

**KANSAS CITY POWER & LIGHT COMPANY**

P.S.C. MO. No. 7

Original

Sheet No. 43Z

Revised

Cancelling P.S.C. MO. No. \_\_\_\_\_

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Revised

For Missouri Retail Service Area

**ECONOMIC RELIEF PILOT PROGRAM**  
**Schedule ERPP**

**PURPOSE:**

The Economic Relief Pilot Program (ERPP) offered by the Company provides an opportunity to relieve the financial hardship experienced by some of our customers. Through this three (3) year pilot\* we shall endeavor to insure this program is a valuable and viable program for customers.

**APPLICATION:**

This ERPP is applicable to qualified customers for residential service billed under Schedule R. The ERPP will, on a pilot basis, provide up to 1,000 participants with a fixed credit on their monthly bill (ERPP credit), for a period up to 12 months from the billing cycle designated by the Company as the participant's first month until the billing cycle designated as the participant's last for ERPP. At the end of the 12 month period, a customer may reapply to participate further in the program through the term of the pilot program.

**DEFINITIONS:**

Qualified Customer – A customer receiving residential service under Schedule R who is classified as low-income by the Missouri Department of Social Service criteria and whose annual household income is no greater than 185% of the federal poverty level, as established by the poverty guidelines updated periodically in the Federal Register by the U.S. Department of Health and Human Services under the authority of 42 U.S.C. 9902 (2).

Applicant – A qualified customer who submits an ERPP application form for the ERPP credit.

Participant – An applicant who agrees to the terms of the ERPP and is accepted by the Company.

Program Funds – Annual ratepayer funding for the ERPP is \$315,000. Ratepayer funding shall be matched dollar for dollar by the Company. The \$630,000 annual sum of ratepayer funding and Company matching funds shall be the "program funds".

Agencies – The social service agencies serving the Company's service territory that qualify and assist ERPP customers pursuant to written contract between the Company and the Agencies.

\* The three year pilot begins on the original effective date of this program.

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**KANSAS CITY POWER & LIGHT COMPANY**

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For Missouri Retail Service Area

**ECONOMIC RELIEF PILOT PROGRAM**  
**Schedule ERPP**

**(Continued)**

**AVAILABILITY:**

Service under this rate schedule shall be available to up to 1,000 participants in the Company's service area who satisfy the following eligibility requirements:

1. Participant must be a customer receiving residential service under the Company's Schedule R.
2. Participant's annual household income must be verified initially, and annually thereafter, as being no greater than 185 percent (185%) of the federal poverty level.
3. Participants who have outstanding arrearages will enter special pay agreements as mutually agreed to by both the Participant and the Company.
4. Participants must provide, via an interview or questionnaire, information related to their energy use and program participation. Any information provided in these interviews or questionnaires that is later made public will not be associated with the participant's name.
5. Any provision of the Company's rules and regulations applicable to the Company's Schedule R customers will also apply to ERPP participants.
6. Participants will not be subject to late payment penalties while participating in the program.

**ENERGY ASSISTANCE:**

1. Participants who have not previously completed an application for a LIHEAP ("Low-Income Home Energy Assistance Program") grant agree to apply for a LIHEAP grant when such grants become available. The Company, through the Agencies, shall assist ERPP participants with completion of LIHEAP application forms when such assistance is requested.
2. Applicants agree to apply for any other available energy assistance programs identified by the Company.

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For Missouri Retail Service Area

**ECONOMIC RELIEF PILOT PROGRAM**  
**Schedule ERPP**

**(Continued)**

**CREDIT AMOUNT:**

Participants shall receive the available ERPP credit for so long as the participant continues to meet the ERPP eligibility requirements and reapplies to the program as required.

Up to 1,000 participants shall receive the ERPP credit in the amount of each participant's average bill for the most recent 12 months bills, not to exceed \$50 per month. The credit amount will be determined by the Company at the time of enrollment.

**DISCONTINUANCE AND REINSTATEMENT:**

The Company will discontinue a participant's ERPP credit for any of the following reasons:

1. If the Company, through the Agencies, determines the participant no longer meets the eligibility requirements set forth in this tariff.
2. If the participant submits a written request to the Company asking that the ERPP credit be discontinued.
3. If the participant does not conform to the Company's rules and regulations as approved by the Missouri Public Service Commission, and as a result the participant has Schedule R service discontinued.

Reinstatement of the ERPP credit following discontinuance in the above circumstances and after the participant again meets the eligibility requirements will be at the discretion of the Company.

**MISAPPLICATION OF THE ERPP CREDIT:**

Providing incorrect or misleading information to obtain the ERPP credit shall constitute a misapplication of the ERPP credit. If this occurs the Company may discontinue the ERPP credit and rebill the account for the amount of all ERPP credits received by the participant. Failure to reimburse the Company for the misapplication of the ERPP credits may result in termination of customer's electric service pursuant to the Company's rules and regulations. However, nothing in this experimental tariff shall be interpreted as limiting the Company's rights under any provisions of any applicable law or tariff.

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For Missouri Retail Service Area

**ECONOMIC RELIEF PILOT PROGRAM**  
**Schedule ERPP**

**(Continued)**

**OTHER CONDITIONS:**

The ERPP program has been designed so that the Company neither profits from nor incurs losses as a result of offering this experimental program.

Costs of administering the program, including those costs charged by the Agencies, shall be paid from the program funds.

The Company will gather and maintain participant data on usage, arrears, payments and other relevant factors to be used in the evaluation of the program.

The Company shall make non-confidential data, as well as any and all program evaluations that are conducted, available to the parties.

The pilot program may be evaluated in any Company rate or complaint case. The evaluation shall be conducted by an independent third party evaluator under contract with the Company, that is acceptable to the Company, Commission Staff and the Public Counsel. The costs of the evaluator shall be paid from the program funds.

If any program funds in excess of actual program expenses remain at the end of the ERPP program, the Company shall redirect the excess funds to tariffed demand-side management programs.

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 For Missouri Retail Service Area

**AMI PROGRAMMABLE THERMOSTAT PILOT PROGRAM  
 FOR THE SMARTGRID DEMONSTRATION AREA  
 Schedule APTP**

**PURPOSE:**

The Advanced Metering Infrastructure (AMI) Programmable Thermostat Pilot Program (Program), deployed within the SmartGrid demonstration area, is intended to provide the Company with: 1) experience with new technologies; 2) an opportunity to learn about Customer behaviors and preferences; 3) the ability to reduce system peak load and thus defer the need for additional capacity; and 4) the ability to mitigate congestion on the distribution system. The Program accomplishes this by raising or lowering the temperature in a Company coordinated effort on the thermostat(s) provided to the Customer.

**DEFINITIONS:**

Programmable Thermostat	A ZigBee enabled device, supported by a two-way communication infrastructure that complies with the National Institute of Standards and Technology (NIST) SmartGrid Interoperability Framework and approved SmartGrid Standards. The device communicates with networked smart devices, such as electricity meters and outlets, and the Energy Management Web Portal.
Program Administrator	Third-party vendor contracted to implement the Program. The Administrator will be responsible for preparation and planning, deployment of the devices, support services, project management, Program reporting, and potentially marketing and outreach. The Company will maintain oversight of the Program.
Advanced Metering Infrastructure (AMI)	A communication network that includes a meter that records consumption in intervals of an hour or less and communicates the information at least daily to Customers and to the Company via the communications network. It also enables two-way communication between the meter and the central system.

**AVAILABILITY:**

This Program will be made available to any current Customer within the SmartGrid Demonstration Area under any generally available residential or small commercial rate schedule (SGS) who has a Company-installed AMI meter. Customers must have a working central air conditioning system of suitable size and technology to be controlled by a programmable thermostat. Residential property owner's (owner occupant or landlord for a rental property) permission is required to participate. Commercial property owner's permission may be required for a tenant to participate. The Company may limit the number of participants based on available Program budget or market saturation.

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**KANSAS CITY POWER & LIGHT COMPANY**

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 For Missouri Retail Service Area

**AMI PROGRAMMABLE THERMOSTAT PILOT PROGRAM  
 FOR THE SMARTGRID DEMONSTRATION AREA  
 Schedule APTP**

**(continued)**

**CONTROLS AND INCENTIVES:**

Participants will receive a programmable thermostat that can be controlled via a signal sent to the unit by the Company or its assignees via broadband or the AMI communication network. During a curtailment event, the Company or its assignee may send a signal to the thermostat that will adjust the thermostat temperature setting. Participants may use the programmable thermostat throughout the year to improve heating and cooling efficiency. The Company may test more than one programmable thermostat during the pilot to test interoperability of the various devices.

**CURTAILMENT METHODS:**

The Company may elect to enact a load reduction strategy by raising or lowering a Participant's thermostat setting. A pre-cooling or pre-heating option is available to customers whereby the temperature of a building is lowered or raised by a few degrees before the start of a curtailment event.

**NOTIFICATION:**

The Company will notify Participants of a curtailment event via one or more of the following communication vehicles: a website, the thermostat, an in home display unit, and/or the Energy Management Web Portal. The notification can occur prior to or at the start of a curtailment event.

**CURTAILMENT SEASON:**

This Program is designed to operate year-round.

**CURTAILMENT LIMITS:**

The Company may call a curtailment event any weekday, Monday through Friday, excluding holidays, with no limit on the total number of curtailments or number of consecutive days curtailed. The Company is not required to curtail all Participants simultaneously and may stagger curtailment events across Participants.

**CURTAILMENT OPT OUT PROVISION:**

A Participant may opt out of curtailment events by notifying the Company at any time prior to or during a curtailment event. Notification must be communicated to the Company via an Energy Management Web Portal, the programmable thermostat device, or by phone. The Energy Management Web Portal software will track customers that have opted out of each event.

**NEED FOR CURTAILMENT:**

Curtailments may be requested for operational or economic reasons. Operational curtailments may occur when any physical operating parameter(s) approaches a constraint on the generation, transmission or distribution systems or to maintain the Company's capacity margin requirement. Economic curtailments may include any occasion when the marginal cost to produce or procure energy or the price to sell the energy in the wholesale market is greater than a Customer's retail price. Some curtailments may also be called to facilitate testing within the SmartGrid Demonstration Area.

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For Missouri Retail Service Area

**AMI PROGRAMMABLE THERMOSTAT PILOT PROGRAM  
FOR THE SMARTGRID DEMONSTRATION AREA  
Schedule APTP**

**(continued)**

**CONTRACT TERM:**

Initial contracts will be for a period lasting the duration of the Pilot Program, terminable thereafter on 90 days written notice. At the end of the initial term, the programmable thermostat becomes the Participant's property; however, so long as the contract is in force, the Company will provide maintenance and repair to the programmable thermostat as may be required due to normal use. If the Participant leaves the Program prior to the end of the initial contract, the Company will have 60 days thereafter to remove the programmable thermostat and/or other control equipment; otherwise, it becomes the Participant's property.

**TERM OF PROGRAM:**

The term of this Program will be October 2010 – December 2014. The Company reserves the right to modify or terminate this Program at any time, subject to Commission Approval.

**EVALUATION:**

The Company's evaluation, measurement and verification (EM&V) consists of multiple parts, including process evaluation, impact evaluation, monitoring, and verification. The Company retains an EM&V contractor to perform process and impact evaluations for its programs in order to avoid conflicts of interest and to insure credibility of the evaluation results. It is anticipated that EM&V would be completed six months prior to the end of the SmartGrid Demonstration Project (June 2014).

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**IN HOME DISPLAY PILOT PROGRAM  
FOR THE SMARTGRID DEMONSTRATION AREA  
Schedule IHD**

**PURPOSE:**

The In Home Display (IHD) Pilot Program (Program) is a voluntary program in which the Company will provide Participants with a device aimed at helping them better manage their energy costs through real-time feedback. The portable device receives a signal directly from the meter or via the internet, which is then used to display the Participant's energy information on a digital display. The IHD is capable of displaying the following information:

- current consumption levels and energy rates
- energy demand and usage on a cost-per-hour basis for up-to-the-minute bill tracking
- visual and/or audible alerts informing the consumer about their usage patterns, price changes, or demand response events
- utility generated text messages (select IHD devices).

The Company may test more than one in home display unit during the pilot to test interoperability of the various devices. The Program will provide the Company with: 1) experience with in home display devices; and 2) an opportunity to learn about Customer behaviors and preferences.

**DEFINITIONS:**

In Home Display	A ZigBee enabled device, supported by a two-way communication infrastructure that complies with the National Institute of Standards and Technology (NIST) SmartGrid Interoperability Framework and approved SmartGrid Standards. The device communicates with certified networked smart devices, such as thermostats, electricity meters and outlets, and displays near real-time information about consumption levels and energy rates.
Program Administrator	Third-party vendor contracted to implement the Program. The Administrator will be responsible for preparation and planning, deployment of the devices, support services, project management, Program reporting, and potentially marketing and outreach. The Company will maintain oversight of the Program.
Advanced Metering Infrastructure (AMI)	A communication network that includes a meter that records consumption in intervals of an hour or less and communicates the information at least daily to Customers and to the Company via the communications network. It also enables two-way communication between the meter and the central system.

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For Missouri Retail Service Area

**IN HOME DISPLAY PILOT PROGRAM  
FOR THE SMARTGRID DEMONSTRATION AREA  
Schedule IHD**

**(continued)**

**AVAILABILITY:**

This Program will be made available to any current Customer within the SmartGrid demonstration area under any generally available residential or small commercial rate schedule (SGS) who has a Company-installed AMI meter. The Company may limit the number of participants based on available Program budget or market saturation.

**PROGRAM PROCESS:**

- The Company or Administrator will promote the Program through mediums that may include direct mail, telemarketing, email, text messaging, social media websites, face-to face interactions, or website promotions.
- The Customer may enroll for the Program via the website or by phone.
- The Company may test different methods of delivery that include:
  - Shipping the IHD directly to the customer
  - Hosting training workshops in which customers will receive an IHD upon successful completion
- Customers will be required to sign a participant agreement form.
- The Company will own the device throughout the duration of the Program and will provide support services.
- Upon completion of the Program Customers will retain ownership of the IHD.
- In the future, estimated to occur in 2011, Customers may choose to integrate the IHD they receive with a Home Area Network at which point the two-way communication will be supported by a broadband connection.

**TERM OF PROGRAM:**

The term of this Program will be October 2010 – December 2014. The Company reserves the right to modify or terminate this Program at any time, subject to Commission approval.

**EVALUATION:**

The Company's evaluation, measurement and verification (EM&V) consists of multiple parts, including process evaluation, impact evaluation, monitoring, and verification. The Company retains an EM&V contractor to perform process and impact evaluations for its Programs in order to avoid conflicts of interest and to insure credibility of the evaluation results. It is anticipated that EM&V would be completed six months prior to the end of the SmartGrid Demonstration Project (June 2014).

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**ENERGY MANAGEMENT WEB PORTAL PILOT PROGRAM  
FOR THE SMARTGRID DEMONSTRATION AREA  
Schedule EMW**

**PURPOSE:**

The Energy Management Web Portal (Portal) Pilot Program (Program) is a key component of the SmartGrid Demonstration Project providing the Customer key usage information and integration of all the smart end uses via a web-based tool. The Energy Management Web Portal Pilot Program will provide Participants with internet access visibility into how their energy is being consumed with graphical displays of their energy consumption and cost information as well as their monthly bill estimate. Participants will be able to view this information by hour, day, month, or year and compare this information to their historical energy usage. In addition, the Portal will provide current pricing information and display a message and alert board where messages from the Company can be displayed. This energy consumption information will help educate the Participant and create engagement by showing how shifts in their energy consumption could lead to lower monthly energy usage.

With the future upgrades to the Portal, Participants will be able to choose to explicitly opt-in or out of demand response events as they occur. Participants will also be able to control the Home Area Network (HAN) hardware including In Home Displays (IHD), Programmable Thermostats and Load Control Switches (LCS) via the Portal. The Program will provide the Company with: 1) experience with an energy management web portal; and 2) an opportunity to learn about Customer behaviors and preferences.

**DEFINITIONS:**

Energy Management Web Portal	Web-based tool providing graphical displays of their energy consumption and cost information as well as their monthly bill estimate. Customers will be able to view this information by hour, day, month, or year and compare this information to their historical energy usage. Customers will also be able to control hardware devices with this tool.
Program Administrator	Third-party vendor contracted to implement the Program. The Administrator will be responsible for preparation and planning, deployment of the devices, support services, project management, Program reporting, and potentially marketing and outreach. The Company will maintain oversight of the Program.
Advanced Metering Infrastructure (AMI)	A communication network that includes a meter that records consumption in intervals of an hour or less and communicates the information at least daily to Customers and to the Company via the communications network. It also enables two-way communication between the meter and the central system.

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**ENERGY MANAGEMENT WEB PORTAL PILOT PROGRAM  
FOR THE SMARTGRID DEMONSTRATION AREA  
Schedule EMW**

**(continued)**

**AVAILABILITY:**

This Program will be made available to any current Customer within the SmartGrid demonstration area under any generally available residential or commercial rate schedule who has a Company-installed AMI meter and Internet accessibility.

**PROGRAM PROCESS:**

The Company or Administrator will promote the Program through mediums that may include direct mail, telemarketing, email, text messaging, social media websites, face-to face interactions, or website promotions. Customers will be able to access a log-in interface via the KCP&L website. Customers who do not have an existing AccountLink account may register for a new account and receive immediate access to their energy information.

**TERM OF PROGRAM:**

The term of this Program will be October 2010 – December 2014. The Company reserves the right to modify or terminate this Program at any time, subject to Commission Approval.

**EVALUATION:**

The Company's evaluation, measurement and verification (EM&V) consists of multiple parts, including process evaluation, impact evaluation, monitoring, and verification. The Company retains an EM&V contractor to perform process and impact evaluations for its Programs in order to avoid conflicts of interest and to insure credibility of the evaluation results. It is anticipated that EM&V would be completed six months prior to the end of the SmartGrid Demonstration Project (June 2014).

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 For Missouri Retail Service Area

**LIGHTING THE GRID PROGRAM  
 FOR THE SMARTGRID DEMONSTRATION AREA  
 Schedule LTG**

**APPLICATION:**

The Lighting the Grid Program (Program) is designed to encourage the replacement of less efficient, energy consuming bulbs by educating Customers on the benefits of the more efficient technology and providing compact fluorescent lights (CFLs) to Customers.

**DEFINITIONS:**

Advanced Metering Infrastructure (AMI)	A communication network that includes a meter that records consumption in intervals of an hour or less and communicates the information at least daily to Customers and to the Company via the communications network. It also enables two-way communication between the meter and the central system.
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**AVAILABILITY:**

This Program will be made available to any current Customer within the SmartGrid Demonstration Area. The Company may limit the number of participants based on available Program budget.

**PROGRAM PROCESS:**

The Company will distribute CFL's to eligible Customers through general distribution. Throughout the Program, in the SmartGrid demonstration area, the Company will distribute and promote the benefits of CFL bulbs to Customers at events such as informational sessions, presentations, or Customer outreach events.

**TERM OF PROGRAM:**

The term of this Program will be from the effective date of the original tariff through December 31, 2014. The Company reserves the right to modify or terminate this Program at any time, subject to Commission approval.

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For Missouri Retail Service Area

**ENERGY EFFICIENCY EDUCATION PILOT  
Schedule EEDP**

**PURPOSE:**

The Energy Efficiency Education Pilot Program (Program) will provide curriculum materials and hands-on learning about saving energy to a selected school district of approximately 100 fourth grade students. The Program curriculum assists the student with developing a clear understanding of the science of energy and builds knowledge of the sources of energy, uses of energy, and the saving and efficiency of energy. Students are also provided hands-on opportunities to learn about energy efficiency through a School Energy Audit, a Home Energy Efficiency Kit, and Classroom Energy Kits.

**DEFINITIONS:**

Classroom Energy Kits

Classroom Energy Kits will be provided by the Program Administrator for use by the teacher to supplement the curriculum based materials. The Classroom Energy Kits will include various types of bulbs, an electricity usage monitor, insulation materials, radiation cans, various thermometers, hygrometer, a light meter, and other materials for hands-on classroom learning.

Home Energy Efficiency Kit

The Company will provide each student with a Home Energy Efficiency Kit. The kit will include compact fluorescent bulbs, adhesive foam tape, pipe insulators, outlet and switch sealers, outlet plugs, low flow showerhead, and kitchen/bath faucet aerator. Each Home Energy Efficiency Kit will include installation instructions and marketing materials about the Company's other energy efficiency programs. Distribution of the Home Energy Efficiency Kit will be coordinated between the teacher and the student's parent.

Program Administrator

A third-party vendor will implement the Program. The Administrator will be responsible for teacher workshop training, website preparation, curriculum materials, Classroom Energy Kits, coordination of Program roll out with the Company and teachers, bi-weekly activity reports, collection of pre and post tests for evaluation of student knowledge, and other tasks as required. The Company will maintain oversight of the Program.

School Energy Audit

The Program Administrator will facilitate an energy audit with a group of students in the selected school and a certified energy manager to learn about the school building and building systems.

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**ENERGY EFFICIENCY EDUCATION PILOT  
Schedule EEDP**

**(continued)**

**AVAILABILITY:**

This Program will be made available to a Company selected school district within the KCP&L-Missouri territory.

**PROGRAM PROCESS:**

The Company will select a school district to implement the Program. The school district may opt to provide the Program within the classroom curriculum or as a specific after-school club. The Program Administrator will offer a one-day workshop to educate teachers and other school faculty about the Program curriculum, Classroom Energy Kits, Home Energy Efficiency Kits, School Energy Audit and website. Teachers will present curriculum to students over an approximate three month period. Teachers will distribute Home Energy Efficiency Kits to parents of students and the Company will maintain a record of each parent receiving the Home Energy Efficiency Kit. The Home Energy Efficiency Kits will include installation instructions as well as information on the Company's energy efficiency programs. Program Administrator will provide for ongoing program metrics data collection and reporting.

**TERM OF PROGRAM:**

The Program will end May 2011. The Company reserves the right to modify or terminate this Program at any time, subject to Commission Approval.

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**AMI HOME AREA NETWORK PILOT PROGRAM  
 FOR THE SMART GRID DEMONSTRATION AREA  
 Schedule HAN**

**PURPOSE:**

The Advanced Metering Infrastructure (AMI) Home Area Network Pilot Program (Program), deployed within the Smart Grid demonstration area, is a voluntary Program providing Participants with a suite of end-use devices aimed to help them better manage their energy costs through real-time feedback of their energy usage. The suite of end-use devices includes the Energy Management Web Portal, a Gateway, a Programmable Thermostat, two Electrical Control Outlet devices, and a Load Control Switch. The Program is intended to provide the Company with: 1) experience with new technologies; 2) an opportunity to learn about Customer behaviors and preferences; 3) the ability to reduce system peak load and thus defer the need for additional capacity; and 4) the ability to mitigate congestion on the distribution system. The Program accomplishes this by exchanging information, including curtailment events, between the meter, end-use devices in the home, and KCP&L via broadband and the AMI communication network.

**DEFINITIONS:**

Energy Management Web Portal	Web-based tool providing graphical displays of a Participant's energy consumption and cost information as well as their monthly bill estimate. Participants will be able to view this information by hour, day, month, or year and compare this information to their historical energy usage. Participants will also be able to control end-use devices and view appliance level energy use with this tool.
Gateway	The ZigBee enabled gateway sends and receives energy-related information to and from the Participant's home to KCP&L, over a secure Internet connection. The private data exchanged between the Participant's home and KCP&L allows the Participant to control their home's energy usage. The data exchanged includes the current energy price, ongoing and historical consumption information, device registration and diagnostics messages, and demand response events sent by KCP&L to devices.
Programmable Thermostat	A ZigBee enabled device, supported by a two way communication infrastructure that complies with the National Institute of Standards and Technology (NIST) Smart Grid Interoperability Framework and approved Smart Grid Standards. The device communicates with networked smart devices, such as electricity meters and Electrical Control Outlets, and the Energy Management Web Portal.
Electrical Control Outlet	The ZigBee enabled Electrical Control Outlet can be plugged into a standard wall outlet to monitor and control the energy efficiency of any 120V electrical appliance or device. The consumption

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**KANSAS CITY POWER & LIGHT COMPANY**

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 For Missouri Retail Service Area

**AMI HOME AREA NETWORK PILOT PROGRAM  
 FOR THE SMART GRID DEMONSTRATION AREA  
 Schedule HAN (Continued)**

and cost information is displayed via the Energy Management Web Portal, giving precise details into how certain electric items are contributing to the Participant's electric bill. The Electrical Control Outlet can be controlled by KCP&L through the use of curtailment events. The Participant has the option of accepting or rejecting participation in such an event directly from the Electrical Control Outlet or from the Energy Management Web Portal.

Load Control Switch (LCS)

The LCS is a ZigBee enabled switch that KCP&L or Participants can use remotely to temporarily turn off connected devices. The LCS is actually two remote switches in one, one switch for line voltage devices such as domestic hot water heaters and another for air conditioning or heating systems that use a lower control voltage. The LCS is a load control device that will be used to shed electrical load. This two-way communication enables utilities to balance demand and supply by reducing consumption and shedding load on large draw appliances and devices.

Program Administrator

Third-party vendor contracted to implement the Program. KCP&L has entered into a contract with Tendril for these services. The Program Administrator will be responsible for implementation planning, deployment of the devices, support services, project management, Program reporting, and potentially marketing and outreach. The Company will maintain oversight of the Program Administrator.

Advanced Metering Infrastructure (AMI)

A communication network that includes a meter that records consumption in intervals of an hour or less and communicates that information at least daily to Participants and to the Company via the communications network. It also enables two-way communication between the meter and the AMI operational control.

**AVAILABILITY:**

This Program will be made available to any current Customer within the Smart Grid demonstration area under any generally available residential rate schedule or small commercial rate schedule (SGS) who has a Company-installed AMI meter and has signed a contract to be a Participant in the Program. Customers must have a working central air conditioning system of suitable size and technology to be controlled by a Programmable Thermostat and a broadband Internet connection in order for the communication exchange to function. The LCS will be an optional device in the Program package. Customers that have a secondary load such as the electric water heater or pool pump will also receive the LCS. Residential property owner's (owner occupant or landlord for a rental property) permission is required to participate. The Company may limit the number of participants based on available Program budget or market saturation.

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For Missouri Retail Service Area

**AMI HOME AREA NETWORK PILOT PROGRAM  
 FOR THE SMART GRID DEMONSTRATION AREA  
 Schedule HAN**

**(Continued)**

To further enhance the Smart Grid pilot program this Program may be offered to residential and small commercial Customers in the Smart Grid demonstration area that have a working window unit air conditioner and/or alternate source of comparable load that is suitable size and technology to be controlled during a curtailment event.

**CONTROLS AND INCENTIVES:**

Participants will receive the package of end-use devices described above that can be controlled via a signal sent to the unit by the Company, or its contractors as directed by the Company, via broadband or the AMI communication network. During a curtailment event, the Company or its contractors as directed by the Company, may send a signal providing instructions for the Programmable Thermostat to adjust the thermostat temperature setting or cycle the unit's compressor on and off. The Company, or its contractors as directed by the Company, may also send a signal providing instructions to the Electrical Control Outlets and LCS to turn off the connected appliance during a curtailment event. The Participant may use the end-use devices year round to monitor and improve energy efficiency in their home.

There is no direct Participant cost to participate in this Smart Grid pilot program.

Today the incentive is the end-use devices. Future Program incentives may include a rewards system centered on energy usage and Program curtailment participation. The Program will be tracked by the Energy Management Portal.

**CURTAILMENT METHODS:**

The Company may elect to enact a load reduction strategy by raising or lowering a Participant's thermostat setting or cycling the unit compressor on and off. The Company may also elect to turn appliances off that are connected to the Electrical Control Outlets and LCS.

**NOTIFICATION:**

The Company will notify Participants of a curtailment event via one or more of the following communication vehicles: a website, the Programmable Thermostat, an in home display unit, and/or the Energy Management Web Portal. The notification can occur prior to or at the start of a curtailment event.

**CURTAILMENT SEASON:**

This Program is designed to operate year-round.

**CURTAILMENT LIMITS:**

The Company may call a curtailment event any weekday, Monday through Friday, excluding holidays, with no limit on the total number of curtailments or number of consecutive days curtailed. The Company is not required to curtail all Participants simultaneously and may stagger curtailment events across Participants.

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For Missouri Retail Service Area

**AMI HOME AREA NETWORK PILOT PROGRAM  
 FOR THE SMART GRID DEMONSTRATION AREA  
 Schedule HAN**

**(Continued)**

**CURTAILMENT OPT OUT PROVISION:**

A Participant may opt out of curtailment events by notifying the Company at any time prior to or during a curtailment event. Notification must be communicated to the Company via an Energy Management Web Portal, the end-use device, or by phone. The Energy Management Web Portal software will track Participants that have opted out of each event.

**NEED FOR CURTAILMENT:**

Curtailments may be requested for operational or economic reasons. Operational curtailments may occur when any physical operating parameter(s) approaches a constraint on the generation, transmission or distribution systems or to maintain the Company's capacity margin requirement. Economic curtailments may include any occasion when the marginal cost to produce or procure energy or the price to sell the energy in the wholesale market is greater than a Participant's retail price. Some curtailments may also be called to facilitate testing within the Smart Grid demonstration area.

**CONTRACT TERM:**

Initial contracts will be for a period lasting the duration of the Program, terminable thereafter on 90 days written notice. At the end of the initial term, the end-use devices become the Participant's property; however, so long as the contract is in force, the Company will provide maintenance and repair to the end-use devices as may be required due to normal use. If the Participant leaves the Program prior to the end of the initial contract, the Company will have 60 days thereafter to remove the end-use devices; otherwise, it becomes the Participant's property. There will be no penalty to the Participant if the Company is unable to remove the end-use devices.

**TERM OF PROGRAM:**

The term of this Program will be November 7, 2011 – December 31, 2014. The Company reserves the right to modify or terminate this Program at any time, subject to Commission approval.

**EVALUATION:**

The Company's evaluation, measurement and verification (EM&V) consists of multiple parts, including process evaluation, impact evaluation, monitoring, and verification. The Company retains an EM&V contractor to perform process and impact evaluations for its programs in order to avoid conflicts of interest and to insure credibility of the evaluation results. It is anticipated that EM&V would be completed six months prior to the end of the Smart Grid demonstration area project (June 2014).

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For Missouri Retail Service Area

**RESIDENTIAL TIME OF USE PILOT PROGRAM  
FOR THE SMARTGRID DEMONSTRATION AREA  
Schedule SGTU**

**AVAILABILITY:**

This Program will be made available to any Customer qualified to receive service under any generally available residential rate schedule within the Smart Grid Demonstration Area who has a Company-installed AMI meter on the premise. Customers who have non-standard meter configurations (i.e. dual meters, Current Transformer-based metering) are not eligible to participate. Customers receiving service under this schedule are precluded from participating in Net Metering, Schedule NM and NMRF.

The Smart Grid Demonstration Area is an area in Kansas City, Missouri that reaches approximately from Main St. to Swope Parkway and 36th St. to 52nd St in Kansas City's urban core. The Company may limit the number of participants based on available Program budget. Customers may sign-up for the Program at anytime during the year and the rates will begin on the first day of the Customer's next billing cycle.

**RATE:**

kWh will be cumulated for billing under this schedule.

**A. RESIDENTIAL GENERAL TIME OF USE:**

Customer Charge (Per Month)	\$9.00
	<u>Summer Season</u>
Energy Charge (Per kWh)	
On-Peak Hours kWh per month	\$0.3784
Off-Peak Hours kWh per month	\$0.0631
	<u>Winter Season</u>
Energy Charge (Per kWh)	
First 600 kWh per month	\$0.09914
Next 400 kWh per month	\$0.05945
Over 1000 kWh per month	\$0.04968

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For Missouri Retail Service Area

**RESIDENTIAL TIME OF USE PILOT PROGRAM  
FOR THE SMART GRID DEMONSTRATION AREA  
Schedule SGTOU**

**(Continued)**

**B. RESIDENTIAL GENERAL TIME OF USE AND SPACE HEAT - ONE METER:**

When the customer has electric space heating equipment for the residence and the equipment is of a size and design approved by the Company and not connected through a separately metered circuit, the kWh shall be billed as follows:

Customer Charge (Per Month) \$9.00

Summer  
Season

Energy Charge (Per kWh)

On-Peak Hours kWh per month \$0.3784

Off-Peak Hours kWh per month \$0.0631

Winter  
Season

Energy Charge (Per kWh)

First 1000 kWh per month \$0.07382

Over 1000 kWh per month \$0.04872

**MINIMUM:**

Minimum Monthly Bill:

- (1) Customer Charge; plus
- (2) Any additional charges for line extensions, if applicable.

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**KANSAS CITY POWER & LIGHT COMPANY**

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For Missouri Retail Service Area

**RESIDENTIAL TIME OF USE PILOT PROGRAM  
FOR THE SMART GRID DEMONSTRATION AREA  
Schedule SGTOU**

(Continued)

**WINTER SEASON:**

Eight consecutive months, spanning the period September 16 to May 15 each year.

**SUMMER SEASON:**

Four consecutive months, spanning the period May 16 to September 15 each year.

**SUMMER ON-PEAK AND OFF-PEAK PERIODS:**

On-peak hours are defined to be the hours between 3 p.m. and 7 p.m., Monday through Friday, excluding week-day holidays during the Summer Season. Off-Peak hours are defined to be all other hours during the Summer Season. Week-day holidays are Memorial Day, Independence Day and Labor Day.

**PROGRAM OPT OUT:**

A Customer may opt out of the program at anytime; however that customer will not be allowed to rejoin the Program during the term of the program. Customers that opt out of the program are immediately placed on the standard bill rate for that billing period. KCP&L will offer to rebill a customer's bill on the standard rate for one billing period when all of the following circumstances apply:

- The customer has requested to opt out of the program
- The customer's previous bill was higher than it would have been on the standard rate
- The customer has expressed concern over their previous high bill to KCP&L

**TERM OF PROGRAM:**

The term of this Program will be January 2012 – December 31, 2014. The Company reserves the right to modify or terminate this Program at any time, subject to Commission approval.

**EVALUATION:**

The Company's evaluation, measurement and verification (EM&V) consists of multiple parts, including process evaluation, impact evaluation, monitoring and verification. The Company retains an EM&V contractor (Navigant) to perform process and impact evaluations for its programs in order to avoid conflicts of interest and to insure credibility of the evaluation results. It is anticipated that EM&V would be completed six months prior to the end of the Smart Grid demonstration project.

**TAX ADJUSTMENT:**

Tax Adjustment Schedule TA shall be applicable to all customer billings under this schedule.

**REGULATIONS:**

Subject to Rules and Regulations filed with the State Regulatory Commission.

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**KANSAS CITY POWER & LIGHT COMPANY**

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For Missouri Retail Service Area

**SOLAR PHOTOVOLTAIC REBATE PROGRAM**  
**Schedule SR**

**PURPOSE:**

The Solar Photovoltaic Rebate Program (SPRP or Program) provides rebates to Missouri electric utility retail customers, pursuant to §393.1030, RSMo, who install new or expanded Solar Electric Systems that become operational after December 31, 2009.

**AVAILABILITY:**

The Program is available to any Customer currently receiving service under any generally available retail rate schedule, with an account that is not delinquent or in default at the time of rebate processing, and has completed the required rebate application. Funds for the Program will be limited by the Company based on the limits of §393.1030, RSMo, 4 CSR 240-20.100, or Schedule NMRF, the Company's Net Metering for Renewable Fuel Sources tariff.

**DEFINITIONS:**

Solar Electric System – a permanently installed, new or expanded system, interconnected and operated in parallel phase and synchronization with an electric utility that has been approved for interconnection by said electric utility, which uses solar modules to convert light into electricity. As installed, the Solar Electric System shall be situated in a location where a minimum of eighty-five percent (85%) of the solar resource is available to the system as verified by the Customer or the Customer's installer at the time of installation. Systems are declared by the Customer to remain in place on the Customer's premises for the duration of its useful life which shall be deemed to be ten (10) years unless determined otherwise by the Commission. The system must consist of equipment that is commercially available and factory new when installed on the Customer's premises and the principal system components (i.e. photovoltaic modules and inverters and excluding battery components) shall be covered by a functional warranty from the manufacturer for a minimum period of ten (10) years.

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For Missouri Retail Service Area

**SOLAR PHOTOVOLTAIC REBATE PROGRAM**

**Schedule SR**

**(Continued)**

**PROGRAM REBATE:**

Customers with installed and interconnected Solar Electric Systems may be eligible to receive a rebate of two (\$2) dollars per installed watt up to a maximum of twenty-five (25) kilowatts (kW) per retail account (\$50,000). For the purpose of determining the amount of rebate, the Solar Electric System wattage rating will be the direct current wattage rating provided by the original manufacturer. Customers will be required to complete a rebate application. Applications will be accepted for pre-approval starting January 1, 2010. Customers will be notified in writing, by letter or email, that the rebate application has been accepted or that the rebate application has not been accepted.

The Customer must notify the Company when the Solar Electric System is ready for interconnection. The Company will verify the Solar Electric System installation at the time of interconnection. A rebate payment will be issued within thirty (30) days of verification. If full operation is not achieved within six (6) months of acceptance of the rebate application, in order to keep eligibility for the rebate offer, the Customer must file a report with the Company demonstrating substantial project progress and indicating continued interest in the rebate. The six (6)-month report shall include proof of purchase of the majority of the solar electric system components, partial system construction, and building permit if required by the jurisdictional authority. Customers who do not demonstrate substantial progress within six (6) months of receipt of the rebate offer, or achieve full operation within one (1) year of receipt of rebate offer, will be required to reapply for any solar rebate.

Rebates will be paid on a first-come, first-served basis, as determined by the Solar Electric Systems operational date. Any rebate applications that are received in a particular calendar year but not approved due to Program funding limitations will be the first applications considered in the following calendar year. Applications accepted by the Company will expire 12 months after receipt if the Customer has not satisfied the terms of this tariff or if the Solar Electric System has not become operational. All Application forms may be obtained from the Company's website [www.KCPL.com](http://www.KCPL.com).

**SOLAR ELECTRIC SYSTEM INTERCONNECTION AND INSPECTION:**

Interconnection of the Solar Electric System shall be made under Schedule NMRF, the Net Metering for Renewable Fuel Sources tariff approved by the Commission for customer-owned renewable generation. The Solar Electric System shall meet all of the requirements of Schedule NMRF to be considered for rebate under this Program.

The Company reserves the right to audit and inspect Customer owned Solar Electric Systems for which it has paid a rebate, at any reasonable time, with prior notice of at least three (3) business days provided to the Customer. Advance notice is not required if there is reason to believe the Solar Electric System poses a safety risk to the Customer, the premises, the Company's electrical system or the Company's personnel.

**SOLAR RENEWABLE ENERGY CREDIT (S-REC):**

The Customer retains ownership of all S-REC's created by the operation of the solar electric system. The Company may at its discretion, offer a standard contract for the purchase of S-RECs created by the customer's installed solar electric system.

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**Part Night Lighting  
Schedule PNL**

**AVAILABILITY:**

In accordance with the *Non-Unanimous Stipulation and Agreement as to Outdoor Lighting Issues* approved by the Commission in Case Nos. ER-2010-0355 and ER-2010-0356, the Company will offer a Part-Night Lighting Tariff, the rates and terms for which will be developed upon customer request and approved by the Commission.

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For Missouri Retail Service Area

**MUNICIPAL STREET LIGHTING SERVICE  
LIGHT EMITTING DIODE (LED) PILOT PROGRAM  
Schedule ML-LED**

**AVAILABILITY:**

Electric service is available under this schedule at points on or adjacent to Company's existing secondary distribution lines in incorporated communities associated with Mid-America Regional Council (MARC) and having received grant money to install efficient street lighting. This Pilot Program will continue for a minimum of two years.

This service is exclusive to the MARC associated incorporated communities of Gladstone, Liberty, North Kansas City, and Peculiar, consistent with the terms of their respective agreements with MARC. Applicable for the lighting of public streets, alleys and thoroughfares in urban or platted suburban areas. This rate schedule is not applicable for lighting of any privately owned roads, drives, etc., or for flood lighting installations or to lighting of athletic fields, recreation areas, swimming pools, parking lots and other similar projects either public or private.

**TERM:**

This Pilot Program shall last a minimum of two years pursuant to the individual agreements with member MARC communities.

**EQUIPMENT AND SERVICE PROVIDED:**

The MARC contractor will install the following items designated as a standard LED street lighting fixture:

1. A standard LED fixture(s) will consist of approved LED lighting – replacement retrofit or new fixture – established within the respective MARC agreements with the associated communities for use in this Pilot Program. The character of the circuit (series or multiple) and the voltages supplied to the fixture will be determined by the Company.
2. Standard LED fixtures will be installed on existing street light poles or distribution circuit poles owned by the Company. Company's standard overhead extensions consists of a properly sized wood pole(s), an arm not to exceed ten feet (10'), a maximum of two hundred feet (200') of secondary circuit and a transformer if required.
3. Standard LED fixtures may also be installed on existing street light poles or distribution circuit poles owned by the Company being served by an underground circuit. Company's standard underground extension consists of a properly sized wood pole, secondary cable, pole riser, ten foot (10') arm, a maximum of two hundred feet (200') of secondary circuit from the Company's underground distribution system and a transformer if required.

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For Missouri Retail Service Area

MUNICIPAL STREET LIGHTING SERVICE
LIGHT EMITTING DIODE PILOT PROGRAM
Schedule ML-LED

RATE (LED):

The rates charged for 11.1 and 11.2 below are exclusively for the purposes of the Pilot Project and are not reflective of rates that may be associated with a LED lighting schedule upon completion of pilot period study.

11.0 Basic Installation:

Street lamps equipped with hood, reflector, and refractor, on wood poles serviced from overhead circuits by an extension not in excess of 200 feet per unit: (Code OW)

Table with 2 columns: Size of Lamp, Rate per Lamp per Year\*. Rows include Small LED (<= 7000 lumens) at \$210.96 and Large LED (> 7000 lumens) at \$234.96.

\* Twin lamps shall be two times the rate per single lamp per year.

12.0 Optional Equipment: The following rates for Optional Equipment shall be added to the rate for Basic Installation listed in 11.1 and 11.2 above for LED installations only.

12.1 Ornamental steel pole instead of wood pole, additional charge per unit per year \$14.64. (New installations are available with underground service only).

12.2 Aluminum pole instead of a wood pole, additional charge per unit per year \$36.84. (Available with underground service only).

12.3 Underground service extension, under sod, not in excess of 200 feet. Additional charge per unit per year \$62.04.

12.4 Underground service extension under concrete, not in excess of 200 feet. Additional charge per unit per year \$237.00.

12.5 Breakaway base. Additional charge per unit per year \$33.96. (Available with underground service only).

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For Missouri Retail Service Area

**MUNICIPAL STREET LIGHTING SERVICE  
LIGHT EMITTING DIODE PILOT PROGRAM  
Schedule ML-LED**

**REPLACEMENT OF UNITS:**

During this Pilot Program the standard type and quantity of fixtures available for installation hereunder shall be established by MARC through agreement with the communities on the basis of the fixture's quality, capital and maintenance costs, long term availability, general customer acceptance and other factors.

This Pilot Program will be only available on existing street light locations and shall replace the existing fixture at least during the Pilot Program period. Overhead service shall be provided unless the existing local distribution system is underground.

Customer shall reimburse Company or pay for the full cost to change out the existing fixture to an LED lighting fixture. Customer agrees not to propose or request changing the location of the LED fixture once installed or to remove the LED fixture prior to the end of the Pilot Program evaluation period.

Fixtures installed under this Pilot Program that fail may be replaced with standard fixtures available under the Company's existing street light tariffs if the existing fixture is no longer available or is determined by the Company to not meet the evaluation criteria for the Program.

**BURNING HOURS:**

Unless otherwise stated, lamps are to burn each and every day of the year from one-half hour after sunset to one-half hour before sunrise, approximately 4100 hours per year.

**EVALUATION AND PROGRAM RESULTS:**

This Pilot will evaluate the feasibility and efficacy of a variety of streetlight technologies and vendors in a variety of settings. MARC will prepare quarterly reports and a final report and evaluation at the conclusion of the project. Reports and other deliverables will be provided by MARC in accordance with the Federal Assistance Reporting Checklist. The Company will utilize these evaluations in conjunction with other LED testing results to determine the suitability of LED street lighting. If the technologies are suitable, new tariffs will be established by the Company to guide further deployment.

**TAX ADJUSTMENT:**

Tax Adjustment Schedule TA shall be applicable to all customer billings under this schedule.

**REGULATIONS:**

Subject to Rules and Regulations filed with the State Regulatory Commission.

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