



**PASCOAG**  
UTILITY DISTRICT

Pascoag Electric • Pascoag Water

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RIPUC Docket 4297

Pascoag Utility District's  
Revised Demand Side Management  
Program 2012

RIPUC DOCKET NO. 4297

**Pascoag Utility District  
Electric Department**

In Re: Pascoag Utility District's  
Revised Demand Side Management Program-2012

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December 12, 2011

Ms. Luly Massaro  
Clerk of the Commission  
Rhode Island Public Utilities Commission  
89 Jefferson Blvd.  
Warwick RI 02888

Re: RIPUC Docket No. 4297

Dear Ms. Massaro:

On behalf of Pascoag Utility District ("Pascoag" or the "District"), we herewith file an original and nine copies of Pascoag's Revised Proposed Demand Side Management Program for 2012. This submission includes Pascoag's revised Schedules A through D which has incorporated corrections, changes and clarification as indicated by Pascoag's responses to Division's data request. Schedules D through J in the original filing dated December 5, 2012 will not change.

If you have any questions please do not hesitate to contact me.

Very truly yours,

Harle J. Round  
Customer Service Supervisor/DSM Coordinator

Cc: Mr. Jon Hagopian, Esquire  
Mr. William Bernstein, Esquire

Pascoos Utility District  
Demand Side Management Programs - 2012 Proposed

Estimated carry over from 2011	\$ 28,659
Estimated sales for 2012	\$ 106,000
Net 2012 budget	\$ 134,659

**2012 Proposed Budget**

<b>Residential Program</b>	
DR1201 ENE Residential Conservation (ECHO)	\$ 2,400 12 months @ \$200
DR1202 Home Energy Audits with Incentives	\$ 2,500 10 home Energy Audits @ \$200 & 10 incentives of \$50 incentive
DR1203 Energy Star Appliance Rebates	\$ 10,000 up to a maximum of 86 appliance rebates
DR1204 Appliance Buy Back Refrigerators/Freezer	\$ 1,000 \$50 for Refrigerator or Freezer up to 20 rebates
DR1205 Energy Efficient Windows/Doors	\$ 3,000 up to 200 window at \$15 or up to 75 doors at \$40
DR1206 Healing System Incentive	\$ 4,000 16 Rebates at \$250
DR1207 ENERGY STAR qualified Water Heaters	\$ 1,000 10 Rebates at \$100
DR1208 Energy Star Thermostats/Lighting fixtures	\$ 1,000 up to 20 rebates at \$50
DR1209 Home Office Equipment/Home Electronics	\$ 3,500 70 Rebates at \$50
DR1210 Electric Heat Conversion/Geothermal System:	\$ 100 To keep the line item open
DR1211 New Construction	\$ 2,080 4 Rebates at \$520 Maximum
DR1212 Central Air Conditioner Incentive	\$ 1,000 5 Rebates at \$200
DR1213 Change a Light Campaign	\$ 500 10 Rebates at \$50
DR1214 Energy Conservation Calendars	\$ 3,815 2012 Energy Savers Calendars- purchase 1000 calendars
DR1215 Smart Power Straps	\$ 500 25% rebate ( average cost is between \$27-\$37)
DR1216 Committed for 2011 Programs	\$ 5,750 To be funded with carry over funds
<b>Net Residential</b>	<b>\$ 42,145</b>
<b>Industrial/Commercial</b>	
D11201 Energy Star Incentive - Office Equipment	\$ 500 10 Rebates at \$50
D11202 The Brothers of the Sacred Heart	\$ 5,000
D11203 Country Farm Project	\$ 4,975 Motors, Lighting, Cool Controls
D11204 Committed Funds- Lighting Projects	\$ 10,000 Money to be available for Commercial & Industrial Energy Efficiency Projects.
D11205 Consultation Fees	\$ 1,000 To consult with Rise, National Grid, & ENE
D11206 Energy Star Commercial Appliance	\$ 700 2 Appliances up to a maximum of \$350
<b>Net Industrial/Commercial</b>	<b>\$ 22,175</b>
<b>Administrative/Ad/Education</b>	
DA1201 Administrative	\$ 20,500 Administrative Labor, Mileage, supplies, Training session/ luncheon for the CSR's
DA1202 Funds for Follow-up to Successful Programs	\$ 3,180 To be used on more successful programs
DA1203 Outreach/Education	\$ 14,000 Billings items, Energy Saving Coloring books, Culver conservation items, purchase LE A unit meters, Echo Conservation Booklets
DA1204 BHS Project	\$ 3,500 To partner with one of the Schools on an Energy Efficiency project
DA1205 PUD 6th Annual Public Power Green Festival	\$ 9,000 To fund the open house in 2012
DA1206 Energy Efficiency Management continuing education	\$ 4,500 Tuition, Flight, Hotel, meals, books,
DA1207 Program Research and Development	\$ 1,000 Street light incentives
DA1208 Pilot Program for LED Street Lights	\$ 14,659 Fund earmarked for a possible Street Light Pilot Program
<b>Net Administrative/Ad/Education</b>	<b>\$ 70,339</b>
<b>Estimated DSM 2011 Budget/ Expenses/ Balance</b>	<b>\$ 134,659</b>

**Pascoag's 2012 Demand Side Management Program**  
**Executive Summary: Submitted by Harle J. Round**

**Residential Programs:**

The Residential Programs proposed by Pascoag Utility District for 2012 will closely mirror our 2011 programs, with adjustments to some of the line items based on activity in the programs over the past year. The District will be adding three new programs under the residential category: a Refrigerator/Freezer Buy-back, ENERGY STAR Solar Hot Water Heater/ ENERGY STAR Electric Heat Pump Hot Water Heater incentive and a Smart Strip incentive.

Products that earn the ENERGY STAR trademark prevent gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. Most consumers today realize that by purchasing ENERGY STAR qualified products they can reduce their own energy consumption. It is the District's goal to encourage our customers to continue to buy ENERGY STAR compliant products to help control consumption, demand, and reduce greenhouse gas emissions that are contributing to global warming. ENERGY STAR compliant appliances and electronics are being positioned as part of the solution to rising energy costs, and the need for energy efficiency to reduce greenhouse gas emissions. The ENERGY STAR programs that we have in place continue to experience a high customer demand.

However, The District will continue to monitor its programs and will seek permission to reallocate funds should certain programs not perform to expectations. The District has seen a decrease in activity in some of the programs in 2011. We believe that some of these decreases are due to the economic conditions, and believe that the programs will continue to be utilized by our customers. The District will be adjusting the 2012 line item budget according to this year's activity.

Energy New England ('ENE') - The energy hot line continues to be a very good resource for the residential customer. Customers with questions about high energy demand can call the toll free number for assistance. Many questions can be answered over the phone. The customer is also offered a home energy audit. Pascoag Utility District is a member of the Energy Advisory committee that meets three to four times a year and discusses the latest information on energy conservation issues. ENE also attended our Green Public Power Festival to discuss energy conservation and home energy audits with interested customers. The ENE fee will remain at \$200 per month in 2012.

ENERGY STAR Audits are a very educational tool for homeowners. ENE performed eight audits as of November 2011. Each home owner was given a report on ways to save energy. Many of the upgrades that are suggested in the audits correspond with programs set up for rebates by the District. It is our finding that the customers will take the report and over several years replace things like the boiler, windows, doors, appliances, programmable thermostats, light fixtures, and light bulbs, thereby taking advantage of the applicable rebates. Two customers have implemented some of the suggestions and received the incentives related to the upgrades in 2011.

The District would like to continue to offer the home energy audits in 2012. The District would like to keep the number of audits at ten at a cost of \$200 each and have \$500 available for audit recommendations that are not covered by the rebate programs.

Rebates for ENERGY STAR Appliances continue to be one of our most popular programs. The District submitted a request to reallocate funds to the appliance line item in October due to the depletion of funds by August of 2011. The District is proposing a budget of \$10,000 in 2012.

The District would like to add a Refrigerator/Freezer Buy-Back Program in 2012. This program would encourage our customers to reduce their power bills by giving up an old inefficient refrigerator or freezer, by offering them an incentive of \$50. This will cut the demand of each refrigerator/freezer that is removed and save between 1,250 to 2,225 kWh annually. The District is proposing a budget of \$1,000.

The ENERGY STAR Window and Door incentive had an approved budget, of \$6,000 in 2011. The activity for this line item decreased in 2011, therefore the District is proposing to reduce this line item, in 2012, to \$3,000. The rebate would remain at \$15 per window and \$40 per door with a maximum of 10 windows and 1 door.

ENERGY STAR Heating Systems program had an approved budget of \$6,000 in 2011. The activity for this line item also decreased in 2011. The District would like to fund this line item at \$4,000 in 2012. The rebate of 10% up to \$250 will remain the same.

New this year, the District would like to add an incentive for Energy Star qualified Heat Pump Water Heaters and Energy Star Solar Water Heater in combination with an electric hot water heater. Heating water accounts for approximately 15 % of a home's energy use. High efficiency water heaters use 10 to 50 percent less energy than standard models, saving homeowners money on their utility bills. The District is proposing a rebate of 5% up to a maximum rebate of \$100, with a budget of \$1,000.

ENERGY STAR Thermostats/Lighting Fixtures with a budget of \$600 was depleted in July 2011. The District reallocated funds to this line item in October and expect more demand for rebates with the onset of winter. The District would like to add ENERGY STAR ceiling fans/light combination units and ventilation fans. The District would like to continue this line item again next year and increase the budget to \$1,000.

ENERGY STAR Home Office/Electronic equipment with an approved budget of \$3,000 has processed 49 rebates totaling \$1,890. The District would like increase the funding for this program to \$3,500 in 2012.

The District seeks to retain the line item for Incentives for Electric Heat Conversion /Geothermal Systems at a budget of \$100. This will continue to leave the line item open should we have a request to convert from electric heat to another source or if we receive a request for a geothermal system.

New Construction rebates remains slow as a direct result of the economy. The District processed three rebates at the Mill Pond 2011. The District is requesting to fund this program at the same level in 2012. This line item continues to entice the contractors to install ENERGY STAR qualified equipment, which will result in more efficient homes. The \$2,080 request will allow the District to process four rebates.

Central Air Conditioning had a budget of \$1,000 in 2011. The District has processed three rebates in 2011. The temperatures this summer were above average and may have contributed the continued request for central air conditioning rebates. The District would like fund this program at \$1,000, in 2012.

The District would like to continue the "Change a Light, Change the World Campaign." Our customers were asked to take a pledge to help change the world one light, one energy-saving step at a time. The District has processed \$53 in rebates, and continues to promote this program. The District also purchased 14 & 19 watt CFL's that will be sold for half price to the Districts' customers. The District would like to fund this program next year at the same level of \$500.

The digest size calendars called eco@home were not as popular with the customers because of their small size. In 2012, the District would like to purchase the Energy Conservation Calendars that we have purchased in the past. These calendars highlight an energy efficiency tip each month, and the District is able to customize the calendar with a page dedicated to promoting the DSM programs and incentives that are offered. This would increase the Calendar line item from \$850 to \$3,815 in 2012.

New in 2012, the District would like to introduce a "Smart" Power Strip incentive. Today's electronics continue to draw electricity that we pay for but do not use. The "Smart" power strip prevents this waste by plugging the main device (computer, TV, etc.) into the primary outlet and its peripherals (printer/scanner or VCR/cable box, etc.) into the other outlets. When the main device is shut down the high-tech sensors detect this and shut everything else down. The Smart power strips can save up to 72% of the energy a system uses, eliminating 640 lbs. of CO2 per year and also offers state-of-the-art surge protection. The District would like to offer an incentive of 25% up to a maximum of \$25 with a budget of \$500.

The District is estimating a carryover of \$28,659 from 2011; the District will use \$22,909 of this carryover in the 2012 budget and would like to place \$5,750 into a line item called Committed for 2011 rebates. This would allow us to use these funds to satisfy any outstanding qualified applications in the various residential programs, where the funds have been depleted. In 2011 the District was able to satisfy \$13,735 in rebates that qualified in 2010 but the funds were depleted. If the carry over funds placed in the Committed for 2011 Program exceeds the request for qualified rebates, the District proposes moving these funds to the Follow-up to Successful Programs line item and would then seek permission from the Public Utility Commission and Division of Public Utilities and Carriers, to reallocate the funds as needed in 2012.

## **The Commercial and Industrial Programs**

The ENERGY STAR Office Equipment and Electronics Program that was available to our Commercial and Industrial customers continued to be active this year. We have processed two rebates totaling \$100. The District would like to continue this program with the same level of funding for 2012, with \$500.

### Lighting Projects completed in 2011:

- The Berean Baptist Church Lighting Project qualified for a 50% rebate, totaling \$1556.50, on a retrofit lighting project
- The St. Joseph Church Lighting Project qualified for a 50% rebate, totaling \$295.25.
- Valliere Realty LLC has installed new outside lighting at the shopping plaza and received a 30% incentive totaling \$990.

The District identified several lighting projects for 2011. The following businesses had energy audits completed with RISE Engineering but none of the businesses have moved forward with the recommendations; these businesses included: the Austin T Levy School, Knights of Columbus, Café at the Falls, Burrillville Motors, and Matrix.

Over the past several years the District has worked hard to create programs that are utilized by our customers. The outreach and educational programs that have been undertaken have resulted in a greater awareness of the importance of conserving energy. The District would like to increase the incentives for the commercial and industrial lighting projects back to 60% for retrofit lighting and 40% for new lighting projects, up from the 2011 level of 50% and 30%, respectively. The District is hoping that by offering more of an incentive this might encourage the businesses, which had audits in 2010 and 2011, to go forward with their respective projects in these tough economic times.

The District has only identified two projects for 2012:

The Brothers of the Sacred Heart is interested in doing a retrofit lighting project. The District would like to allocate \$5,000 to this line item.

Country Farms has had an energy audit performed by National Resource Management Inc. They have submitted a refrigeration proposal and a lighting proposal. Both proposals would qualify for a 60% rebate with a total incentive of \$4,975.

Committed Lighting Projects and Energy Efficiency Measures - In 2011, the District was able to accommodate St. Josephs Church. The District would like to continue to fund this line item with \$10,000 to accommodate lighting projects and energy efficiency projects that have not been identified. This would allow us to have funds available and give us some flexibility should

a commercial or industrial customer want to go forward with a new or retrofit lighting project or other energy efficiency measure on a first come first serve basis.

If the requests for incentives for these measure do not pick up by mid-year in 2012, the District would like to use some of these funds to hold a business breakfast with the commercial and industrial customers to discuss the types of incentive that are available to help improve their energy efficiencies.

The Consultation fees line item is funded at \$1,000 to provide assistance from National Grid, RISE Engineering, or Energy New England with the calculation of energy savings on commercial and industrial projects. In 2012, we would like to fund this line item at \$1,000.

ENERGY STAR Commercial Appliances had no activity in 2011. The District visited local businesses and made them aware of the commercial rebates. Most of the businesses in the area expressed the need for smaller residential appliances for their community and employee rooms. The District is requesting a budget of \$700 and would like to offer the same rebates that it offers for the residential appliances and make them available under this line item for the commercial customers.

#### **The Administration/Ad/Education**

The District is requesting an increase of \$500 to the Administrative line item in 2012. The District staff spends many hours reconciling the budgets, processing rebates, working with potential rebate customers, reporting to the State of Rhode Island Public Utility Commission, and researching new programs. The budget for the Administration line item will increase to \$20,500 to cover the time spent to oversee this most worthwhile endeavor. The District would also like to have a training session with the customer service representatives to ensure they are able to discuss the criteria for the various programs with the customers; this training session would also include a luncheon.

In October of 2011 the District moved the Funds for Follow-Up to Successful Programs to our more successful residential programs. The District would like to keep this line item open in 2011 with \$3,180.

The District continued the Customer Outreach Program in 2011. The District worked with Soleil to update our conservation programs and rebate forms on the web site, advertise in the Bargain Buyer, and fund a couple of billing inserts promoting the DSM Programs. The District used some of the funds to purchase energy conservation coloring books and Energy Matter booklets for the C & I customers.

The District would like to continue the Outreach and Education line item in 2012 and fund it with \$14,000. This will allow the District to update the website with the programs for 2012 at [www.pud-ri.org](http://www.pud-ri.org). The District would also use some of these funds for advertisements in the Bargain Buyer, utilize bill inserts with our programs in 2012, purchase energy efficiency material to educate our customers, which will include the Eco News Letter, booklets on energy

efficiency, along with energy conservation materials purchased at Culver Company. The District would also like to purchase a couple of Kill-a-Watt meters and make them available to the customers with energy consumption questions. The District feels this would be a great educational tool.

The 5<sup>th</sup> Annual Public Power Green Festival was hosted on Saturday, September 17, 2011. The open house highlighted energy conservation flyers and conservation giveaways. There were activities for children which included a coloring contest, decorate a plastic helmet, and bucket rides, as well as face painting, a puppet show, and a coloring contest.

Over forty Green Vendors attended this year along with the Burrillville Farmers market. The District hosted a table on energy conservation along with raffle items that were donated by the vendors and local businesses to raise money for the Burrillville Farmers Market. For a donation of \$2.00, the donor received a bracelet that entitled them to cotton candy and an ENERGY STAR cloth bag filled with energy conservation and fulfillment items. The Pascoag Fire District sold hotdogs, hamburgers and bottled water to raise funds for the community. This event continues to grow each year both in attendance and vendor participation. By hosting this event at our office it ensures that our customers are receiving the benefits of being educated with the latest in energy efficiency products. We would like to fund the line item for Outreach/Education at \$9,000 in 2012.

Burrillville School Project- the District would like to keep this line item open. The District is currently looking for a teacher to partner with. The District is proposing a reduced budget of \$3,500 in 2012.

Energy Efficiency Management Certificate program was held in Austin, Texas in May of 2011. The classes were very informative and well worth the investment. The APPA Academy helps electric utility employees stay abreast of the latest technologies available in Demand Side Management and goes into great discussions on what programs are working with other utilities across America. APPA is offering two courses in energy efficiency: Residential Energy Services that Work and Commercial Energy Services that Work. The District feels this would be a beneficial educational opportunity for the DSM Coordinator to attend. The District would like to fund the Energy Efficiency Management Education line item at \$4,500 to participate in one of the APPA Educational Conferences offering these courses in 2012.

The District would like to add a line item called "Program Research and Development". The District would like to fund this line item with \$1,000 to give us the ability to research a Street Light Incentive program. The money would be used to do site visits with municipals that have implemented the light-emitting diodes (LED) streetlamps and would allow us to fully research and develop a plan for incorporating this into the Demand Side Management Program with an incentive of 60% to 80%. The potential for savings would be great but the District would like to thoroughly research the available technology. The public streetlights in Pascoag are paid

through an assessment on each customer's electric bill of sixty-four cents per month. Harrisville Fire District pays for the streetlights in the Town of Harrisville through the fire taxes.

The District would like to earmark \$14,659 of the carryover funds into a line item called "Pilot Program for LED Street Lights. The District is in the early stages of researching the LED street light technology. The average LED Street light costs between \$600 and \$900. The District would not move forward on the pilot program without consulting the Division first.

The funding for the 2012 Demand Side Management Program is based on the 2.0 mills per kilowatt-hour assessment established by legislation. A residential customer using 500 kWh pays a \$1.00 on their monthly electric bill for these conservation programs or about \$12.00 per year. The customer has seen the DSM assessment since its inception, and there is a separate line item on the monthly unbundled electric bill identifying this conservation cost.

Pascoag's proposed budget is based on a forecast of Sales for 2011 of 52,936,354 kWhr. The estimated budget is rounded up to \$106,000 for 2011. The District anticipates a \$28,659 carryover fund from 2011 which would bring the total budget to \$134,659.

2012 Program Details- Residential, Commercial and Industrial, Administrative/Ad and Customer Education and Outreach

***Residential Programs***

In 2012, Pascoag plans to continue all of the current Residential Programs from 2011. The customer demand still continues and the District believes these programs will continue to be successful in 2012. The District will modify the budget amounts based on the activity in 2011 and will also add an appliance buyback on refrigerators and freezers, an incentive on ENERGY STAR Water Heaters, and an incentive on smart power strips. This Summary will detail the programs proposed for 2012 and will review the success of the 2011 programs.

**Energy New England – Residential Conservation Services \$2,400:**

Pascoag will continue its relationship with Energy New England (“ENE”) in 2012. The Residential Conservation Service (“RCS”) provides invaluable technical support to the District staff as well as its customers.

In addition to this support, ENE supplies fulfillment materials to the customers of the District. The materials include energy smart CD’s, conservation booklets, and reference materials and resources. ENE sponsors a toll free energy hot line that is available to customers during normal business hours. Pascoag refers customers with high consumption complaints to this hot line after performing a meter test to rule out a faulty meter. If the customers’ questions can not be resolved over the phone, ENE schedules a home energy audit which goes into greater detail as to how the customer can conserve energy. This year Pascoag tested over seventeen meters\*<sup>1</sup> and sent letters to each customer referring these customers to the toll free energy hot line. ENE attended the 5<sup>th</sup> Annual Green Festival and answered energy related questions and handed out flyers on energy conservation.

ENE also sponsors an Advisory Group. The Advisory Group includes people from several municipal utilities from the entire New England area. This group meets quarterly to share ideas on all aspects of energy conservation. Pascoag is a member of the Advisory Group.

The cost for this service will remain at \$200 per month in 2012.

**Audits with Follow-Up Incentives-\$2,500:**

Pascoag would like to provide ten audits in 2012, along with a maximum rebate of \$50 for incentive follow-up. This would allow the following:

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<sup>1</sup> \* Meters were proven to be within acceptable accuracy limits

10- Audits @ \$200 each	\$2000
Money available for Incentives 10@\$50 each	\$500

ENE price remains the same in 2012 at \$200 for each home energy audit. Measures that are often suggested by Energy New England include insulation for the walls and attic, weather stripping, pipe insulation, and electrical outlet insulation. The District does not have rebates for these items and would like to continue to offer a rebate of 10%, up to \$50 per customer, to encourage them to implement these recommendations. The suggested measures must be implemented in the same calendar year as the audit to qualify for the incentive and can not be a duplicate of a program already established for rebates. New this year the District will evaluate this program by performing a survey to see if the customers are utilizing the suggestion they are given in the comprehensive audits from ENE.

Pascoag has no auditors on staff, and it is more cost effective to use ENE's certified auditors.

#### **ENERGY STAR Appliance Rebates: \$10,000**

Pascoag would like to fund this line item at \$10,000 in 2012. This program continues to be our most popular program. The District had depleted the approved budget of \$6500 in August 2011. Additional funds were reallocated to this program in October. When a customer purchases an appliance they have to remember that it has two price tags: what you pay to take it home and what you pay for the energy and the water it uses. ENERGY STAR compliant models use 10-50% less energy and water compared to the standard models.

A compliant washer uses 37% less energy and 50% less water over the life of the washer, saving enough money to pay for the matching dryer. A compliant dehumidifier uses 15% less energy than a standard model; a compliant dishwasher uses 10% less energy than a standard model; a compliant refrigerator or and freezer uses 50% less energy than one made before 1993 and is 20% more efficient than the minimum federal standard; a compliant air conditioner uses 10% less energy than a standard model; and a room air cleaner uses 35% less than the standard models. By reducing energy consumption with ENERGY STAR qualified appliances customers save money by using less, helping to reduce greenhouse gas emissions and helping in the fight against climate change.

Many of the District customers now call before making an appliance purchase to make sure the models they are interested in qualify for rebates.

A residential customer purchasing an ENERGY STAR compliant appliance will receive a rebate of up to 10% not to exceed the following for each appliance; refrigerator, freezer, and clothes washer up to \$75. A customer purchasing an ENERGY STAR compliant dishwasher or air purifier will receive an incentive up to

\$50; an ENERGY STAR air conditioner will receive an incentive up to \$25; an ENERGY STAR dehumidifier will receive incentive up to \$20.

**Refrigerator/Freezer Buyback Program: \$1,000**

The District would like to offer a refrigerator/freezer buyback program in 2012. This program will encourage our customers to reduce their power bills by giving up an old inefficient refrigerator or freezers. An average 14 year old spare refrigerator or freezer uses between 1,250 and 2,225 kWh per year and can amount to 25% of the annual electricity used in a typical household. The Energy Star web site estimates there are 16.9 million inefficient freezers and 12.7 million inefficient refrigerators, all over 10 years old, in use across America. By offering a \$50 incentive the District is hoping to remove a total of 20 refrigerators or freezers and ensure that they don't end up back on the grid in someone else's home. A second refrigerator/freezer removal program will cut demand and reduce the residential energy consumption.

The customer must contact the District office so we can verify the following requirements for a second refrigerator or freezer:

- They must be between 10 to 30 cubic feet using inside measurements.
- The refrigerator or freezer must be in working order.
- The customer will fill out a form with the model and make of the refrigerator/freezer and give the approximate age.

Once this criteria is verified the customer will be instructed to call Coastal Recycling at 1-800-266-3188 to schedule an appointment to pick up the appliance. Once the pickup is verified the customer will receive a \$50 rebate that will be applied to their electric account.

The District would like to fund this line item at \$1,000 with a rebate of \$50 which will allow us to process 20 incentives.

**ENERGY STAR Windows/Skylights and Doors Incentive: \$3,000**

The District would like to fund this line item at \$3000 in 2012. The budget for 2011 was \$6,000 and in September the District has processed \$1,820 in rebates. The demand for this program is still there but not as strong as previous years, therefore the District would like to reduce the funding for this line item to \$3,000.

When a customer purchases ENERGY STAR compliant windows and doors and sky lights for the northern area, they will realize energy savings in lower energy use. These windows and doors also help reduce heat loss in winter and offer protection from the summer sun, and reduce condensation and interior fading. ENERGY STAR qualified windows, doors and skylights keep your home cooler in the summer and warmer in the winter.

The District will keep the incentive at \$15 per window, up to a maximum of ten windows per customer and \$40 per door, allowing one door per customer. To qualify all windows and doors must meet energy efficiency standards of a U-factor of .35 or lower.

**ENERGY STAR Heating System Incentives: \$4,000**

The District would like to fund this program for heating system replacement at \$4,000, in 2012. The demand for this program continues but has decreased in 2011. The District issued 6 rebates totaling \$1,500, as of October of 2011.

With the price of fuel to heat a home today, many homeowners are replacing their older systems with ENERGY STAR compliant gas and oil boilers/furnaces and making every drop of fuel count. Although these products are expensive to purchase up front, the cost difference is paid back over time through lower energy bills.

The ENERGY STAR compliant oil and gas furnaces have annual fuel utilization efficiency (AFUE) ratings of 83% and 90%, or higher, making them up to 15% more efficient than standard models.

ENERGY STAR qualified boilers have annual utilization efficiency (AFUE) rating of 85% or greater. Whether the fuel is gas or oil, they use about 6% less energy than a standard boiler, they achieve greater efficiency with improved features like electronic ignition that eliminates the need to have a pilot light burning all the time; new combustion technologies that extract more heat from the same amount of fuel; and sealed combustion that uses outside air to fuel the burner, reducing drafts and improving safety.

The District would like to keep the incentive at \$250 in 2012. This will allow sixteen customers to take advantage of this program.

**ENERGY STAR Solar and Electric Heat Pump Water Heaters: \$1,000**

New this year, the District would like to offer an incentive on ENERGY STAR qualified solar hot water heaters and ENERGY STAR heat pump water heaters. The potential for savings are listed below:

ENERGY STAR Solar Water Heaters can be used in combination with another back-up system. Using the sunshine to heat or preheat the water in combination with an electric tank water heater as backup will save \$250 a year on the electric bill, and reduce the load on the electric water heater by 2,500 kWh per year.

ENERGY STAR Heat Pump Water Heaters can save the average household \$300 per year compared to a standard electric hot water heater. A General Electric GeoSpring hybrid electric heat pump water heater uses 1,856 kWh per year compared to the standard electric tank water heater that uses 4,881 kWh per year, a savings of 3,025 kWh or \$423 at 14 cents per kWh.

The District is proposing a rebate of 5% of the cost, not to exceed \$100. This would allow us to process 10 rebates in 2012.

**ENERGY STAR Thermostats/Lighting Fixtures/Ceiling and Ventilation Fans:  
\$1,000**

The District would like to fund this program at a slightly higher level in 2012. We would like to continue the fifty percent rebate on lighting fixtures and programmable thermostats and add ENERGY STAR ceiling and ventilation fans. The District processed eighteen rebates totaling \$637, depleting the funds. Additional funds were reallocated to this program in October.

A programmable thermostat automatically adjust a home's temperature setting and allows the customer to save energy while sleeping and while away from home. These units save energy by offering four convenient, pre-programmed temperature settings that allow the temperature to be scaled back on heating or cooling the home. Many homeowners work outside of the home during the day and have different schedules on the weekend. These programmable thermostats allow them to scale back on the heat and cooling during these periods of time and save up to an average of \$150 per year. The return on the investment is usually within one year. When leaving for a weekend or on a vacation by pushing the hold button on an energy saving temperature they can realize even more savings.

ENERGY STAR qualified lighting fixtures use one-quarter less energy than traditional lighting. They distribute light more efficiently and more evenly than the standard fixture. They come in hundreds of decorative styles including portable fixtures, like table, desk and floor lamps, and hard-wired fixtures options like front porch, dining room, kitchen ceiling and under-cabinet, hallway ceiling and wall bathroom vanity fixtures and ceiling fan lighting fixtures. Many fixtures have convenient features such as dimming on some indoor models and automatic daylight shut-off and motion sensors on outdoor models. Replacing the five most used fixtures in a home with ENERGY STAR qualified models can save up to \$70 each year in energy cost.

New this year the District would like to add ENERGY STAR ceiling fans/light combination units and ventilation fans. ENERGY STAR qualified ventilation fans are 60% more efficient than standard models, operate with less noise, have high performance motors, and improved blade design that provides better performance.

The ENERGY STAR qualified ceiling fan/light combination units are over 50% more efficient than standard models, use improved motors and also have a better blade design.

The incentive will remain at 50%, with a cap of \$50.

**Home Office Equipment/Home Electronics: \$3,500**

The District would like to fund this line item at \$3,500 in 2012. The incentives for this line item will remain 15% of the cost, up to a maximum rebate of \$50. The District has processed \$1,890 in rebates through October. The District feels that the office and electronic rebates will continue to be strong especially in the month of December.

ENERGY STAR compliant office equipment such as computers, monitors and imaging equipment like printers and copiers help to eliminate waste through special energy efficient designs. They use less electricity and when they are not in use enter into a low-power mode. The specifications for many office products continue to change making it more difficult to earn the ENERGY STAR label. The products now use as much as 60% less electricity than standard equipment. If every home office product purchased in the United States this year met ENERGY STAR requirements, we would save more than \$100 million in annual energy cost, prevent 1.4 billion pounds of green house gases, equivalent to taking 125,000 cars off the road, and save more than 900 million kWh of electricity. The products that fall under office equipment are: computers, copiers, fax machines, digital duplicators, external power adapters, notebook computers/tablet PC's, mailing machines, computer monitors, digital picture frames, printers, scanners, all in one units, water coolers, and computer servers.

ENERGY STAR compliant home electronics use as much as 60% less energy. Even when these electronics are off they use power for features like clock displays and remote controls. The average home has roughly two TVs, three telephones and a DVD player. Approximately 10% of a household's power use is devoted to TV-related activities. There are about 275 million TV's currently in use in the U.S., consuming over 50 billion kWh of energy each year. An average size ENERGY STAR qualified TV uses 40% less energy than a standard model, an ENERGY STAR qualified 60-inch television will be, on average, 60 % more efficient than a standard model. ENERGY STAR qualified TV's are viewed with an on mode power consumption level that allows a consumer to realize a savings by curbing the energy associated with downloading program guide data. Set-top boxes are getting more energy intensive. In fact, a home using two set-top boxes is using significantly more electricity than it takes to run a new refrigerator – roughly 500 kWh, every year. ENERGY STAR qualified set-top boxes are at least 40 % more efficient than conventional models.

The products that fall under home electronics are audio/ video, battery charging systems, digital-to-analog converter boxes, cordless phones, and combination units, external power adapters, televisions and set-top boxes imaging equipment.

The District would like to fund this line item at \$3,500 with a rebate of 15% not to exceed \$50.

**Incentives for Electric Heat Conversion/ Geothermal Systems or a Ground Source Heat Pump (GHP): \$100**

Although the District has no firm commitments for this line item, we would like to continue to keep the line item open because of the potential savings. Pascoag had several customers that converted from electric heat to oil heat in the past and one customer who installed a geothermal system in 2010. The District has many other electric heat customers that may decide at a future date to convert.

The geothermal heat pumps are similar to ordinary heat pumps, but they use the ground instead of the outside air to provide heating, air conditioning and hot water. By using the earth's natural heat they are among the most efficient and comfortable heating and cooling technologies currently available. They use about 30% less energy than a standard heat pump, and they are quieter than a conventional system.

ENERGY STAR certified heat pumps must meet the following specifications:

Closed Loop System:	14.1 EER <sup>2</sup>
Open Loop System:	16.2 EER
Direct Expansion (DX)	15.0 EER

Therefore the District would like to keep this line open should there be any future request. Geothermal heat pumps also qualify for tax credits of 30% of the cost with no upper limits through December 3, 2016.

The incentive would be 5% of the cost with a maximum rebate of \$350.

**New Construction Rebates: \$2,080**

The District has processed three rebates in 2011.

This line item is an excellent way to encourage the contractors to upgrade to ENERGY STAR compliant windows, doors, skylights, heating systems, appliances, programmable thermostats, lighting fixtures, central air conditioning, and water heaters. Since the current building code in the town of Burrillville does not require the contractors to install Energy Star compliant products, the District feels this program is a great way to encourage energy efficiency in the construction process and to reduce the demand for electricity from these new housing developments.

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<sup>2</sup> Energy Efficiency Ratio (EER) is the ratio of output cooling to the input of power.

The District would like to continue to fund this program at \$2,080 in 2012. The budget of \$2080 will allow us to process four rebates with a cap of \$520 per unit/home in 2012:

ENERGY STAR Boiler/Furnace	\$250
ENERGY STAR Windows/Sky Lights, limit of 10 @ \$15	\$150
ENERGY STAR Doors, limit of 1 @ \$40	\$40
ENERGY STAR Appliances at \$50 each	\$50
ENERGY STAR Thermostats/Lighting Fixtures	\$20
ENERGY STAR Solar and Electric Heat Pump Water Heater	\$100
Central Air Conditioning, with an SEER of 14 or greater	\$200

**Central Air Conditioning: \$1,000**

The District has processed three rebates totaling \$600 in 2011. The District would like to continue the funding for this line item at \$1,000 in 2012.

About one-seventh of all the electricity in the US is used to air condition buildings. ENERGY STAR qualified central air conditioners have a higher seasonal efficiency rating (SEER) than standard models, which makes them 14 % more efficient than standard models. For a customer to qualify for this program they must purchase a central air conditioner with a SEER of 14 or greater, EER of 11.5.

The incentive will remain at ten percent, not to exceed \$200.

**Change a Light Campaign: \$500**

The ENERGY STAR Light Campaign is a national challenge to encourage every American to help change the world, one light – one energy saving step – at a time. The District became a pledge driver in 2008 and has invited our residential electric customers to take a pledge to do their part to save energy and help reduce the risk of global climate change by replacing at least one light in their homes with an ENERGY STAR qualified one (CFL) or to purchase ENERGY STAR qualified LED light strings for the holiday. The District collected 15 pledges at the 5<sup>th</sup> Annual Green Festival. We will continue to ask our customers to take the pledge on line at: [http://www.energystar.gov/index.cfm?fuseaction=globalwarming.showPledge&cpd\\_id=1809](http://www.energystar.gov/index.cfm?fuseaction=globalwarming.showPledge&cpd_id=1809), so we can continue to track the total pledges for Pascoag Utility District.

The ENERGY STAR label on lighting means you are getting a product that is superior in energy efficiency. ENERGY STAR qualified compact fluorescent light bulbs (CFLs) use seventy-five percent less energy than incandescent bulbs and last six to ten times longer. ENERGY STAR decorative light strings use 70% less energy than conventional incandescent light strings, last ten times longer, and are cool to the

touch. The ENERGY STAR qualified decorative light strings that feature LED technology are 90% more efficient. The electricity consumed by just one 7-watt incandescent bulb, can power 140 LEDs or enough to light a 25 foot string of LEDs.

The District purchased CFL's in 2011 with DSM funds and continues to sell the bulbs with an instant rebate of 50%. This continues to be very popular with our customers. The District would like to purchase more light bulbs in 2012 to sell for half price when our current supply is depleted.

The District proposes a rebate of 50% of the cost of the light bulbs with a cap of \$50 per customer.

#### **Energy Conservation Calendars: \$3,815**

Last year the District purchased a digest sized booklet style calendar that includes dozens of easy-to-do, low cost strategies for making your home more energy efficient. The covers promoted and displayed our name, web site, and phone number. The customers were disappointed in the size of the calendar but they did agree that the booklet sized calendars had very helpful suggestions on conserving energy.

This year, the District would like to purchase one-thousand energy conservation calendars. These calendars are produced by Energy Savers and feature energy saving tips each month. It shows the customer what to look for when purchasing ENERGY STAR compliant products, and is a great way to advertise our programs, since the calendars will also feature our 2012 programs and rebate amounts on the inside page. The calendars are much larger and were more popular with customers in previous years.

The total budget requested for this line item is \$3,815 for one-thousand calendars which includes the cost of printing, shipping, and personalizing the calendars with our rebate information.

#### **"Smart" Power Strips: \$500**

New this year, The District would like to offer an incentive on smart power strips. They are a way to reduce the amount of power being drawn by computers and electronic accessories when they are not in use. The smart power strips monitor power consumption and can sense the difference between when a device is on or off and can shut the power off, eliminating the idle current being drawn from the item. Most smart power strips have two always-on outlets, a master control outlet and 2-6 controlled outlets that automatically turn off or on as the master appliance is turned on or off.

A study by the Department of Energy showed that 15% of the energy used in the average home is just for standby current. The smart power strips save on average \$30 per year.

The District is proposing a 25% rebate up to a maximum rebate of \$25.

**Committed for 2010 Programs: \$5,750**

In 2011 the Public Utilities Commission allowed the District to create a line item called "Committed for 2010 Programs" and fund it with money that was carried over from the 2010 DSM budget. This allowed us to place a carryover of \$13,735 from 2010 into this line item and rebate 163 customers who had submitted qualified rebates for programs in which the funds had been depleted.

The District is estimating a carryover of funds from 2011 at \$28,659. The District will use \$22,909 of these funds in the 2012 budget and use \$5,750 to satisfy 2011 qualified rebates for customers who do not receive a rebate because the funds for a particular program had been depleted in 2011. If the carry over funds exceed the request for qualified rebates, the District is proposing to move these funds to the Funds for Follow-up to Successful Programs line item.

***Commercial and Industrial Programs***

**ENERGY STAR Incentive – Office Equipment/Electronics: \$500**

The District issued three incentives totaling \$116 through October of 2011. The District continues to promote this program. The District would like to continue this program at the same level of funding in 2012.

The office equipment and electronics have the same savings that are mentioned in the Home Office Equipment/Home Electronics program. The incentive will remain at 25% of the cost, with a cap not to exceed \$50.

**Industrial and Commercial Projects 2011:**

**2011 Berean Baptist Church Lighting Project**

The Berean Baptist Church qualified for a 50% rebate on a retrofit lighting project totaling \$1,556.50.

**2011 St. Joseph Church Lighting Project**

St Joseph's Church qualified for a 50% rebate totaling \$295.25. They replaced their incandescent bulbs with 90 ES Globe Lamps that reduce the electric usage for each bulb to 19 watts.

#### **2011 Valliere Realty LLC**

Valliere Realty LLC has installed new outside lighting at the shopping plaza. The District has performed the final site visit and will rebate the project with a 30% incentive totaling \$990.00

#### **2011 Austin T Levy Lighting Project**

An Audit was performed by RISE engineering in 2011 for a retrofit lighting project, but because of the lack of available funds, will not move forward on this lighting project in 2011.

The District identified four business that were interested in receiving energy audits for possible rebates in 2011; the Knights of Columbus, Café at the Falls, Burrillville Motors, and Matrix. The audits for these projects were performed by RISE Engineering and reviewed with the various businesses but none of the businesses have moved forward with their lighting projects.

#### **2012 Lighting Projects:**

The District reduced the incentive last year, but is finding it hard to persuade the C & I customers to implement the recommendations from their energy audits. The District would like to increase the rebates for lighting projects back to 60% on retrofit projects and 40% on new lighting projects in 2012. These incentives in the past have enticed customers to make the necessary changes to increase their energy efficiencies.

The District has identified the following projects for 2012:

**The Brothers of the Sacred Heart** – has approached the District to do a retrofit lighting project in 2012. The District has contacted RISE Engineering to schedule an audit. The District would like to allocate \$5,000 to this project in 2012.

**Country Farms-** National Resource Management Inc. (NRM) has performed an audit at this location. The District would like to allocate \$4,975 to this project in 2012. NRM has submitted a refrigeration proposal to install CoolTrol refrigeration controls to cycle temperature and evaporator fans, replace 4 existing shade-pole motors with 4 high efficiency EC motors in evaporators, install dew point –based pulse controls for anti-sweat heaters, and install night shutoff controls in vendor coolers to turn off during the store's closing hours. These measures would qualify for a 60% rebate of \$3,230. They would also like to replace the florescent bulbs in their

coolers with LED lighting which would also be rebated at 60% and qualify for a \$1,745 rebate.

The District would like to fund this line item at \$4,975. *Please see Schedule G for the rebate proposal.*

**Committed Funds 2011- Lighting Projects: \$10,000**

The District would like to allocate funds to this line item in order to accommodate unidentified and identified projects. Often, businesses will approach the District after the file date, and ask to be considered for a rebate on a project. This line item gives the District a source of funds to work from, so we do not miss out on an opportunity to work with our business customers on energy efficiency projects.

In 2011 The District was able to accommodate the St. Joseph Church. This allows us to be proactive and have the ability to work with our customers when they are ready to go forward with a project.

It has been several years since the District has held a seminar to encourage the businesses in our area to take measures that will make them more efficient. The District would like to have the option of holding a business breakfast for the commercial and industrial customers to discuss the types of incentives that are available to help these businesses use their energy more efficiently. If the request for incentives do not pick up by midyear in 2012, holding a seminar would give us the opportunity to communicate the availability of incentives.

The District would like to allocate \$10,000 to this line item and make the funds available on a first come first serve basis with the option to hold a seminar if there are no requests for rebates by midyear.

**Consultation fees: \$1,000**

National Grid, RISE Engineering and Energy New England continue to provide verification of savings on the commercial and industrial projects on an as needed basis. This line item will remain at \$1,000.

**ENERGY STAR Commercial Appliances: \$700**

Although the District has not had any requests for ENERGY STAR commercial appliances, discussions with the restaurant, nursing home, and small business owners has made them aware of the availability of commercial appliance rebates. They have expressed the need to buy appliances designed for residential use. Many of the small offices and nursing homes have employee and community rooms that require refrigerators, dishwashers and other appliances that are smaller than the commercial appliances. Therefore the District would like to offer these businesses the same rebate criteria as seen under the residential appliance program. The District has already

received a request for an ENERGY STAR rebate on a dehumidifier 2011 from one of the small businesses.

The District will send out a bill insert to all the businesses to promote the availability of rebates on commercial appliances and the smaller residential appliances. The District would also like to add the following appliances to ENERGY STAR commercial appliances: commercial washing machines and vending machines. The following commercial appliances would also qualify:

Commercial Dishwashers that earn the ENERGY STAR on average are 25 % more energy efficient and twenty-five percent more water efficient than standard models.

Commercial Fryers that earn the ENERGY STAR are up to 25% more energy efficient than standard models. They also offer shorter cook times and higher production rates through advanced burner and heat exchanger designs.

Commercial Ice Machines that earn the ENERGY STAR are on average 15% percent more energy efficient and ten percent more water efficient than standard models.

Commercial Hot Food Holding Cabinets that have earned the ENERGY STAR are 60% more efficient than standard models. Models that meet the requirements incorporate better insulation, reducing heat loss, and may also offer additional energy saving devices such as magnetic door gaskets, auto-door closures, or Dutch doors.

Commercial Griddles that earn the ENERGY STAR are about 10% more energy-efficient than standard models. A qualified grill can save 2,270 kWh annually.

Commercial Ovens that earn the ENERGY STAR are 20% more energy-efficient than standard models. These ovens can save 1,870 kWh annually.

Commercial Refrigerators & Freezers that meet the ENERGY STAR specifications will be 30% more energy efficient than a standard option because they are designed with components such as ECM evaporator and condenser fan motors, hot gas anti-sweat heaters, or high-efficiency compressors that will reduce energy consumption.

Commercial Steam Cookers, also known as compartment steamers, that meet the ENERGY STAR qualifications are up to 15% more energy-efficient than standard models. They can save 6,270 kWh annually.

Commercial Clothes Washers: choosing an ENERGY STAR qualified commercial washer for a laundry facility will save a significant amount of money and provide the residents with the best laundry performance possible. On average facilities will realize a savings of \$141.60 in electricity the first year and on average they will trim \$1,000 per washer from their utility bills over a ten year period.

ENERGY STAR Vending Machines-a typical vending machine that meets the ENERGY STAR criteria will save more than 1,500 kWh per year compared to a non-qualified model. New and rebuilt ENERGY STAR refrigerated beverage vending machines are 50% more energy efficient than standard machines because they incorporate more efficient compressors, fan motors and lighting systems. They come with low power mode options that allow the machine to be placed in a low-energy lighting and low-energy refrigeration state during times of inactivity.

The District proposes a rebate of 10% with a cap of \$350 for commercial appliance or the following for the smaller Residential Appliances:

A commercial or industrial customer purchasing an ENERGY STAR compliant residential appliance will receive a rebate of up to 10% not to exceed the following for each appliance; refrigerator, freezer, and clothes washer up to \$75. A customer purchasing an ENERGY STAR compliant dishwasher or air purifier will receive an incentive up to \$50; an ENERGY STAR air conditioner will receive an incentive up to \$25; an ENERGY STAR dehumidifier will receive incentive up to \$20. The same savings would apply as listed under residential ENERGY STAR Appliance Rebates.

#### *Administrative/Ad/ Education*

#### **Administrative Expenses: \$20,500**

The funds will be used to pay for staff time, schools and seminars related to DSM, and reimbursement of mileage when employees use their private vehicles for DSM related activities.

Pascoag has two Customer Service Representatives who devote many hours to the DSM programs by working with the customers, taking the applications for rebates on the various programs and answering questions over the phone and in person. The DSM Coordinator spends many hours researching the compliance of the various rebates that are submitted, reconciling the DSM programs, and updating existing programs as well as creating new programs for the next year and requesting reallocation of funds. In addition, the Assistant General Managers works with the commercial and industrial customers on various C & I projects and performs site visits.

The District would also like to perform a training session with the Customer Service Representatives and include a luncheon to train them on the latest criteria regarding DSM rebates for 2012.

The District would like to fund this line item at \$20,500.

#### **Follow-Up to Successful Programs: \$3,180**

The District is requesting a line item to allow some flexibility in transferring funds up to ten percent to other programs with a high customer demand. Any transfer would only be done with the Division's approval.

**Education/Outreach Program: \$14,000**

The District worked with Soleil Communication in 2011 to update its website ([www.pud-ri.org](http://www.pud-ri.org)) with the current DSM programs and rebate applications. The web site allows customers to go on line and view the available DSM programs, it also allows them to download rebate forms. The feedback has been very positive from the customers who have used the site. Many of the rebate forms that we have processed this year have been downloaded from the internet.

Some funds were used to purchase Energy Savers coloring books; these were given to the children at the open house in September. The District also purchased 90 booklets of "Energy Matters for Small Business" from American Public Power Association as well as 500 copies of a news letter called "eco@home™" that was personalized with our name, website, and phone number. This news letter is released four times a year and deals with conserving energy in the home.

The District also paid for two flyers that were inserted in the bills to promote the DSM Programs in both the Commercial/Industrial and the Residential programs. The District purchased the following fulfillment items from Culver which all had a conservation message on them: spatula, chip clips, CFL key chain with a light, refrigerator thermostat, and energy conservation paint sheet.

The District would like to use some of these funds to update the website in 2012, process bill inserts promoting the various programs, and to run advertisements in the local paper, to purchase fulfillment materials, such as night lights, refrigerator thermostats, refrigerator brushes and other conservation materials which will be given away at the Annual Green Power Green Festival.

The District would like to purchase copies of a news letter called "eco@home™" that is released four times a year and deals with conserving energy in the home. The news letter will be personalized with the utility's name, website, and phone number.

The District would like to purchase a couple of Kill-A-Watt meters to use as an educational tool for our customers. The Kill-A-Watt is a plug-in watt hour / kWh meter designed to easily measure electricity used by plug in appliances and can add in running cost and projected cost. The District would make them available to the residential customers from the District office or from the local library.

The District would like to add the following links to the PUD web site in 2012: "Energy Hog" at [www.energyhog.com](http://www.energyhog.com), EPA Energy Star Kids at

[www.energystar.gov](http://www.energystar.gov), and Do it yourself audits at:  
[www.eere.energy.gov/consumerr/your\\_home/energy\\_audit/index.cfm/topic=11170](http://www.eere.energy.gov/consumerr/your_home/energy_audit/index.cfm/topic=11170) .  
These website allow the customers to learn how they can improve the energy efficiency of their homes, allowing them to save money, and improve the comfort of their homes.

**Burrillville School Project: \$3,500**

The District reallocated the funds from this line item to the more popular programs in 2011. The project with Burrillville High School teacher Mr. Aldrich was not satisfactory this year and the District made the decision to end the relationship.

The District would like to keep this line item open, and hopes to find a teacher in one of the schools that we can partner with. The District would like to fund this line item at \$3,500 in 2012.

**6<sup>th</sup> Annual Public Power Green Festival: \$9,000**

In 2011, funds were used to rent equipment, purchase supplies, place an ad in the Bargain Buyer, pay a face painter, hire a puppeteer, hire a person to overlook the kids' craft table, and for staff time at this event. Many hours were dedicated to the preparation of the event. This event continues to be very successful and this year we added the ENERGY STAR Booth to the event. The weather for this event was beautiful and the attendance was very high.

The District would like to fund this line item at a slightly higher level for the 2012, 6th Annual Public Power Green Festival. The event continues to grow and is a great tool in reaching out to the customer base. It allows us to show the customers what the latest conservation measures are and how they can benefit from the various rebates that are offered though the Demand Side Management Program.

The District would like to fund this line item at \$9,000 in 2012.

**Energy Efficiency Education funds: \$4,500**

The District feels that this program has been a wonderful educational opportunity for the DSM Coordinator. The classes for the Energy Efficiency Management Certificate were very informative and the ability to network with other utilities is invaluable.

There are opportunities for more education in this field, in 2012. APPA will be offering a couple of courses in the energy efficiency field listed as Commercial Energy Services that Work and Residential Energy Services that Work. The APPA Institution will be held in several locations in 2012.

The cost of the program is estimated at \$4,500 which consists of \$1,190 for the course, \$350 for books and materials, \$1,000 for the hotel, \$400 for food, \$1,060 for the flight, and \$500 for a rental car/ taxi. *Please see Schedule G for information on the APPA Courses.*

**Program Research and Development: Street Light Incentive: \$1,000**

One of the largest public-service loads for utilities is powering streetlights. The replacement of mercury vapor streetlights with more energy efficient high-pressure sodium lights can result in significant energy savings but replacing them with LED Lights can increase the saving by up to 90 percent. The District would like to allocate \$1,000 to this line item to do a site visit to a municipal located in the state of Maine that has converted their street lights. The information they can provide by their own trials and errors would be invaluable information and allow us to develop a possible incentive to the villages of Harrisville and Pascoag to help them to convert to more efficient street lighting. This is new technology so the District would like to do a complete and thorough evaluation before investing in LED Street lights. The District is proposing a budget of \$1,000.

**Pilot Program for LED Street Lights: \$14,659**

The District is in the beginning stages of research and has scheduled discussions on street light technology with a couple of efficiency partners associated with Energy New England; they are New England Energy Management, Inc.(NEEM), located in Danbury, CT. and Prime Solutions Inc. located in New Milford, CT. The District is also in the process of trying to find municipals in the North East that have implemented the LED Street Light technology. Pascoag would like to earmark \$14,659 towards a small controlled pilot program in the downtown area of Pascoag. The District would not move forward on the pilot program without consulting the Division first. The District would like to allocate \$14,659 of the estimated carryover to this line item.

**Pascosa Utility District**  
**Demand Side Management Programs - 2011 Approved**

	<u>Approved</u>
Estimated carry over from 2010	\$ 23,681
Estimated sales for 2011	\$ 104,000
Net 2011 budget	\$ 127,681

	<u>2011 Approved</u>	<u>Expenses</u>	<u>Balance</u>
<b>Residential Program</b>			
DR1101 ENE Residential Conservation (ECHO)	\$ 2,400	\$ 1,800	\$ 600 9 months @ \$200
DR1102 Home Energy Audits with Incentives	\$ 3,000	\$ 1,621	\$ 1,379 8 Rebates @\$200, 2 rebates
DR1103 Energy Star Appliance Rebates	\$ 11,945	\$ 8,620.3	\$ 3,324.7 26 Air conditioners, 49 clothes washer, 27 Dishwasher, 51 Refrigerators, 2 Freezers, 8 dehumidifiers 1 air purifier
DR1104 Energy Efficient Windows/Doors	\$ 6,000	\$ 1,820	\$ 4,180 14 Doors and 240 Windows
DR1105 Heating System Incentive	\$ 6,000	\$ 1,500	\$ 4,500 6 boilers
DR1106 Energy Star Thermostats/Lighting fixtures	\$ 1,100	\$ 775	\$ 325 28 Thermostats, 3 lighting fixtures
DR1107 Home Office Equipment/Home Electronics	\$ 3,500	\$ 1,890.08	\$ 1,609.92 24 TV's, 6 printers, 1 monitor, 4 phones, 6 computers, 2 blue ray players, 1 hot water heater
DR1108 Electric Heat Conversion/Geothermal System:	\$ 100	\$ -	\$ 100 No activity
DR1109 New Construction	\$ 2,080	\$ 1,560	\$ 520 3 rebates @ \$520
DR1110 Central Air Conditioner Incentive	\$ 1,000	\$ 600	\$ 400 3 Rebates at \$200
DR1111 Change a Light Campaign	\$ 500	\$ 405	\$ 95 Purchase of light bulbs, 6 rebates, sale of 20 bulbs
DR1112 Energy Conservation Calendars	\$ 850	\$ 849	\$ 1 purchase 1000 calendars
DR1113 Committed for 2010 Programs	\$ 13,735	\$ 13,735	\$ - satisfy 2010 qualified rebates
<b>Net Residential</b>	<b>\$ 52,210</b>	<b>\$ 35,176</b>	<b>\$ 17,034</b>
<b>Industrial/Commercial</b>			
DI1101 Energy Star Incentive - Office Equipment	\$ 500	\$ 116	\$ 384 1 computer, 1 charger, 1 all in one unit, 1 printer
DI1102 AT Levy Lighting Project	\$ 10,000	\$ -	\$ 10,000 No activity
DI1103 Valliere Realty LLC	\$ 5,000	\$ 990	\$ 4,010 New outside lighting rebate
DI1104 Committed Funds- Lighting Projects	\$ 13,000	\$ 1,852	\$ 11,148 Retrofit lighting for Berean Baptist Church, and St. Joseph Church CFL's
DI1105 Consultation Fees	\$ 1,000	\$ -	\$ 1,000 No activity
DI1106 Energy Star Commercial Appliance	\$ 700	\$ 18	\$ 682 1 dehumidifier
<b>Net Industrial/Commercial</b>	<b>\$ 30,200</b>	<b>\$ 2,876</b>	<b>\$ 27,324</b>
<b>Administrative/Ad/Education</b>			
DA1101 Administrative	\$ 20,000	\$ 12,814	\$ 7,186 Administrative labor, mileage, and supplies
DA1102 Funds for Follow-up to Successful Programs	\$ 8,000	\$ 7,509	\$ 491 Funds were moved to more successful programs
DA1103 Outreach/Education	\$ 65	\$ 64	\$ 1 Smart Strip
DA1104 BHS Project	\$ 8,900	\$ 8,876	\$ 24 Labor, Ad in local paper, banner update, rentals, face painter, puppeteer, musician, supplies
DA1105 PUD 5th Annual Public Power Green Festival	\$ 5,360	\$ 4,599	\$ 761 Tuition, flight, hotel, meals, books.
DA1106 Energy Efficiency Management Certificate Program	\$ 2,946	\$ 2,946	\$ - Purchase a laptop, carrying case and encryption
DA1107 DSM Office Equipment	\$ 45,271	\$ 36,809	\$ 8,462
<b>Net Administrative/Ad/Education</b>	<b>\$ 127,681</b>	<b>\$ 74,981</b>	<b>\$ 52,700</b>