of the Button-Up incentive will promote the reduction of energy usage on the part of the retail member by providing an incentive of \$40 per one thousand British thermal unit per hour (Btuh) reduced, up to \$520, resulting from improved insulation or installing higher efficiency windows or doors. 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 compensate for lost revenue, the owner member will receive \$30 per thousand Btuh reduced for a total payment of \$70 per thousand Btuh reduced (\$40 per thousand Btuh to the retail member and \$30 per thousand Btuh to the owner member).~~

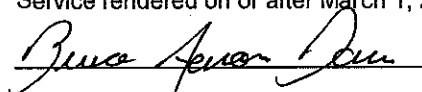
Button Up Level I Payment

~~EKPC will provide a payment of up to \$1,040 to the owner member to cover administrative costs, net lost revenue, and the incentive to the retail member as noted in the Eligibility Section. A blower door test is not required to receive this incentive up to the maximum payment noted herein.~~

DATE OF ISSUE: January 30, 2019

DATE EFFECTIVE: Service rendered on or after March 1, 2019

ISSUED BY:



DSM—4a Button-Up Weatherization Program (continued)

Button Up Level I with Air Sealing

The air sealing portion of 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 Big Sandy RECC representative must perform a "pre" and "post" blower door test to measure actual Btuh reduced. This portion of the incentive will also pay a total payment of \$70 per thousand Btuh reduced and increases the Button Up Level I maximum incentive to \$750 (\$40 per thousand Btuh to the retail member and \$30 per thousand Btuh to the owner member).

The attic insulation portion of the Button Up incentive will promote the reduction of energy usage on the part of the retail members. 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.

Incentives

The Button Up incentive will pay a total payment of \$40 per thousand Btuh reduced to the retail member up to the maximum rebate incentive of \$750.

Button Up Level I with Air Sealing Payment

~~EKPC will provide a payment of up to \$1,545 to the owner member to cover administrative costs, net lost revenue, and the incentive to the retail member as noted in the Eligibility Section. To qualify for the increased maximum payment as noted herein, a blower door test is required.~~

Button Up Level II

~~The Button Up Level II portion of this incentive will promote energy conservation through a whole house approach. This level of incentive is targeted at retail members experiencing high energy bills as a result of excessive heat loss from multiple causes. The incentive promotes the retail member to address all of the problems in their home at one time. Retail members who reduce their home's energy needs by 26,500 Btuh, are eligible for the full Button Up Level I Air Seal incentive plus an additional \$310 for a total of \$1,060. To receive this incentive either an EKPC approved contractor or owner member representative must perform a "pre" and "post" inspection/blower door and duct leakage test of the home to measure actual Btuh reduced. Each home must meet minimum requirements as determined by EKPC.~~

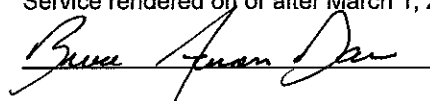
Button Up Level II Payment

~~EKPC will provide a payment of up to \$2,085 to the owner member to cover administrative costs, net lost revenue, and the incentive to the retail member as noted in the Eligibility Section. To qualify for the increased maximum payment as noted herein, a blower door test is required.~~

DATE OF ISSUE: January 30, 2019

DATE EFFECTIVE: Service rendered on or after March 1, 2019

ISSUED BY:



DSM – 4a Button-Up Weatherization Program (continued)

Button Up Level III

~~The Button Up Level III portion of this incentive will promote energy conservation through a whole house approach. This level of incentive is targeted at retail members experiencing extremely high energy bills as a result of excessive heat loss from multiple causes. The incentive promotes the retail member to address all of the problems in their home at one time. Retail members who reduce their home's energy needs by 34,250 Btuh, are eligible for the full Button Up Level I Air Seal incentive plus an additional \$620 for a total of \$1,370. To receive this incentive either an EKPC approved contractor or owner-member representative must perform a "pre" and "post" inspection/blower door and duct leakage test of the home to measure actual Btuh reduced. Each home must meet minimum requirements as determined by EKPC.~~

Button Up Level III Payment

~~EKPC will provide a payment of up to \$2,625 to the owner-member to cover administrative costs, net lost revenue, and the incentive to the retail member as noted in the Eligibility Section. To qualify for the increased maximum payment as noted herein, a blower door test is required.~~

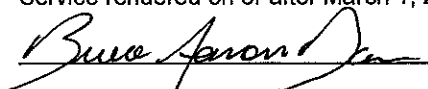
Term

The program is an ongoing program.

DATE OF ISSUE: January 30, 2019

DATE EFFECTIVE: Service rendered on or after March 1, 2019

ISSUED BY:



Section DSM-xx

HVAC Duct Sealing Program

(N)

Purpose

The HVAC Duct Sealing Program offers blower door tests to evaluate and identify costly duct leaks and an incentive to seal leaking ductwork either with traditional mastic sealers or with the *Aeroseal* duct sealing program. Duct losses are to be reduced to 10% or less, and duct loss measurement requires the use of a blower door test and the blower door subtraction method.

Availability

This program is available to residential members in all service territory served by <Name of Coop>.

Eligibility

This program is targeted to single family homes using electric furnaces or electric heat pumps. Eligibility requirements are:

- Limited to homes that have centrally ducted heating systems in unconditioned areas, using only electricity as a fuel source.
- Duct system must be 2 years old or older.
- Initial duct leakage must test greater than 10% of the fan's rated capacity.
- Contractor or Co-op Representative are required to conduct a "pre" and "post" blower door test to verify reductions. Only contractors trained or approved by EKPC may be used.
- Duct leakage per system must be reduced to below 10% of the fan's rated capacity (assuming 400cfm per ton, ex. 2 ton system= 800 cfm, thus duct leakage must be reduced to 80cfm or less). If duct system cannot be reduced to 10% of fan's rated capacity, contractor is expected to provide a detailed justification.
- All joints in the duct system must be sealed with foil tape and mastic. Foil tape alone does not qualify as properly sealing the duct system.
- For homes that have two separately ducted heat systems, each system will qualify independently for the incentive.

Incentive

<Name of Coop> will provide a \$250 incentive to residential members that meet the Eligibility requirements listed above.

Term

The program is an ongoing program.

DATE OF ISSUE: March 30, 2012 DATE EFFECTIVE: Service rendered on and after April 30, 2012.

ISSUED BY _____ TITLE President & Chief Executive Officer

Issued by authority of an Order of the Public Service Commission of Kentucky in

Case No. _____ Dated _____

DSM—3a

Direct Load Control Program – Residential

Purpose

The Direct Load Control Program will encourage the reduction in growth of peak demand, enabling Big Sandy Rural Electric Cooperative 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 Big Sandy Rural Electric Cooperative and will include the control of *existing* water heaters, *existing and new* air conditioners and heat pumps, and ~~pool pumps~~.

Availability may be denied where, in the judgment of Big Sandy Rural Electric Cooperative, 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 Big Sandy Rural Electric Cooperative and have:

- ~~• 40-gallon (minimum) electric water heating units, and/or~~
- Central air conditioning or heat pump units *with single-stage compressors*. ~~and/or~~
- ~~• Pool pumps.~~

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. Big Sandy Rural Electric Cooperative may require that a rental property agreement be executed between Big Sandy Rural Electric Cooperative and the owner of the rented residence.

Program Incentives

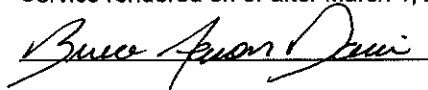
Big Sandy Rural Electric Cooperative will provide an incentive to the participants in this program for the following appliances:

Water Heaters: Big Sandy Rural Electric Cooperative will reimburse *provide* the existing participating residential member \$10.00 per water heater annually *or provide the incentive via other payment means including, but not limited to, a check*. The *existing* participant will receive this credit regardless of whether the water heater is actually controlled.

DATE OF ISSUE: January 30, 2019

DATE EFFECTIVE: Service rendered on or after March 1, 2019

ISSUED BY:



DSM – 3a Direct Load Control Program – Residential (continued)

Air Conditioners and Heat Pumps: Big Sandy Rural Electric Cooperative will provide an incentive to the participants in this program. The participant may select one of two ~~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.

Alternative One: ~~For each direct load control switch, Big Sandy Rural Electric Cooperative will reimburse provide the participating residential member \$20.00 bill credit annually or provide the incentive via other payment means including, but not limited to, a check per air conditioner or heat pump. (\$5 per summer months, June, July, August and September).~~

Alternative Two: When technically feasible, Big Sandy Rural Electric Cooperative may provide and install at no cost one or more digital ~~Wi-Fi enabled~~ thermostats as needed for control purposes or ~~Big Sandy Rural Electric Cooperative 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 Big Sandy Rural Electric Cooperative provided thermostat within 60 days or return it to Big Sandy Rural Electric Cooperative or be invoiced by Big Sandy Rural Electric Cooperative 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. Big Sandy Rural Electric Cooperative will reimburse the participating member \$20 per qualifying Wi-Fi enabled thermostat annually. After the initial selection of one of the alternatives, the participant may change to the other alternative subject to the following conditions:~~

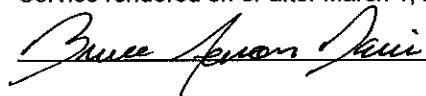
- ~~• From bill credits to digital thermostats – The change in alternative will be permitted in any month except for the summer months of June through September. In addition, the participant will pay fifty percent (50%) of the installed cost of each digital thermostat.~~
- ~~• From digital thermostats to bill credits – This change in alternative will be permitted in any month except for the summer months of June through September. In addition, the participant will either reimburse Big Sandy Rural Electric Cooperative, through the owner-member, an amount equal to fifty percent (50%) of the originally installed cost of each digital thermostat that was initially installed if the participant keeps the thermostat or pay fifty percent (50%) of the cost to remove each digital thermostat that was initially installed.~~
- ~~• Only one change in incentive alternatives will be permitted during a 12-month period.~~

Alternative Three Pool Pumps: Big Sandy Rural Electric Cooperative will reimburse provide the participating residential member \$20.00 bill credit per pool pump ~~qualifying Wi-Fi enable thermostat provided by the retail member that controls an air conditioner or heat pump annually or provide the incentive via other payment means including, but not limited to, a check. Big Sandy Rural Electric Cooperative 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. (\$5.00 per summer month, June, July, August and September). The participant will receive this credit regardless of whether the pool pump is actually controlled.~~

DATE OF ISSUE: January 30, 2019

DATE EFFECTIVE: Service rendered on or after March 1, 2019

ISSUED BY:



DSM – 3a Direct Load Control Program – Residential (continued)

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

Big Sandy Rural Electric Cooperative will provide a special incentive up to \$25.00 for new participants that install a load control switch on qualifying electric water heaters, air conditioners and heat pumps, and or pool 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: A load control switch will be placed on the water heater and 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.

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 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, or AMI, Wi-Fi or similar communication technologies.

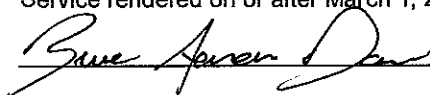
EKPC will control the air conditioning units and heat pumps only during its summer on-peak billing hours listed below and up to (4) four hours per event.

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

DATE OF ISSUE: January 30, 2019

DATE EFFECTIVE: Service rendered on or after March 1, 2019

ISSUED BY:



DSM – 3a Direct Load Control Program – Residential (continued)

~~Pool Pumps: A load control switch will be placed on the pool pump and may be controlled for a six (6) hour curtailment during on-peak days May through September. In addition, there may be a fifty percent (50%) cycling for the ensuing two (2) hour recovery period to prevent creating a new peak.~~

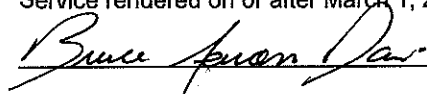
Terms and Conditions

1. Prior to the installation of load control devices, Big Sandy Rural Electric Cooperative may inspect the participant's electrical equipment to ensure good repair and working condition, but Big Sandy Rural Electric Cooperative shall not be responsible for the repair or maintenance of the electrical equipment.
2. EKPC, on behalf of Big Sandy Rural Electric Cooperative, will install, *in some cases*, own, and maintain the load management devices controlling the participant's air conditioner *or* heat pump, *or* water heater *for Alternatives One and Two as noted in this tariff*. The participant must allow Big Sandy Rural Electric Cooperative, or their representative, reasonable access to install, maintain, inspect, test and remove load control devices. Inability of Big Sandy Rural Electric Cooperative to gain access to the load management device to perform any of the above activities for a period exceeding thirty (30) days may, at Big Sandy Rural Electric Cooperative's option, result in discontinuance of credits under this tariff until such time as Big Sandy Rural Electric Cooperative is able to gain the required access.
3. Participants may join the program at any time during the year. ~~Participants with water heaters and/or pool pumps will receive the first annual incentive within twelve (12) months after the installation of the load control device.~~ 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 bill credit incentive is selected, *bill credits incentives will be provided annually.* ~~will not begin until after the installation of the load control device and continue for the months remaining in the June through September time period for that year.~~
4. If a participant decides to withdraw from the program or change incentive alternatives, Big Sandy Rural Electric Cooperative will endeavor to implement the change as soon as possible.
5. 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.

DATE OF ISSUE: January 30, 2019

DATE EFFECTIVE: Service rendered on or after March 1, 2019

ISSUED BY:



DSM—3b

Direct Load Control Program – Commercial

Purpose

The Direct Load Control Program will encourage the reduction in growth of peak demand, enabling Big Sandy Rural Electric Cooperative 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 commercial members in the service territories of Big Sandy Rural Electric Cooperative and will include the control of air conditioners and existing water heaters.

Availability may be denied where, in the judgment of Big Sandy Rural Electric Cooperative, 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 Big Sandy Rural Electric Cooperative and have a central air conditioning *or heat pump* units. ~~and/or a 40-gallon (minimum) electric water heating unit.~~ The appliance may be electrically cycled or interrupted in accordance with the rules of this Tariff.

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

Program Incentives

Big Sandy Rural Electric Cooperative will provide an incentive to the participants in this program for the following appliances:

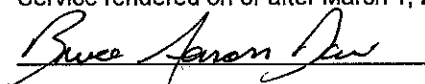
Air Conditioners and Heat Pumps: The incentive will be based on the tonnage of the air conditioning unit. Units up to and including five (5) tons will receive ~~\$5.00~~ 20.00 per unit. Units over five (5) tons will receive an additional annual credit of ~~\$4.00~~ \$4.00 per ton per unit. Big Sandy Rural Electric Cooperative will reimburse the participating commercial-member at the applicable incentive credit *or provide the incentive via other payment means including, but not limited to, a check.* ~~during the months of June through September.~~ The participant will receive the incentive regardless of whether the air conditioner is actually controlled during any program month.

Water Heaters: Big Sandy Rural Electric Cooperative will ~~reimburse~~ *provide* the *existing* participating commercial-member \$10.00 per water heater annually *or provide the incentive via other payment means including, but not limited to, a check.* The participant will receive this credit regardless of whether the water heater is actually controlled.

DATE OF ISSUE: January 30, 2019

DATE EFFECTIVE: Service rendered on or after March 1, 2019

ISSUED BY:



DSM – 3b Direct Load Control Program – Commercial (continued)

Time Period for Direct Load Control Program

Air Conditioners and Heat Pumps: A load control device will be placed on each central air conditioning unit or heat pump that will allow the operating characteristics of the unit to be modified to reduce demand on the system. *The member must have internet for communication. Utility of member supplied Wi-Fi enabled thermostat programs may also be available.* Communication to the load control device or thermostat will be accomplished via AMR, or AMI, Wi-Fi or similar communication technologies.

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

Water Heaters: A load control switch will be placed on the water heater and *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.

~~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.~~

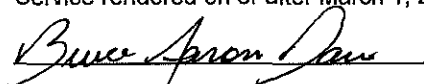
EKPC will cycle the water heaters only during the hours listed below.

<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.

DATE OF ISSUE: January 30, 2019

DATE EFFECTIVE: Service rendered on or after March 1, 2019

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DSM – 3b Direct Load Control Program – Commercial (continued)

Terms and Conditions

1. Prior to the installation of load control devices, Big Sandy Rural Electric Cooperative may inspect the participant's electrical equipment to ensure good repair and working condition, but Big Sandy Rural Electric Cooperative shall not be responsible for the repair or maintenance of the electrical equipment.
2. EKPC, on behalf of Big Sandy Rural Electric Cooperative, will install, *in some cases*, own, and maintain the load management devices controlling the participant's air conditioner unit or *heat pump water heater*. The participant must allow Big Sandy Rural Electric Cooperative, or their representative, reasonable access to install, maintain, inspect, test and remove load control devices. Inability of Big Sandy Rural Electric Cooperative to gain access to the load management device to perform any of the above activities for a period exceeding thirty (30) days may, at Big Sandy Rural Electric Cooperative's option, result in discontinuance of credits under this tariff until such time as Big Sandy Rural Electric Cooperative is able to gain the required access.
3. Participants may join the program at any time during the year. Participants with air conditioning or *heat pumps* who join during the months of June through September will receive *the bill credits annually*, beginning after the installation of the load control device and continuing for the months remaining in the June to September time period for that year. Participants with water heaters will receive the first annual incentive within twelve (12) months after the installation of the load control device.
4. If a participant decides to withdraw from the program, Big Sandy Rural Electric Cooperative 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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DATE EFFECTIVE: Service rendered on or after March 1, 2019

ISSUED BY:

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CANCELLED

ORIGINAL

For All Counties Served
P.S.C. No. 34
First Revised Sheet No. 28
Canceling PSC No. 34
Original Sheet No. 9

BIG SANDY RURAL ELECTRIC COOPERATIVE CORPORATION

Section DSM-5

(N)

Commercial & Industrial Advanced Lighting Program

Purpose

The Commercial & Industrial Advanced Lighting Program is an energy efficiency program that encourages commercial and industrial customers to install high efficiency lamps and ballasts in their facilities.

Availability

This program is available to commercial and industrial facilities located in all service territory served by EKPC.

Eligibility

To qualify for the Commercial & Industrial Advanced Lighting Program the customer must be on a retail commercial or industrial rate. The business must have been in operations for at least two years prior to January 1, 2011, and be current on its power bill payment to the Member System. No empty buildings, inactive warehouses, or inactive storage areas shall qualify. The business must be open or have its normal lighting load on for at least 50 hours per week. Retrofits of parking lot lighting, provided on photocell control, are eligible.

Rebate

EKPC and its Member Systems will provide an incentive to the customer of \$213 for each kW of lighting load reduction for businesses open 50 hours a week or more. EKPC will reimburse the Member System an additional \$320 for each kW of lighting load reduction, which is to compensate for lost revenue. For commercial customers, rebates are limited to \$15,000 per upgrade (total of both customer and distribution system rebates) for any facility. For industrial customers, rebates are limited to \$30,000 per upgrade (total of both customer and distribution system rebates) for any facility.

DATE OF ISSUE Sept. 30, 2011

DATE EFFECTIVE: Service rendered on and after Sept. 30, 2011

ISSUED BY

[Signature]

TITLE

President & Chief Executive Officer

Issued by authority of an Order of the Public Service Commission of Kentucky
Case No. 2011-00148 Dated: September 30, 2011

KENTUCKY PUBLIC SERVICE COMMISSION	
JEFF R. DEBOEN EXECUTIVE DIRECTOR TARIFF BRANCH	
<i>[Signature]</i>	
EFFECTIVE 9/30/2011 PURSUANT TO 807 KAR 6:014 SECTION 9 (1)	

For All Counties Served
P.S.C. No. 34
Original Sheet No. 10

BIG SANDY RURAL ELECTRIC COOPERATIVE CORPORATION

Section DSM-5 (cont.)

(A)

Term

The Commercial & Industrial Advanced Lighting Program is an ongoing program.

Verification Procedure

Qualifying lighting must be identified or documented by EKPC or Member System staff prior to retrofitting. After the customer completes the retrofit, EKPC or Member System staff must verify the installed lighting retrofit. Demand and energy savings will be calculated based on lighting information gathered during the visits. EKPC will utilize the manufacturer's lighting fixture specifications and known measurements to calculate the savings; rebates under this tariff will be paid after these verification procedures are complete.

DATE OF ISSUE Sept. 30, 2011

DATE EFFECTIVE: Service rendered on and after Sept. 30, 2011

ISSUED BY

David E. [Signature]

TITLE President & Chief Executive Officer

Issued by authority of an Order of the Public Service Commission of Kentucky

Case No. 2011-00148 Dated: September 30, 2011

KENTUCKY PUBLIC SERVICE COMMISSION
JEFF R. DEROUEN PRESIDENT & CHIEF EXECUTIVE OFFICER
TARIFF BRANCH <i>Brent Hatley</i>
EFFECTIVE 9/30/2011 PURSUANT TO 807 KAR 6:011 SECTION 9-(1)

Cancelled

For All Counties Served
P.S.C. No. 34
Original Sheet No. 11

BIG SANDY RURAL ELECTRIC COOPERATIVE CORPORATION

Section DSM-6

(N)

Industrial Compressed Air Program

Purpose

The Industrial Advanced Compressed Air Program is a program designed to reduce electricity consumption through a comprehensive approach to efficient production and delivery of compressed air in industrial facilities. The program includes (1) training of plant staff; (2) a detailed system assessment of the plant's compressed air system including written findings and recommendations; and (3) incentives for capital-intensive improvements.

Availability

This program is available to commercial and industrial facilities using electric compressed air applications located in all service territory served by EKPC.

Eligibility

To qualify for the Industrial Compressed Air Program, the customer must be on a retail industrial rate and must be a manufacturing operation with a compressed air system that is turned on during all the operating hours of the facility. The business must have been in operations for at least two years prior to January 1, 2011, and be current on its power bill payment to the Member System.

Rebate

If the customer reduces at least 60% of the compressed air leaks (CFMs), EKPC will reimburse through the Member System to the customer the cost of the original compressed air leakage audit up to \$5,000. The combination of the Member System lost revenue payment and the reimbursement of the compressed air leakage audit costs are limited to \$15,000 for any facility.

DATE OF ISSUE Sept. 30, 2011

DATE EFFECTIVE: Service rendered

ISSUED BY *Alvin [Signature]*

TITLE President & Chief Executive Officer

Issued by authority of an Order of the Public Service Commission of Kentucky

Case No. 2011-00148 Dated: September 30, 2011

KENTUCKY PUBLIC SERVICE COMMISSION	
JEFF R. DEROUEN Executive Director	
TARIFF BRANCH	
<u><i>Brent [Signature]</i></u>	
EFFECTIVE 9/30/2011	
PURSUANT TO 807 KAR 6:011 SECTION 9 (1)	

BIG SANDY RURAL ELECTRIC COOPERATIVE CORPORATION

Section DSM-6 (con't)

(N)

Term

The Industrial Compressed Air Program is an ongoing program.

Verification Procedures

Determination of the amount of leakage reduction:

1. The leakage reduction will be determined by the measured reduction in compressed air leakage.
2. An ultrasonic compressed air leakage audit shall be performed and the results of this audit provided to the customer and EKPC. The report will contain an estimate of the amount of excess load in kW that the leaks are causing. The report will include a detail of leaks detected. The detail of leaks and the excess kW load will be based on the criteria for leak reporting.
3. Upon completion of repairs to the system, a follow-up ultrasonic compressed air leakage audit will be conducted for the documented leaks to measure the difference in the kW leakage load. The follow-up audit report will show the net kW leakage saved and results provided to the customer and EKPC. A lost revenue reimbursement will be paid to the Member System based on the difference in the kW leakage load and the cost of the original air leakage audit will be reimbursed to the customer if a 60% reduction in CFMs air leakage is achieved.

Criteria for leak reporting:

1. The criteria for reporting leaks shall be at the discretion of the auditor. At a minimum the report must detail the leak location, decibels measured, CFM of air leakage, and kW leakage load for each leak and summed for the facility.
2. The basic rule is that leaks that do not exceed 30 decibels in ultrasonic noise will not be reported or counted in the leakage kW load.
3. Exceptions to the 30 decibels rule are as follows:
 - a. In a quiet environment with a minimal amount of compressed air, the minimum will drop to between 15 to 20 decibels.
 - b. In a high noise environment, especially with robotic welding, the minimum will be raised to 40 to 50 decibels.
 - c. Distance is also a factor. A 25-decibel leak in a trunk pipe in a 20-foot ceiling, in a noisy environment, will be documented and added to the leakage kW according to the distance.

DATE OF ISSUE Sept. 30, 2011 DATE EFFECTIVE: Service rendered Public Use Sept 30, 2011

ISSUED BY *Paul Stept* TITLE President & Chief Executive Officer

Issued by authority of an Order of the Public Service Commission of Kentucky
Case No. 2011-00148 Dated: September 30, 2011

KENTUCKY PUBLIC SERVICE COMMISSION
JEFF R. DEROUEN EXECUTIVE DIRECTOR
TARIFF BRANCH
<u><i>Grant Farley</i></u>
EFFECTIVE 9/30/2011
PURSUANT TO 807 KAR 6:011 SECTION 9 (1)

Section DSM – 2Touchstone Energy HomePurpose

In an effort to improve new residential home energy performance, Big Sandy RECC has designed the Touchstone Energy Home Program. This program provides guidance during the building process to guarantee a home that is ~~≥25-30~~ ~~15-20%~~ more efficient than the Kentucky standard built home. The standard built new home in rural Kentucky typically receives a ~~400~~ ~~105~~ on the Home Energy Rating System ("HERS") Index. A HERS Index Score of 100 means the home is built to only moderate levels of efficiency—generally the 2004 International Energy Conservation Code ("IECC").

Availability

This program is available to residential members served by Big Sandy RECC.

Eligibility

To qualify as a Touchstone Energy Home under Big Sandy RECC program, the participating single-family home must be located in the service territory of Big Sandy RECC and must meet the program guidelines following one of the ~~three~~ ~~two~~ available paths of approval. Multi-family dwellings pre-approved by East Kentucky Power Cooperative, Inc. may be eligible.

Prescriptive Path:

- Home must meet each efficiency value as prescribed by Big Sandy RECC.
- Home must receive pre-drywall inspection and complete Big Sandy RECC's pre-drywall checklist (contact the Energy Advisor at Big Sandy RECC for a copy of the checklist)
- Home must receive a final inspection, pass a whole house air leakage test (<7 air changes per hour @50 pascals), and duct leakage test (<10% of the fan's rated capacity).
- Primary source of heat must be an Air Source Heat Pump ~~≥14~~ ~~Seasonal Energy Efficiency Ratio ("SEER")/8.2~~ Heating Seasonal Performance Factor ("HSPF") or Geothermal ~~current ENERGY STAR® specification for Seasonal Energy Efficiency Ratio "SEER" and Heating Season Performance Factor "HSPF" or Geothermal.~~
- Water Heater must be an electric storage tank water heater that is ~~≥ .90~~ Energy Factor (EF) ~~current Energy and Water conservation standards established by the Federal Department of Energy "DOE".~~

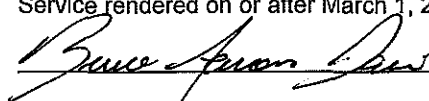
Performance Path Level #1:

- ~~Home must receive a HERS Index score between 80-85 (15-20% more efficient than the KY standard built home)~~
- ~~Home must receive pre-drywall inspection and complete <Insert Coops Name>'s pre-drywall checklist (contact the Energy Advisor at <Insert Coop Name> for a copy of the checklist)~~
- ~~Home must receive a final inspection, pass a whole house air leakage test (<7 air changes per hour @50 pascals), and duct leakage test (<10% of the fan's rated capacity).~~
- ~~Primary source of heat must be an Air Source Heat Pump ~~≥13~~SEER/7.5HSPF or Geothermal~~
- ~~Home must pass 2009 IECC performance path.~~
- ~~Water Heater must be an electric storage tank water heater that is ~~≥ .90~~ (EF)~~

DATE OF ISSUE: January 30, 2019

DATE EFFECTIVE: Service rendered on or after March 1, 2019

ISSUED BY:



Section DSM –2 (continued)

Touchstone Energy Home

Performance Path Level #2:

- Home must receive a HERS Index score of ≤ 75 (At least 24 30% more efficient than the KY standard built home).
- Home must receive pre-drywall inspection and complete Big Sandy RECC's pre-drywall checklist. (contact the Energy Advisor at Big Sandy RECC for a copy of the checklist)
- Home must receive a final inspection, pass a whole house air leakage test (<7 air changes per hour @50 pascals), and duct leakage test ($<10\%$ of the fan's rated capacity).
- Primary source of heat must be an Air Source Heat Pump ≥ 13 SEER/7.5HSPF \geq current Energy and Water conservation standard established by the Federal DOE or Geothermal.
- Home must pass 2009 IECC performance path.current energy code requirements established in the KY Residential Code.
- Water Heater must be an electric storage tank water heater that is \geq current Energy and Water conservation standard established by the Federal DOE.90 (EF)

Prescriptive Path Incentive

Big Sandy RECC will provide an incentive of \$750 to residential members that build their new home to meet the requirements of either the ~~Perscriptive~~ *Prescriptive or Performance* Paths as listed above.

Performance Path Level #1 Incentive

~~<Insert Coops Name> will provide an incentive of \$250 to residential members that build their new home to meet the requirements of the Performance Path Level #1 as listed above.~~

Performance Path Level #2 Incentive

~~<Insert Coops Name> will provide an incentive of \$750 to residential members that build their new home to meet the requirements of the Performance Path Level #2 as listed above.~~

Term

The program is an ongoing program.

DATE OF ISSUE: January 30, 2019

DATE EFFECTIVE: Service rendered on or after March 1, 2019

ISSUED BY: 

Cancelled

PSC KY NO. 34

Big Sandy Rural Electric Cooperative
(NAME OF UTILITY)

Original SHEET NO. 18.1

CANCELLING PSC KY NO.

 SHEET NO.

Schedule DSM – Appliance Recycling Program (cont.)

LANDLORD/TENANT RELATIONSHIPS

Notwithstanding the forgoing, a landlord who owns a qualifying appliance that is used by a tenant who is an end-use member of Big Sandy RECC shall also be eligible to participate in the ARP program regardless of whether said landlord is also an end-use member of Big Sandy RECC. A landlord may be eligible for a maximum of two (2) incentives per metered tenant end-use account per calendar year.

PAYMENT

The end-use member will receive a \$50 incentive (rebate) per qualifying appliance from either Big Sandy RECC or its designated ARP contractor.

TERM

The program is an ongoing program.

DATE OF ISSUE January 13, 2015
MONTH / DATE / YEAR

DATE EFFECTIVE February 13, 2015
MONTH / DATE / YEAR

ISSUED BY
SIGNATURE OF OFFICER

TITLE President & CEO

BY AUTHORITY OF ORDER OF THE PUBLIC SERVICE COMMISSION
IN CASE NO. DATED

CancelledPSC KY NO. 5Big Sandy Rural Electric Cooperative
(NAME OF UTILITY)Original SHEET NO. 133
CANCELLING PSC KY NO. _____

SHEET NO. _____

Section DSM**ENERGY STAR® Appliance Program****PURPOSE**

The ENERGY STAR® Appliance ("ESAP") Program offers an incentive for reducing the energy consumed by household appliances. The end-use cooperative member ("end-use member") may qualify for this incentive (rebate) by purchasing an ENERGY STAR® qualifying appliance type listed in this tariff.

AVAILABILITY

This program is available in all territories served by Big Sandy Rural Electric Cooperative ("Big Sandy RECC").

ELIGIBILITY

This program is targeted to new single or multi-family homes, existing single or multi-family homes or manufactured homes purchasing ENERGY STAR® appliances. Eligibility requirements are detailed below and are available at Big Sandy RECC and on Big Sandy RECC's website.

- Must be a residential end-user member of Big Sandy RECC;
- Product must be certified by the Environmental Protection Agency ("EPA") as an ENERGY STAR® Appliance. Eligible models can be found on ENERGYSTAR.GOV;
- Product must be purchased after October 15th, 2014;
- Product must be fully installed and operational;

DATE OF ISSUE December 10, 2014
MONTH / DATE / YEARDATE EFFECTIVE January 6, 2015
MONTH / DATE / YEARISSUED BY _____
SIGNATURE OF OFFICERTITLE President & General ManagerBY AUTHORITY OF ORDER OF THE PUBLIC SERVICE COMMISSION
IN CASE NO. _____ DATED _____

FOR All Territory Served

PSC KY NO. 5

Original SHEET NO. 133.1

CANCELLING PSC KY NO. _____

_____ SHEET NO. _____

Big Sandy Rural Electric Cooperative
(NAME OF UTILITY)

Section DSM—Continued

- ~~Rebate application must be completed and original receipt or copy must be provided for verification and~~
- ~~Receipt must include the following information:~~
 1. ~~Retailer's Name;~~
 2. ~~Itemized listing of product(s), including description(s), manufacturer(s), model number(s) or other identifying information. The receipt information must match the product information from the rebate application;~~
 3. ~~Purchase price and proof that full payment was made;~~
 4. ~~Purchase date and date of delivery or installment (if installed by a contractor) and~~
 5. ~~For new construction, a Big Sandy RECC advisor ("energy advisor") may enter the rebate application on behalf of the end-use member. For an application entered by the energy advisor, the application must be accompanied by a picture of the appliance model number and serial number. Rebate applications for new construction will only be accepted through an energy advisor.~~

Refrigerators & Freezers

- ~~Refrigerators must be greater than 7.75 cubic feet in capacity and at least 20% more energy efficient than the minimum federal government standard (NAECA).~~
- ~~End-use members may apply for one ENERGY STAR® certified refrigerator and one ENERGY STAR® certified freezer rebate per calendar year per member metered account. A maximum of two (2) rebates within this appliance category (refrigerators and freezers) will be allowed per metered account.~~

DATE OF ISSUE December 10, 2014
MONTH / DATE / YEAR

DATE EFFECTIVE January 6, 2015
MONTH / DATE / YEAR

ISSUED BY _____
SIGNATURE OF OFFICER

TITLE President & General Manager

BY AUTHORITY OF ORDER OF THE PUBLIC SERVICE COMMISSION

IN CASE NO. _____ DATED _____

FOR All Territory Served

PSC KY NO. 5

Original SHEET NO. 133.2

CANCELLING PSC KY NO. _____

_____ SHEET NO. _____

Big Sandy Rural Electric Cooperative
(NAME OF UTILITY)

Section DSM – Continued

Dishwashers

- End use members may apply for one ENERGY STAR® certified dishwasher rebate per premise/location per calendar year. A maximum of two (2) rebates within this appliance category (dishwashers) will be allowed per premise/location.

Clothes Washer

- End use members may apply for one ENERGY STAR® certified clothes washer rebate per calendar year per metered account. A maximum of two (2) rebates within this appliance category (clothes washer) will be allowed per metered account.

Heat Pump Water Heater

- End use members may apply for two ENERGY STAR® certified heat pump water heater rebate per calendar year per premise/location. A maximum of four (4) rebates within this appliance category (Heat Pump Water Heaters) will be allowed per premise/location.

Air Conditioner and Heat Pump

- Rebate application must be completed, signed and returned with an original or copy of the receipt and the Air Conditioning, Heating, and Refrigeration Institute (“AHRI”) certificate obtained from the HVAC installer.
 1. AHRI certificate must list model numbers for the condenser unit (outside unit) and evaporator coil (indoor unit).
- End use members may apply for up to three (3) ENERGY STAR® certified heat pumps or air conditioner rebates per calendar year per premise/location. A maximum of six (6) rebates within this appliance category (air conditioners and heat pumps) will be allowed per premise/location.

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DATE EFFECTIVE January 6, 2015
MONTH / DATE / YEAR

ISSUED BY _____
SIGNATURE OF OFFICER

TITLE President & General Manager

BY AUTHORITY OF ORDER OF THE PUBLIC SERVICE COMMISSION
IN CASE NO. _____ DATED _____

FOR All Territory Served

PSC KY NO. 5

Original SHEET NO. 133.3

CANCELLING PSC KY NO. _____

SHEET NO. _____

Big Sandy Rural Electric Cooperative
(NAME OF UTILITY)

Section DSM – Continued

LANDLORD/TENANT RELATIONSHIPS:

Notwithstanding the forgoing, a landlord who rents to a tenant who is an end-use member of Big Sandy RECC shall also be eligible to participate in the ESAP program regardless of whether said landlord is also an end-use member of Big Sandy RECC. A landlord may be eligible for the same number of incentives per calendar year as a metered tenant end-use member.

PAYMENTS

Big Sandy RECC will provide an incentive (rebate) payment to the end-use member as noted in the following table:

Appliances	End-Use Member Rebate
Refrigerator	\$100
Freezer	\$50
Dishwasher	\$50
Clothes Washer	\$75
Heat Pump Water Heater	\$300
Air Source Heat Pump	\$300
Air Conditioner (Central)	\$300

TERM

The program is an ongoing program.

DATE OF ISSUE December 10, 2014
MONTH / DATE / YEAR

DATE EFFECTIVE January 6, 2015
MONTH / DATE / YEAR

ISSUED BY _____
SIGNATURE OF OFFICER

TITLE President & General Manager

BY AUTHORITY OF ORDER OF THE PUBLIC SERVICE COMMISSION

IN CASE NO. _____ DATED _____

DSM
Heat Pump Retrofit Program

T

Purpose

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

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T

Availability

This program is available to residential members served by Big Sandy RECC.

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Eligibility

This program is targeted to 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:

T

- Incentive only applies when homeowner's primary source of heat is an electric resistance heat furnace, ceiling cable heat, baseboard heat, electric thermal storage.
- Existing heat source must be at least 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.

T

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Incentives

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

T

Equipment Type

Rebate

T

Centrally Ducted Systems:

Current Energy Conservation Standard established by the Federal Department of Energy "DOE"

\$500

Current ENERGY STAR® level equipment or greater

\$750

Mini Split Systems:

Ducted or Ductless Mini-Splits ENERGY STAR® level equipment or greater

\$250

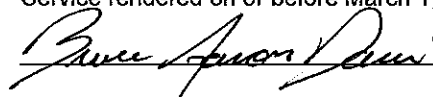
Term

The program is an ongoing program.

DATE OF ISSUE: January 30, 2019

DATE EFFECTIVE: Service rendered on or before March 1, 2019

ISSUED BY:



DSM

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Button-Up Weatherization Program

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 reducing the air leakage of their home.

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Availability

This program is available in all service territories served by Big Sandy RECC.

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.

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 Big Sandy RECC 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 members. 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.

Incentives

The Button Up incentive will pay a total payment of \$40 per thousand Btuh reduced to the retail member up to the maximum rebate incentive of \$750.

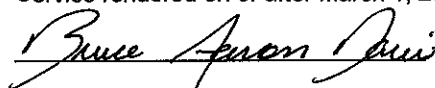
Term

The program is an ongoing program.

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ISSUED BY:



DSM

T

Direct Load Control Program – Residential

Purpose

The Direct Load Control Program will encourage the reduction in growth of peak demand, enabling Big Sandy Rural Electric Cooperative 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 members in the service territories of Big Sandy Rural Electric Cooperative 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 Big Sandy Rural Electric Cooperative, 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 Big Sandy Rural Electric Cooperative and have:

- Central air conditioning or heat pump units with single stage compressors.

T

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. Big Sandy Rural Electric Cooperative may require that a rental property agreement be executed between Big Sandy Rural Electric Cooperative and the owner of the rented residence.

Program Incentives

Big Sandy Rural Electric Cooperative will provide an incentive to the participants in this program for the following appliances:

Water Heaters: Big Sandy Rural Electric Cooperative will provide the existing participating residential member \$10.00 per water heater annually or provide the incentive via other payment means including, but not limited to, a check. The existing participant will receive this credit regardless of whether the water heater is actually controlled.

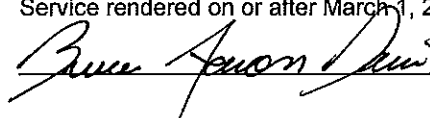
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Air Conditioners and Heat Pumps: Big Sandy Rural Electric Cooperative will provide an incentive to the participants in this program. The participant may select one of three alternatives. The participant will receive one of these incentives regardless 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)

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Alternative One: For each direct load control switch Big Sandy Rural Electric Cooperative will provide the participating residential member \$20.00 bill credit annually or provide the incentive via other payment means including, but not limited to, a check per air conditioner or heat pump.

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Alternative Two: When technically feasible, Big Sandy Rural Electric Cooperative may provide and install at no cost one or more Wi-Fi enabled thermostats as needed for control purposes or Big Sandy Rural Electric Cooperative 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 Big Sandy Rural Electric Cooperative provided thermostat within 60 days or return it to Big Sandy Rural Electric Cooperative or be invoiced by Big Sandy Rural Electric Cooperative 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. Big Sandy Rural Electric Cooperative will reimburse the participating member \$20 per qualifying Wi-Fi enabled thermostat annually.

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Alternative Three: Big Sandy Rural Electric Cooperative will provide the participating residential member \$20.00 bill credit per qualifying Wi-Fi enable thermostat provided by the retail member that controls an air conditioner or heat pump annually or provide the incentive via other payment means including, but not limited to, a check. Big Sandy Rural Electric Cooperative 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.

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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

Big Sandy Rural Electric Cooperative will provide a special incentive up to \$25.00 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.

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Time Periods for Direct Load Control Program

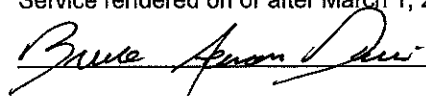
Water Heaters: Existing load control switches may be electrically interrupted for a maximum time period of six (6) hours per event during the May through September months indicated below and for a maximum time period of four (4) hours per event during the October through April months indicated below.

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DSM - Direct Load Control Program – Residential (continued)

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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 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 and heat pumps only during its summer on-peak billing hours listed below and up to (4) four hours per event.

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<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, Big Sandy Rural Electric Cooperative may inspect the participant's electrical equipment to ensure good repair and working condition, but Big Sandy Rural Electric Cooperative shall not be responsible for the repair or maintenance of the electrical equipment.
2. EKPC, on behalf of Big Sandy Rural Electric Cooperative, 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 Big Sandy Rural Electric Cooperative, or their representative, reasonable access to install, maintain, inspect, test and remove load control devices. Inability of Big Sandy Rural Electric Cooperative to gain access to the load management device to perform any of the above activities for a period exceeding thirty (30) days may, at Big Sandy Rural Electric Cooperative's option, result in discontinuance of credits under this tariff until such time as Big Sandy Rural Electric Cooperative is able to gain the required access.
3. 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.
4. If a participant decides to withdraw from the program or change incentive alternatives, Big Sandy Rural Electric Cooperative will endeavor to implement the change as soon as possible.
5. 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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DSM
Direct Load Control Program – Commercial

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Purpose

The Direct Load Control Program will encourage the reduction in growth of peak demand, enabling Big Sandy Rural Electric Cooperative 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 commercial members in the service territories of Big Sandy Rural Electric Cooperative and will include the control of air conditioners and existing water heaters.

Availability may be denied where, in the judgment of Big Sandy Rural Electric Cooperative, 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 Big Sandy Rural Electric Cooperative and have a 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. Big Sandy Rural Electric Cooperative may require that a rental property agreement be executed between Big Sandy Rural Electric Cooperative and the owner of the rented commercial property.

Program Incentives

Big Sandy Rural Electric Cooperative 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 unit. Units up to and including five (5) tons will receive \$20.00 per unit. Units over five (5) tons will receive an additional annual credit of \$4.00 per ton per unit. Big Sandy Rural Electric Cooperative will reimburse the participating commercial-member at the applicable incentive credit or provide the incentive via other payment means including, but not limited to, a check. The participant will receive the incentive regardless of whether the air conditioner is actually controlled during any program month.

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Water Heaters: Big Sandy Rural Electric Cooperative will provide the existing participating commercial-member \$10.00 per water heater annually or provide the incentive via other payment means including, but not limited to, a check. The participant will receive this credit regardless of whether the water heater is actually controlled.

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Grace Ann Davis

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 unit or heat pump that will allow the operating characteristics of the unit to be modified to reduce demand on the system. The member must have internet for communication. Utility of member supplied Wi-Fi enabled thermostat programs may also be available. Communication to the load control device or thermostat 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 and up to four (4) hours per event:

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<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: 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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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.

Terms and Conditions

1. Prior to the installation of load control devices, Big Sandy Rural Electric Cooperative may inspect the participant's electrical equipment to ensure good repair and working condition, but Big Sandy Rural Electric Cooperative shall not be responsible for the repair or maintenance of the electrical equipment.
2. EKPC, on behalf of Big Sandy Rural Electric Cooperative, will install, in some cases, own, and maintain the load management devices controlling the participant's air conditioner or heat pump. The participant must allow Big Sandy Rural Electric Cooperative, or their representative, reasonable access to install, maintain, inspect, test and remove load control devices. Inability of Big Sandy Rural Electric Cooperative to gain access to the load management device to perform any of the above activities for a period exceeding thirty (30) days may, at Big Sandy Rural Electric Cooperative's option, result in discontinuance of credits under this tariff until such time as Big Sandy Rural Electric Cooperative is able to gain the required access.
3. Participants may join the program at any time during the year. Participants with air conditioning or heat pumps who join during the months of June through September will receive the bill credits annually.
4. If a participant decides to withdraw from the program, Big Sandy Rural Electric Cooperative 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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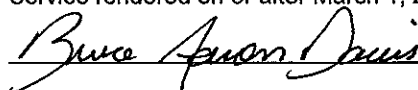
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DSM

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Touchstone Energy Home

Purpose

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

Eligibility

To qualify as a Touchstone Energy Home under Big Sandy RECC program, the participating single-family home must be located in the service territory of Big Sandy RECC and must meet the program guidelines following one of the two available paths of approval. Multi-family dwellings pre-approved by East Kentucky Power Cooperative, Inc. may be eligible.

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Prescriptive Path:

- Home must meet each efficiency value as prescribed by Big Sandy RECC.
- Home must receive pre-drywall inspection and complete Big Sandy RECC's pre-drywall checklist (contact the Energy Advisor at Big Sandy RECC for a copy of the 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[®] specification for Seasonal Energy Efficiency Ratio "SEER" and Heating Season 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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DSM – (continued)

Touchstone Energy Home

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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). T
- Home must receive pre-drywall inspection and complete Big Sandy RECC's pre-drywall checklist. (contact the Energy Advisor at Big Sandy RECC for a copy of the checklist)
- Home must receive a final inspection, pass a whole house air leakage test, and duct leakage test. T
- Primary source of heat must be an Air Source Heat Pump \geq current Energy and Water conservation standard established by the Federal DOE or Geothermal.
- Home must pass current energy code requirements established in the KY Residential Code.
- Water Heater must be an electric storage tank water heater that is \geq current Energy and Water conservation standard established by the Federal DOE.

Incentive

Big Sandy RECC will provide an incentive of \$750 to residential members that build their new home to meet the requirements of either the Prescriptive or Performance Paths as listed above.

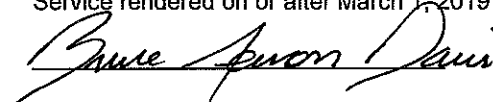
Term

The program is an ongoing program.

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DSM
ENERGY STAR® Manufactured Home Program

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Purpose

Big Sandy RECC's ENERGY STAR® Manufactured Home Program ("ESMH") is designed to ensure that members of Big Sandy RECC purchase an energy efficient manufactured home. Big Sandy RECC 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.

Availability

This program is available to residential members served by Big Sandy RECC.

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 member on lines served by Big Sandy RECC.
- Participants in the ENERGY STAR Manufactured Home Program are not eligible for participation in the Heat Pump Retrofit Program.

Payments

After new home installation and after receiving certification as an ENERGY STAR® manufactured home, Big Sandy RECC will tender a \$1,150 incentive payment to their member. The incentive is intended to help 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.

Term

This program is an ongoing program.

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