



PASCOAG
UTILITY DISTRICT

Pascoag Electric • Pascoag Water

Originals

253 Pascoag Main Street
P.O. Box 107
Pascoag, RI 02859
Phone: 401-568-6222
Fax: 401-568-0066
www.pud-ri.org

RIPUC Docket 4368

Pascoag Utility District's
Demand Side Management
Program 2013

This institution is an equal opportunity provider and employer.

**Pascoag Utility District
Electric Department**

In Re: Pascoag Utility District's
Demand Side Management Program-2013

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November 8, 2012

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

Re: RIPUC Docket No. 4368

Dear Ms. Massaro:

On behalf of Pascoag Utility District ("Pascoag" or the "District"), we herewith file an original and nine copies of Pascoag's proposed Demand Side Management Program for 2013. This submission includes Pascoag's Executive Summary, Program Details for 2013, reconciliation of 2012 DSM activities and budget, and other schedules that support this docket.

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

Very truly yours,



Harle J. Round
Customer Service Supervisor/DSM Coordinator

Cc: Ms. Karen Lyons, Esquire
Mr. William Bernstein, Esquire

A

Pascoag Utility District
Demand Side Management Programs - 2013 Proposed Budget

Actual carry over from 2012	\$ 23,080
Estimated sales for 2013	\$ 92,000
Net 2013 budget	\$ 115,080

	2013 Proposed	
	Budget	
Residential Program		
DR1301 ENE Residential Conservation (ECHO)	2,400	12 month @ \$200
DR1302 Home Energy Audits with Incentives	3,550	10 Audits @ \$215, with 10% rebates up to \$100, 5 free cfi's & smart power strip
DR1303 Energy Star Appliance Rebates	8,000	Up to 106 incentives
DR1304 Refrigerators/Freezer Buy Back	748	\$50 & \$18 for pickup for Refrigerator or Freezer up to 11 rebates
DR1305 Energy Efficient Windows/Doors	2,500	up to 200 window at \$15 or up to 75 doors at \$40
DR1306 Heating System Incentive	3,000	16 Rebates at \$250
DR1307 ENERGY STAR qualified Water Heaters	800	8 Rebates at \$100
DR1308 ENERGY STAR Lighting fixtures and fans	1,000	up to 20 rebates at \$50
DR1309 Home Office Equipment/Home Electronics	2,500	70 Rebates at \$50
DR1310 Electric Heat Conversion/Geothermal System:	100	To keep the line item open
DR1311 New Construction	2,080	4 Rebates at \$520 Maximum
DR1312 Central Air Conditioner Incentive	1,200	6 Rebates at \$200
DR1313 Change a Light Campaign	500	10 Rebates at \$50
DR1314 Energy Conservation Calendars	2,133	500 Energy Saving Calendars
DR1315 Smart Power Strips	200	25% rebate (average cost is between \$27-\$37)
DR1316 Committed for 2012 Programs	1,000	To accommodate programs with depleted funds from 2012
Net Residential	\$ 31,711	
Industrial/Commercial		
DI1301 Energy Star Incentive - Office Equipment	500	10 Rebates at \$50
DI1302 Burrillville School System Projects	15,000	to fund a multi-year project with the Burrillville Schools
DI1303 Committed Funds- Lighting & EE Projects	10,000	Money to be available for Commercial & Industrial Energy Efficiency Projects.
DI1304 Consultation Fees	1,000	To consult with Rise, National Grid, & ENE
DI1305 Energy Star Commercial Appliance	700	2 Appliances up to a maximum of \$350
Net Industrial/Commercial	\$ 27,200	
Administrative/Ad/Education		
DA1301 Administrative	20,500	Administrative Labor, Mileage, supplies, Training session/ luncheon for the CSR's
DA1302 Funds for Follow-up to Successful Programs	1,869	To be used on more successful programs
DA1303 Outreach/Education	8,200	Billing inserts, Energy Saving Coloring books, Culver conservation items.
DA1304 BHS Project	6,000	To partner with the High Schools on an Energy Efficiency Project.
DA1305 Community Events	9,600	Energy Efficient Community Events
DA1306 Energy Efficiency Management continuing education	4,500	Tuition, Fight, Hotel, meals, books, NEEP 2 day conference, webinars
DA1307 Program Research and Development	500	Funds for future development of programs
DA1308 LED Street Light Incentives	5,000	Incentive to be used to offset the cost of Streetlights
Net Administrative/Ad/Education	\$ 56,169	
Estimated DSM 2013 Budget/ Expenses/ Balance	\$ 115,080	

B

Pascoag's 2013 Demand Side Management Program
Executive Summary: Submitted by Harle J. Round

Residential Programs:

The Residential Programs proposed by Pascoag Utility District for 2013 will mirror our 2012 programs, with adjustments to some of the line items based on activity in the programs over the past year and the fact that we will be losing a large industrial customer which will reduce the budget in 2013.

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 2012. 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 2013 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 2013.

ENERGY STAR Audits are a very educational tool for homeowners. ENE performed ten audits as of October 2012. 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, light fixtures, and light bulbs, thereby taking advantage of the applicable rebates. Three customers have implemented some of the suggestions and received the

incentives related to their audits in 2012. The phone surveys that were given this year showed that the customers were very satisfied with the audits they received but they wished that the incentives for the suggested improvements were more than \$50, so the District is proposing to increase the incentive to \$100 per audit.

The District would like to continue to offer the home energy audits in 2013. The District would like to keep the number of audits at ten at a cost of \$215 each and have \$100 for each audit available for audit recommendations that are not covered by the rebate programs. The District would also like to supply 5 free CFL's and a smart power strip with each audit.

Rebates for ENERGY STAR Appliances continue to be one of our most popular programs. The District is proposing a budget of \$8,000 in 2013.

The District added a Refrigerator/Freezer Buy-Back Program in 2012. This program encourages our customers to reduce their power bills by giving up an old inefficient refrigerator or freezer. This will help 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 \$748 but would like to increase the incentive to \$68. The Town of Burrillville switched trash collectors in August of 2012 and the cost of removing an appliance is now \$18. The incentive increase from \$50 to \$68 would cover the cost of curbside removal.

The ENERGY STAR Window and Door incentive had an approved budget, of \$3,000 in 2012. The activity for this line item has decreased; therefore the District is proposing a budget of \$2,500. 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 \$4,000 in 2012. The activity for this line item decreased in 2012. The District would like to continue to fund this line item at \$3,000 in 2013 and keep the rebate of 10% up to \$250.

The District added 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 10% up to a maximum rebate of \$100, with a budget of \$800. The District had one rebate in 2012 and has had plumbing contractors come in for the rebate forms. We believe hybrid electric hot water heaters and solar heaters will become more popular as the price of fuel oil continues to climb.

ENERGY STAR Lighting Fixtures and 7 day Programmable Thermostats had a budget of \$1,000 in 2012 and only issued \$430. The District added ENERGY STAR ceiling fans/light combination units and ventilation fans to this line item in 2012. The District would like to continue this line item again next year with a budget to \$1,000 and

will continue to educate its customers. The District will no longer rebate the 7 day programmable thermostats.

ENERGY STAR Home Office/Electronic equipment with an approved budget of \$3,500 has processed rebates totaling \$2,032. The District would like decrease the funding for this program to \$2,500 in 2013.

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 two rebates at the Mill Pond development in 2012. The District is requesting to fund this program at the same level in 2013. 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 2012. The District has processed five rebates in 2012, depleting the funds and requiring the District to seek a reallocation of funds. The temperatures this summer were above average and may have contributed the continued request for central air conditioning rebates. The District would like increase the budget to \$1,200, and keep the maximum rebate of \$200, in 2013.

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 \$246 in rebates, and continues to promote this program. The District would like to fund this program next year at the same level of \$500.

In 2012, the District purchased the Energy Conservation Calendars. These calendars highlight an energy efficiency tip each month, and the District was able to customize the calendar with a page dedicated to promoting the DSM programs and incentives that are offered. The District would like to purchase these calendars again but reduce the amount from 1000 to 500 calendars.

In 2012, the District introduced 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 continue to offer an incentive of 25% up to a maximum of \$25 with a budget of \$200.

The District is estimating a carryover of \$23,080 from 2012; the District will use \$22,080 of this carryover in the 2012 budget and would like to place \$1,000 into a line item called Committed for 2012 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 or for rebates that are received after books have been closed for 2012. In 2012, the District was able to satisfy \$735 in rebates that qualified in 2011 but the program funds were depleted. If the carry over funds placed in the Committed for 2012 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 2013.

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 six rebates totaling \$300. The District would like to continue this program with the same level of funding for 2013, with \$500.

Lighting Projects completed in 2012:

- The Brothers of the Sacred Heart qualified for a 60% rebate on a retrofit lighting project totaling \$23,997.
- The Hopkins Brothers qualified for a combination of retrofit lighting and new lighting at their garage with a rebate totaling \$883.45.

The District has only identified one project for 2013:

The facilitator of maintenance for the Burrillville Schools is currently working with RISE Engineering. RISE is conducting audits in several of the schools systems in the District's territory. The School system would like to work with the District over several years to complete these projects. The District would like to set aside \$15,000 for the Burrillville Schools in 2013.

Committed Funds for Lighting Projects and Energy Efficiency Measures - The District was able to accommodate the Hopkins Brothers Auto Repair in 2012. 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 2013, 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 2013, we would like to fund this line item at \$1,000.

ENERGY STAR Commercial Appliances had activity in 2012. The District continues to visit the local businesses and made them aware of the commercial rebates. The District is requesting a budget of \$700 for commercial appliance with rebates of 10 % up to \$350 and residential appliances using the same amounts from the residential program and making them available under this line item for the commercial customers.

The Administration/Ad/Education

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 was \$20,500 which covers the time spent to oversee this most worthwhile endeavor. The District would like the funds to remain the same in 2013 and continue the training session for 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 August and October of 2012 the District moved the Funds for Follow-Up to Successful Programs to our more successful programs. The District would like to keep this line item open in 2013 with \$1,869.

The District continued the Customer Outreach Program in 2012. The District worked with Soleil to update our conservation programs and rebate forms on the web site, advertise in the Bargain Buyer, and used bill inserts to promoting the DSM Programs. The District used some of the funds to purchase energy conservation materials from Culver. The District also purchased Watt Meters for the local libraries in Pascoag and Harrisville.

The District would like to continue the Outreach and Education line item in 2013 and fund it with \$8,200. This will allow the District to update the website with the programs for 2013 at 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 2013, and purchase energy efficiency material to educate our customers, which will include the Eco News Letter, Energy Efficiency Face Book Feeds, booklets on energy efficiency, along with energy conservation materials purchased at Culver Company.

The 6th Annual Public Power Green Festival was hosted on Saturday, September 8, 2012. The open house highlighted energy conservation flyers and conservation giveaways. There were activities for children which included a coloring contest, decorating door hangers, bucket rides, and face painting.

Many Vendors attended this year along with a booth from the Burrillville Farmers market, RI Resource Recovery Corp, RI Emergency Management Association, New England Solar, and Energy New England. 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 Between the Cracks, a nonprofit agency that helps local people in need. 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. The event was well attended by customers and had strong vendor participation. Hosting this event at our office ensures that our customers are receiving the benefits of being educated with the latest in energy efficiency information.

In 2013, the funds for this line item will be limited. The District is in discussions with the Burrillville Parks and Recreation department to continue the Green Festival and have them help with expenses. If the District is able to form a partnership with the town for this event, this would lessen the cost of labor for the District. If this does not happen the District would propose hosting several informational sessions at the District office on Thursday nights. These two hour informational sessions on energy efficiency would be held in the conference room allowing us to use less labor but still give us a chance to get the message out to our customers by offering them free CFL's and reusable grocery bags with energy conservation fulfillment items. The District would like the option to give a demonstration on energy efficiency to the elementary students at Austin T Levy School.

Burrillville School Project- the District has been approached by a teacher at the High School who is creating a curriculum on Energy Efficiency and would like to partner with the District. The District will be meeting with this teacher in the near future and is very hopeful that a partnership with the high school can be reestablished. The District would like to allocate \$6,000 to this partnership, which would include a cookout for the students at the end of the year.

In 2012, the DSM coordinator was unable to attend the APPA Academy due to the fact it coincided with the closing of the books in February. The DSM Coordinator was able to take advantage of several webinars offered by APPA and attended a NEEP Conference in Connecticut on Residential Lighting. She will also be attending a NECA Conference on Energy Efficiency and Demand Response in November, in Westborough, MA.

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. The District is hoping that APPA will offer 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. This would allow her to participate in one of the APPA Educational Conferences offering these courses if they become available in 2013, and give her the opportunity to attend the NEEP and NECA conferences in 2013.

The District added a line item called "Program Research and Development". The District funded this line item with \$1,000 to give the District the ability to research a Street Light Incentive program. 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 fund this line item with \$500 in 2013 which will continue to allow us to look into new programs.

The District earmark \$14,659 of the carryover funds into a line item called "Pilot Program for LED Street Lights". The District met with Division in September and received approval to order 56 streetlights. The District reviewed with Division the proposal that was received from Prime Solutions. This proposal would have provided us with 12 LED Streetlights and their study for a total cost of \$14,000. New England Energy Management never came through with a proposal. The District was also approached by our lighting distributor who offered us 28 LED Streetlights that are equivalent to a 50 Watt High Pressure Sodium and 28 LED Streetlights that are equivalent to a 70 Watt High Pressure with a total cost including the photo eye light sensors at \$13,311.84. The District was given permission by Division to order the streetlights. The District will be tracking the labor and installation of these streetlights. The District has submitted a request to reallocate funds to this line item to cover the cost of installation, and to conduct an assessment of the LED Streetlights.

The District would like to create a line item called LED Street light incentive and fund it with \$5,000 in 2013. This will allow us to start setting aside funds for the purpose of replacing the Public High Pressure Sodium Street Lights with LED Street lights if the savings prove to be substantial.

The funding for the 2013 Demand Side Management Program is based on the 2.0 mils per kilowatt-hour assessment established by legislation. A residential customer using 500 kWh pays \$1.00 on their monthly electric bill for these conservation programs or \$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. With the loss of a large Industrial Customer in 2013, the District reduced the funds available to many of the line items but feels that the assessment

established by legislation is still adequate. The District does not want to burden the rate payers with a higher DSM assessment during these tough economic times when many are struggling to meet their basic needs.

Pascoag's proposed budget is based on a forecast of Sales for 2013 of 45,931,672 kWhr. The estimated budget is rounded up to \$92,000 for 2013. The District anticipates a \$23,080 carryover fund from 2012 which would bring the total 2013 budget to \$115,080.

C

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

Residential Programs

In 2013, Pascoag plans to continue all of the current Residential Programs from 2012. The customer demand still continues and the District believes these programs will continue to be successful in 2013. The District will modify the budget amounts based on two factors: the program activity in 2012 and the loss of a large industrial customer in 2013 that will impact the funds that are collected for the DSM program. The District will continue the appliance buyback on refrigerators and freezers, the incentive on ENERGY STAR Water Heaters, and the incentive on smart power strips. This Summary will detail the programs proposed for 2013 and will review the success of the 2012 programs.

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

Pascoag will continue its relationship with Energy New England (“ENE”) in 2013. 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 12 meters*¹ and sent letters to each customer referring these customers to the toll free energy hot line. ENE attended the 6th Annual Green Festival and answered energy related questions and handed out flyers on energy efficiency.

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 month in 2013.

Audits with Follow-Up Incentives-\$3,550:

Pascoag would like to provide ten audits in 2013, along with a maximum rebate of \$100 for incentive follow-up. This would allow the following:

¹ * Meters were proven to be within acceptable accuracy limits

10- Audits @ \$215each	\$2150
Money available for Incentives 10@\$100 each	\$1000
5 free CFL's & Smart Power Strip	\$400

ENE price has increased to \$215 for each home energy audit, in 2013. The increase is primarily due to fees associated with materials and the price of gas. 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 \$100 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.

The District evaluated this program by performing a phone survey to see if the customers were utilizing the information they were given in the comprehensive audits from ENE. The most common response was the need to increase the incentive for implementing items like insulation; therefore the District would like to increase the incentive to \$100. The District would also like to include 5 free CFL's for bulbs that are in use for 5 hours per day and include a Smart Power Strip with each audit. These additional items will help save \$54 annually in electricity cost associated with the lighting and \$30 per year in standby electric.

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

ENERGY STAR Appliance Rebates: \$8,000

Pascoag would like to fund this line item at \$8,000 in 2013. This program continues to be our most popular program.

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 clothes washer uses 20% less energy and 35% 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 and use 20% less water than a standard model; a compliant refrigerator and/or freezer uses 50% less energy than one made before 1993 and is 15% 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 40% less than the standard models; water coolers use 50% less energy than conventional 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: \$748

The District would like to continue a refrigerator/freezer buyback program in 2013. 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. The cost for customers to recycle the refrigerators increased to \$18 in August of 2012. The District would like increase the incentive from \$50 to \$68 to offset the recycle charge. This incentive will remove 11 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 1-800-972-4545 to schedule an appointment to pick up the appliance. Once the pickup is verified, the customer will receive a \$68 rebate which will be applied to their electric account.

The District would like to fund this line item at \$748 with a rebate of \$68 which will allow us to process 11 incentives.

ENERGY STAR Windows/Skylights and Doors Incentive: \$2,500

The budget for 2012 was \$3,000 and in October the District has processed \$1,720 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 \$2,500.

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: \$3,000

The District would like to fund this program for heating system replacement at \$3,000, in 2013. The demand for this program also declined 2012. The District issued 6 rebates totaling \$1,750 as of October of 2012.

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 16% 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 2013. This will allow twelve customers to take advantage of this program.

ENERGY STAR Solar and Electric Heat Pump Water Heaters: \$800

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 processed one rebate in 2012 and would like to increase the incentive from 5% to 10% to encourage more people to take advantage of this the more efficient electric water heaters.

The District is proposing a rebate of 10% of the cost, not to exceed \$100. This would allow us to process eight rebates in 2013.

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

The District would like to fund this program at the same level in 2013. We would like to continue the fifty percent rebate on lighting fixtures and ENERGY STAR ceiling and ventilation fans. The District processed eleven rebates totaling \$430, as of October 2012.

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 fixture 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.

ENERGY STAR ceiling fans/light combination units and ventilation fans. ENERGY STAR qualified ventilation fans are 70% 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 for the 7 day programmable Thermostats would be discontinued as they are no longer supported by ENERGY STAR.

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

Home Office Equipment/Home Electronics: \$2,500

The District would like to fund this line item at \$2,500 in 2013. The incentives for this line item will remain 15% of the cost, up to a maximum rebate of \$50. The District has processed \$2,032 in rebates through October. The District feels that the demand for 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, laptops, 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. A Set-top box is a cable, satellite, internet

protocol or other device that is used to receive a television signal from a specific source that delivers them to a consumers' display and or recording device, such as a television or DVR; these 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 such as Home-Theater-in-a-box systems, audio amplifiers, AV receivers, shelf systems, DVD Players, blu-ray Disc Players, docking stations for audio amplification or optical disc drive functions, battery charging systems such as cordless power tools, cordless yard care tools, hand held vacuums, personal care products, 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 \$2,500 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 ²
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.

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

New Construction Rebates: \$2,080

The District has processed two rebates in 2012.

This line item is an excellent way to encourage the contractors to upgrade to ENERGY STAR compliant windows, doors, skylights, heating systems, appliances, 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.

The District would like to continue to fund this program at \$2,080 in 2013. 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 Lighting Fixtures/ Ventilation fans	\$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: \$1,200

The District has processed five rebates totaling \$945 in 2012; the District submitted a request to reallocate funds to this line item for two additional customers who qualify but the funds have been depleted. The District would like to increase the funding for this line item to \$1,200 in 2013.

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. ENERGY STAR certified central air conditioners must meet the following specifications:

- For a split system ≥ 14.5 SEER, ≥ 12 EER
- For a single package ≥ 14.0 SEER, ≥ 11 EER

The incentive will remain at 10%, 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 continues to be part of this important effort to change the world by inviting our residential electric customers to take the 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 either an ENERGY STAR qualified (CFL), LED or holiday LED string light. The District has collected 250 pledges this year.

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 2012 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 2013 to sell for half price when our current supply is depleted.

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

Energy Conservation Calendars: \$2,133

Last year the District purchased 1000 Calendars and distributed them to our walk in customers.

This year, the District would like to purchase five hundred 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 2013 programs and rebate amounts on the inside page. The total budget requested for this line item is \$2,133 for five-hundred calendars which includes the cost of printing, shipping, and personalizing the calendars with our rebate information.

“Smart” Power Strips: \$500

The District will continue 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 incentive will remain at 25%, up to a maximum rebate of \$25.

Committed for 2012 Programs: \$1,000

In 2012 the Public Utilities Commission allowed the District to create a line item called “Committed for 2011 Programs” and fund it with money that was carried over from the 2011 DSM budget. This allowed us to use \$723 from of the carry over funds from 2011 and rebate 9 customers who had submitted qualified rebates for programs in which the funds had been depleted or the books for 2011 were closed.

The District is estimating a carryover of funds from 2012 at \$23,080. The District will use \$22,080 of these funds in the 2013 budget and use \$1,000 to satisfy 2012 qualified rebates for customers who do not receive a rebate because the funds for a particular program had been depleted in 2012 or for rebates that are turned in after the books are closed for 2012; the cutoff date for 2012 rebates would be February 15, 2013.

Commercial and Industrial Programs

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

The District issued six incentives totaling \$300 through October of 2012. The District continues to promote this program. The District would like to continue this program at the same level of funding in 2013.

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 2012:

2012 Brothers of the Sacred Heart Lighting Project:

The Brothers of the Sacred Heart qualified for a 60% rebate on a retrofit lighting project totaling \$23,997. *Please see Schedule J for a detailed report for RISE.*

2012 Hopkins Brothers Lighting Project

The Hopkins Brothers qualified for a rebate of \$883.45 they did a mix of retrofit lighting and new lighting at their garage. *Please see Schedule J for the rebate information.*

2013 Lighting Projects:

The District would like to keep the rebates for lighting projects at 60% on retrofit projects and 40% on new lighting projects in 2013. These incentives have enticed customers to make the necessary changes to increase their energy efficiencies.

The District has identified the following projects for 2012:

The Burrillville Schools – The maintenance facilitator has approached the District about multiple lighting and energy efficiency projects. RISE Engineering has completed the audits and will be presenting them to the school within the next couple of weeks. The facilitator is interested in completing these projects over a period of year as budgets will allow for both the District and the School system. The District would like to allocate \$15,000 to this project in 2013. *Please RISE's Audits under Schedule G.*

Committed Funds 2012- 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 2012, the District was able to accommodate the Hopkins Bothers Auto Repair Lighting Project. 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 2013, 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 restaurants, nursing homes, and small business owners has made them aware of the availability of commercial appliance rebates. The District offered the businesses the same rebate criteria as seen under the residential appliance program. The District processed one rebate for a refrigerator in 2012

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 following appliance would qualify for rebates:

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 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 perform site visits.

The District would also like to perform a training session with the Customer Service Representatives and include a luncheon again this year to train them on the latest criteria regarding DSM rebates for 2013.

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

Follow-Up to Successful Programs: \$1,869

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. If the carry over funds exceed our estimate, the District is proposing to move these funds to the Funds for Follow-up to Successful Programs line item in the 2013 budget. Any transfer would only be done with the Division's approval.

Education/Outreach Program: \$8,200

The District worked with Soleil Communication in 2012 to update its website (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 500 copies of a news letter called "eco@homeTM" that was personalized with our name, website, and phone number. This news letter is released four times a year and deal with conserving energy in the home. The District also purchased a 12 month Facebook content service and received energy efficiency feeds that we posted to our Facebook page. The District currently has 419 likes which means that every time we post an

energy efficient message we reach those people and their friends also; we have found this to be a very effective tool in getting the energy efficiency message out along with helpful links and the ability to promote our DSM rebates.

The District also paid for three flyers that were inserted in the bills to promote the DSM Programs in both the Commercial/Industrial and the Residential programs along with a one page yearly calendar with conservation messages. The District purchased the following fulfillment items from Culver which all had a conservation message on them: water bottles, bookmarks, conservation pencil box kit, reusable grocery bags and CFL magnets with a message promoting the face book feeds.

The District purchased a total of five 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 made them available to the Burrillville residence only. They are available on loan from the District office and from the Jesse Smith Library and the Pascoag Library. The meters were so popular at the Jessie Smith Library that the District purchased two more meters for that location. The feedback has been very positive and Saint Vincent de Paul who does home visits to the needy in our area is making its clients aware that these meters can be borrowed at no cost from the library.

The District would like to use some of these funds to update the website in 2013, 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, chip clips and other conservation materials which will be given away at the Districts Customer outreach events.

The District would like to purchase 250 copies of a news letter called "eco@home™" that is released four times a year and deals with conserving energy in the home at a cost of \$310 plus the cost to drop ship the newsletters at the District Office. The District would also like to purchase another annual subscription to the Facebook Content Service with a total cost of \$499.

Burrillville School Project: \$6,000

The District meet with teaches from the Burrillville High School in October. They have secured grant money to run an Environmental Study program starting in 2013. One of the modules will be on energy efficiency. They are looking to partner with the District to show the students the importance of this subject. We are in the beginning discussions on how we can benefit each other's programs. We have discussed the possibility of sponsoring a field trip with DSM money in exchange for help with our customer outreach. Some possibilities would be for them to create energy efficient related brochures or getting the students to volunteer their help at some of our Community Events.

The District would like to fund this line item at \$6,000 which would include a cookout at the end of the school year in 2013.

Community Events: \$9,600

In 2012, funds were used to rent equipment, purchase supplies, place an ad in the Bargain Buyer, pay a face painter, hire a musician to, and for staff time at the 6th Annual Green Festival. Many hours were dedicated to the preparation of the event. This event was very successful raising \$645 for a local nonprofit agency called Between the Cracks. This year at the ENERGY STAR Booth we gave away free CFL light bulbs to customers that took the ENERGY STAR Pledge. The CFL's were purchased with DSM funds along with polo shirts promoting our ENERGY STAR Partnership. The weather for this event was beautiful and the attendance was very high.

The District would like to keep its options open for next year and call the Program Community Events. We have several options next year and are looking into the possibility of partnering with the Town of Burrillville Parks and Recreation Department in hosting the Green Festival. If we can merge with the town the labor for the District would be reduced which would allow us to continue with this event.

The District may also want to have Energy Efficiency Seminars and host it on a Thursday night from 5-7PM. This would allow us to promote the available rebates and find guest speakers to discuss energy efficient measures. Another possibility would be to return to the Austin T Levy School and give a demonstration to the elementary students on using electricity more efficiently.

The District would like to fund this line item at \$9,600 in 2013.

Energy Efficiency Education funds: \$4,500

The DSM Coordinator completed the Energy Efficiency Certificate Program in May of 2012. To maintain certification, she must complete 20 hours of additional approved continuing education training (not limited to APPA offerings) every two years. There were two courses offered in February of 2012 with APPA, but unfortunately this coincided with the year end closing and she was unable to attend. The courses were not available again in 2012, but may become available again in 2013.

To utilize some of the continuing education funds, she was able to attend a Residential Lighting Workshop sponsored by NEEP and a couple of APPA Webinar called the Pull Through: Energy Program Participant Recruitment & Retention and LED Streetlight. She will also attend a NECA Conference on Energy Efficiency and Demand Response in November.

There are opportunities for more education in this field, in 2013. The District is hoping that APPA will offer a couple of courses in the energy efficiency field listed as Commercial Energy Services that Work and Residential Energy Services that Work. If the courses are not offered the DSM Coordinator would like to attend the NEEP 2 day workshop, The NECA Conference and take webinars as they become available through APPA.

The funding for this line item will remain at \$4,500 in 2013.

Program Research and Development:

In 2012, the District created this line item and funded it with \$1,000 to research and development a possible Street Light Program. 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 will use \$1,000 in this line to research the saving associated with the Street Light Pilot Program.

The District would like to fund this line item with \$500 to have a source of funds to develop future energy efficient programs.

Pilot Program for LED Street Lights:

The District would like to report that the LED Streetlights have been delivered to the District. A request to reallocate funds was submitted to Division in October; the additional funds will cover the cost of installing the 56 LED Streetlights, cover the cost associated with the research, placement, and to accurately calculate the saving the District will realize.

Public Street Light Incentive: \$5,000

In 2013, the District would like set aside \$5,000 to be used for a future Public LED Street Light Incentive. This would allow the District to start setting aside funds to be used for the purpose of replacing High Pressure Sodium Street Lights with LED Street lights, if the saving proves beneficial. The District feels this would be a good use of DSM dollars because this would benefit all the Districts customers with lower public streetlight assessments while helping the District become more energy efficient.

D

Pascoag Utility District
Demand Side Management Programs - 2012 Approved Budget with Expenses

Actual carry over from 2011	\$ 40,893
Estimated sales for 2012	\$ 106,000
Net 2012 budget	\$ 146,893

	2012 Approved	2012 Expenses	Balance
	Budget		
Residential Program			
DR1201 ENE Residential Conservation (ECHO)	2,400	1,600.00	\$ 800.00
DR1202 Home Energy Audits with Incentives	3,750	1,865.27	\$ 1,884.73
DR1203 Energy Star Appliance Rebates	10,000	8,438.00	\$ 1,562.00
DR1204 Appliance Buy Back Refrigerators/Freezer	1,000	250.00	\$ 750.00
DR1205 Energy Efficient Windows/Doors	3,000	1,720.00	\$ 1,280.00
DR1206 Heating System Incentive	4,000	1,750.00	\$ 2,250.00
DR1207 ENERGY STAR qualified Water Heaters	1,000	100.00	\$ 900.00
DR1208 Energy Star Thermostats/Lighting fixtures	1,000	430.49	\$ 569.51
DR1209 Home Office Equipment/Home Electronics	3,500	2,032.14	\$ 1,467.86
DR1210 Electric Heat Conversion/Geothermal System:	100	-	\$ 100.00
DR1211 New Construction	2,080	600.00	\$ 1,480.00
DR1212 Central Air Conditioner Incentive	1,545	945.00	\$ 600.00
DR1213 Change a Light Campaign	500	245.97	\$ 254.03
DR1214 Energy Conservation Calendars	3,815	3,814.30	\$ 0.70
DR1215 Smart Power Strips	500	-	\$ 500.00
DR1216 Committed for 2011 Programs	723	723.00	\$ -
	\$ 38,913	\$ 24,514.17	\$ 14,399
Net Residential			
Industrial/Commercial			
DI1201 Energy Star Incentive - Office Equipment	500	300.00	\$ 200.00
DI1202 The Brothers of the Sacred Heart	23,995	23,997.00	\$ (2.00)
DI1203 Country Farm Project	-	-	\$ -
DI1204 Committed Funds- Lighting Projects	10,000	883.45	\$ 9,116.55
DI1205 Consultation Fees	1,000	-	\$ 1,000.00
DI1206 Energy Star Commercial Appliance	700	48.00	\$ 652.00
	\$ 36,195	\$ 25,228.45	\$ 10,967
Net Industrial/Commercial			
Administrative/Ad/Education			
DA1201 Administrative	20,500	12,042.84	\$ 8,457.16
DA1202 Funds for Follow-up to Successful Programs	-	-	\$ -
DA1203 Outreach/Education	15,110	9,252.00	\$ 5,858.00
DA1204 BHS Project	-	-	\$ -
DA1205 PUD 6th Annual Public Power Green Festival	10,085	7,444.47	\$ 2,640.53
DA1206 Energy Efficiency Management continuing education	4,500	733.39	\$ 3,766.61
DA1207 Program Research and Development	1,000	-	\$ 1,000.00
DA1208 Pilot Program for LED Street Lights	20,590	13,311.84	\$ 7,278.16
	\$ 71,785	\$ 42,784.54	\$ 29,000
Net Administrative/Ad/Education			
Estimated DSM 2011 Budget/ Expenses/ Balance	\$ 146,893	\$ 92,527.16	\$ 54,366

E

Pascoag Utility District
Savings associated with completed conservation projects for 2012

<i>Project</i>	<i>Date Completed</i>	<i>Kw Savings</i>	<i>kWh Savings</i>	<i>Dollars (\$0.16/kwhr)</i>
<i>Hopkins Brothers</i>	<i>July 2012</i>		<i>717.6</i>	<i>\$96.29</i>
<i>Brothers of the Sacred Heart Phase 1</i>	<i>September 2012</i>	<i>20.06</i>	<i>36,431</i>	<i>\$5,465</i>

Calculations of Energy Savings for Energy Star Incentives(1)

<u>Appliance</u>	<u>Specifications</u>	<u>Monthly hours Operation</u>	<u>Monthly kwhr use</u>	<u>Annual kwhr use</u>	<u>Units w/ Incentives</u>	<u>Total annual</u>
Air Conditioner	6000 BTU 500 watts	165	83 74	990 892	Standard EnergyStar	26 2548
Clothes Washer	Large Capacity	23	12 11	144 132	Standard EnergyStar	32 384
Dishwasher	13,000 Watts	24	31 25	372 300	Standard EnergyStar	44 3168
Refrigerator	6-15 years old 17CF, frost free	245	147 103	1764 1236	Standard EnergyStar	51 26928
Freezer	Upright 6-10 year 11 - 15.9 upright	300	79.45 61.2	953.4 734.4	Standard EnergyStar	0 0
Dehumidifier	Large capacity 650 Watts	340	221 166	2652 1992	Standard EnergyStar	12 7920
Total Average kwhrs Savings						165 40,948

(1) From www.pud-ri.org "Energy Calculator"

2012 Appliance savings

Calculations of Energy Savings for Energy Star Incentives(1)

<u>Appliance</u>	<u>Specifications</u>	<u>Monthly hours Operation</u>	<u>Monthly kwhr use</u>	<u>Annual kwhr use</u>	<u>Units w/ Incentives</u>	<u>Total annual</u>
Air Conditioner	6000 BTU 500 watts	165	83 74	990 892	Standard EnergyStar	0 0
Clothes Washer	Large Capacity	23	12 11	144 132	Standard EnergyStar	2 24
Dishwasher	13,000 Watts	24	31 25	372 300	Standard EnergyStar	0 0
Refrigerator	6-15 years old 17CF, frost free	245	147 103	1764 1236	Standard EnergyStar	1 528
Freezer	Upright 6-10 year 11 - 15.9 upright	300	79.45 61.2	953.4 734.4	Standard EnergyStar	0 0
Dehumidifier	Large capacity 650 Watts	340	221 166	2652 1992	Standard EnergyStar	0 0
Total Average kWhrs Savings						552

(1) From www.pud-ri.org "Energy Calculator"

2011 Appliance savings
Committed from 2011 program

Refrigerator Buy Back						Schedule E
	Size of Refrigerator	Year	kWh	\$ saved		
1	16.5 cubic feet	1980	1413	\$184.00		
2	14.0 cubic feet	1988	1023	\$133.00		
3	16.5 cubic feet	1999	1413	\$184.00		
4	19.0 cubic feet	2000	857	\$111.00		
5	21.0 cubic feet	1992	1285	\$167.00		
	Total Saved		5991	\$779.00		

Light Bulbs sold in the office + Rebates processed for Light Bulbs (CFLs)
 + Rebates on Lighting Fixtures



Savings Estimate for ENERGY STAR Qualified Lighting

Results Overview

The ENERGY STAR models of your selected lighting will save approximately 77%. Each year you will save approximately 10,133 kWh of electricity and \$1,317. Over the life of the equipment you will save approximately \$6,016 in electricity costs and \$438 in equipment replacement costs. By choosing ENERGY STAR you will reduce emissions by approximately 15,604 pounds of carbon dioxide annually, which is equivalent to the emissions of 1.4 cars.

Results Detail

	Quantity	Annual Total				Life Cycle Total				% Electricity Savings with ENERGY STAR	Total additional purchase price	Simple payback period for additional initial cost (years)	Assumed equipment lifetime (years)		
		Electricity cost savings (kWh)	Electricity savings (kWh)	Electricity consumption (kWh)	Emissions reduction (pounds of CO2)	Electricity cost savings	Electricity savings (kWh)	Avoided cost for replacement bulbs & labor	Net cost savings				Bulb	Fixture	
Light Bulb - CFL															
Bulb 1 (14 W)	70	\$688	5,289	\$209	1,610	8,145	\$2,989	25,760	\$262	\$3,181	77%	\$70.00	0.1	4.9	-
Bulb 2 (18 W)	27	\$329	2,528	\$104	798	3,893	\$1,429	12,312	\$101	\$1,503	76%	\$27.00	0.1	4.9	-
	0														
	0														
Light Fixture															
- Indoor															
Fixture 1 (26 W)	15	\$301	2,316	\$83	641	3,567	\$1,599	14,100	\$74	\$1,193	78%	\$480.00	1.6	6.1	24
	0														
	0														
	0														
- Outdoor															
	0														
	0														
	0														
	0														
Total	112	\$1,317	10,133	\$396	3,048	15,604	\$6,016	52,172	\$438	\$5,877	77%	\$577	0.4	-	-

Notes: Savings for ENERGY STAR lighting includes an avoided cost for replacements because compact fluorescent bulbs typically last longer than incandescent bulbs. More efficient lighting releases less heat into the surroundings, so upgrading to ENERGY STAR lighting may also have an impact on your heating and cooling costs. Total additional purchase price is the incremental cost for ENERGY STAR equipment reduced by any rebate/incentive amount entered on Inputs tab. Life cycle cost savings are given in terms of present value based on a real discount rate of 4%. See General Assumptions tab to adjust the discount rate. Life cycle net cost savings = life cycle electricity cost savings + avoided replacement cost - additional purchase price. Simple payback calculation is based on total additional purchase price, annual electricity cost savings and annual bulb replacement costs.

If every American home replaced their 5 most frequently used light fixtures or the bulbs in them with ones that have earned the ENERGY STAR, we would save approximately \$8 billion each year in energy costs, and together we would prevent the greenhouse gases equivalent to the emissions from 10 million cars.

This calculator was developed by U.S. EPA and DOE to estimate the energy consumption and operating costs of lighting and the savings with ENERGY STAR. New ENERGY STAR qualified compact fluorescent lighting is compared to the average available new incandescent lighting. Actual savings may vary based on use and other factors. See www.energystar.gov for information on other ENERGY STAR products.

Bulbs given away @ the Green festival



Savings Estimate for ENERGY STAR Qualified Lighting

Results Overview

The ENERGY STAR models of your selected lighting will save approximately 77%. Each year you will save approximately 18,889 kWh of electricity and \$2,456. Over the life of the equipment you will save approximately \$10,675 in electricity costs and \$937 in equipment replacement costs. By choosing ENERGY STAR you will reduce emissions by approximately 29,089 pounds of carbon dioxide annually, which is equivalent to the emissions of 2.6 cars.

Results Detail

	Quantity	Annual Total				Life Cycle Total				Simple payback period for additional initial cost (years)	Assumed equipment lifetime (years)				
		Electricity cost savings	Electricity savings (kWh)	Electricity cost	Electricity consumption (kWh)	Electricity savings (kWh)	Electricity savings (kWh)	Avoided cost for replacement bulbs & labor	Net cost savings		% Electricity Savings with ENERGY STAR	Total additional purchase price	Bulb	Fixture	
Light Bulb - CFL															
Bulb 1 (14 W)	250	\$2,456	18,889	\$747	5,749	29,089	\$10,675	92,000	\$937	\$11,112	77%	\$500.00	0.2	4.9	-
	0														
	0														
	0														
Light Fixture															
- Indoor															
	0														
	0														
	0														
	0														
- Outdoor															
	0														
	0														
	0														
	0														
Total	250	\$2,456	18,889	\$747	5,749	29,089	\$10,675	92,000	\$937	\$11,112	77%	\$500	0.2	-	-

Notes:

- Savings for ENERGY STAR lighting includes an avoided cost for replacements because compact fluorescent bulbs typically last longer than incandescent bulbs.
- More efficient lighting releases less heat into the surroundings, so upgrading to ENERGY STAR lighting may also have an impact on your heating and cooling costs.
- Total additional purchase price is the incremental cost for ENERGY STAR equipment reduced by any rebate/incentive amount entered on Inputs tab.
- Life cycle cost savings are given in terms of present value based on a real discount rate of 4%. See General Assumptions tab to adjust the discount rate.
- Life cycle net cost savings = life cycle electricity cost savings + avoided replacement cost - additional purchase price
- Simple payback calculation is based on total additional purchase price, annual electricity cost savings and annual bulb replacement costs

If every American home replaced their 5 most frequently used light fixtures or the bulbs in them with ones that have earned the ENERGY STAR, we would save approximately \$8 billion each year in energy costs, and together we would prevent the greenhouse gases equivalent to the emissions from 10 million cars.

This calculator was developed by U.S. EPA and DOE to estimate the energy consumption and operating costs of lighting and the savings with ENERGY STAR. New ENERGY STAR qualified compact fluorescent lighting is compared to the average available new incandescent lighting. Actual savings may vary based on use and other factors. See www.energystar.gov for information on other ENERGY STAR products.

Home office Equipment Rebates

Savings Estimate for ENERGY STAR Qualified Office Equipment



Results Overview

The ENERGY STAR models of your selected equipment will save approximately 32%. Each year you will save approximately 634 kWh of electricity and \$82, or \$348 over the life of the equipment. By choosing ENERGY STAR you will reduce emissions by approximately 977 pounds of carbon dioxide annually. This is equivalent to the emissions reduction of not driving your car for 32 days.

Results Detail

	Quantity	Annual					Emissions reduction (pounds of CO2)	% Savings with ENERGY STAR	Total additional purchase price for ENERGY STAR unit(s)	Simple payback period for additional initial cost (years)	Assumed equipment lifetime (years)	Life Cycle		
		Electricity cost savings	Electricity savings (kWh)	Electricity cost	Electricity consumption by ENERGY STAR unit(s) (kWh)	Electricity reduction (pounds of CO2)						Electricity cost savings	Electricity savings (kWh)	Net cost savings
Desktop Computer	4	\$40	307	\$84	647	472	32%	\$0	immediate	4	\$159	1,226	\$159	
Laptop Computer	10	\$31	236	\$67	515	364	31%	\$0	immediate	4	\$123	946	\$123	
Computer Monitor	3	\$6	43	\$20	156	66	21%	\$0	immediate	5	\$28	213	\$28	
Scanner	0													
Copier														
- Laser - Monochrome	0													
- Laser - Color	0													
FAX Machine														
- Ink Jet	0													
- Laser	0													
Multifunction Device														
- Ink Jet	3	\$6	49	\$4	32	75	60%	\$0	immediate	6	\$38	292	\$38	
- Laser - Monochrome	0													
- Laser - Color	0													
Printer														
- Ink Jet	0													
- Laser - Monochrome	0													
- Laser - Color	0													
Total	20	\$82	634	\$176	1,351	977	32%	\$0	immediate	-	\$348	2,676	\$348	

Notes: Life cycle cost savings are given in terms of present value based on a real discount rate of 4%. See General Assumptions tab to adjust the discount rate.
 Net life cycle cost savings = life cycle cost savings - additional purchase price

If every home replaced all of their office equipment with ENERGY STAR qualified equipment, it would remove approximately 15 billion pounds of CO2 from the atmosphere every year, which is equivalent to the emissions of 1.4 million cars or planting 1.5 million acres of trees.

This calculator was developed by U.S. EPA and DOE to estimate the energy consumption and operating costs of office equipment and the savings with ENERGY STAR. New ENERGY STAR qualified products are compared to the average available non-qualified new products. Actual savings may vary based on use and other factors. See www.energystar.gov for information on other ENERGY STAR products.

Commercial Office Equipment Rebates

Savings Estimate for ENERGY STAR Qualified Office Equipment



Results Overview

The ENERGY STAR models of your selected equipment will save approximately 33%. Each year you will save approximately 707 kWh of electricity and \$92, or \$367 over the life of the equipment. By choosing ENERGY STAR you will reduce emissions by approximately 1,088 pounds of carbon dioxide annually. This is equivalent to the emissions reduction of not driving your car for 35 days.

Results Detail

	Quantity	Annual				Emissions reduction (pounds of CO2)	% Savings with ENERGY STAR	Total additional purchase price for ENERGY STAR unit(s)	Simple payback period for additional initial cost (years)	Assumed equipment lifetime (years)	Life Cycle		
		Electricity cost savings	Electricity savings (kWh)	Electricity cost	Electricity consumption by ENERGY STAR unit(s) (kWh)						Electricity cost savings	Electricity savings (kWh)	Net cost savings
Desktop Computer	5	\$87	666	\$179	1,376	1,026	33%	\$0	immediate	4	\$347	2,665	\$347
Laptop Computer	1	\$5	40	\$11	85	62	32%	\$0	immediate	4	\$21	161	\$21
Computer Monitor	0												
Scanner	0												
Copier													
- Laser - Monochrome	0												
- Laser - Color	0												
FAX Machine													
- Ink Jet	0												
- Laser	0												
Multifunction Device													
- Ink Jet	0												
- Laser - Monochrome	0												
- Laser - Color	0												
Printer													
- Ink Jet	0												
- Laser - Monochrome	0												
- Laser - Color	0												
Total	6	\$92	707	\$190	1,461	1,088	33%	\$0	immediate	-	\$367	2,827	\$367

Notes: Life cycle cost savings are given in terms of present value based on a real discount rate of 4%. See General Assumptions tab to adjust the discount rate. Net life cycle cost savings = life cycle cost savings - additional purchase price

If every business replaced all of their office equipment with ENERGY STAR qualified equipment, it would remove approximately 29 billion pounds of CO2 from the atmosphere every year, which is equivalent to the emissions of 2.6 million cars or planting 2.8 million acres of trees.

This calculator was developed by U.S. EPA and DOE to estimate the energy consumption and operating costs of office equipment and the savings with ENERGY STAR. New ENERGY STAR qualified products are compared to the average available non-qualified new products. Actual savings may vary based on use and other factors. See www.energystar.gov for information on other ENERGY STAR products.

F

**Pascoag Utility District- Electric Department (“Department”)
Demand Side Management Charge**

The following provisions will be apply to reflect charges collected under the Demand Side Management Program, pursuant to “An Act Relating to the Utility Restructuring Act of 1996”, #96-H 8124 Substitute B, Section 39-2-1.2(b).

The District proposes to include a charge of 2.3 mills per kilowatt-hour delivered to fund a demand side management program and renewable energy resources. The allocation of this revenue between demand side management programs and renewable energy resources shall be determined by the Commission.

The District will submit semi-annual reports to the Commission documenting funds collected and expended. In the event that revenue collected over or under anticipated revenue, the Department shall apply to the Commission for an annual “true-up”.

Approval Issued:

Requested Effective Date: January 1, 1998

Approval Date: March 20, 1998

G



RISE
ENGINEERING

Financial Summary

Location: Burrillville Schools	Total Project Cost	Estimated PUD Incentive	Customer's Net Cost	Estimated Annual Electrical Savings	Estimated Annual Maintenance Savings	Estimated Annual HVAC Savings	Return on Investment	Years to Payback
High School	\$106,720	\$42,688	\$64,032	\$8,616	\$1,548	\$2,000	19%	5.3
* Middle School	\$6,463	\$2,585	\$3,878	\$723	\$575	\$0	33%	3.0
Levy Café	\$12,500	\$5,000	\$7,500	\$1,808	\$475	\$275	34%	2.9
Steere Farm Gym	\$4,570	\$1,828	\$2,742	\$784	\$135	\$100	37%	2.7
Callahan Gym	\$11,642	\$4,656	\$6,986	\$2,437	\$263	\$350	44%	2.3
Total	\$141,895	\$56,757	\$85,138	\$14,368	\$2,996	\$2,725	24%	4.2

PASCOAG UTILITY REBATES

It's important to note that the PUD incentives provided in this report, while they are consistent with the current available programs, should be considered estimated until written approval is granted by PUD. RISE Engineering will prepare and submit all necessary applications and documentation on your behalf.

* Please note the middle school is in National Grids territory.



Burntville School District - High School
 2300 Bronco Highway
 Burntville, RI 02830
 Dave Fontes

Line Item	Room Name	Fixture Type	Existing Fixture Type	Fixt Qty	Existing Hours	Watts	KW	kWh	Proposed Fixture Type	Fixt Qty	Proposed Hours	Watts	KW	kWh	Sensor Model #	Sensor Qty	kW saved	kWh saved
1	Café	H1	400w MH /HB	24	1,200	455	10.92	13,104	NF 6L 4' T8/HL ECOLYTE (2)3 Lamp Dimming Ballast	24	780	224	5.376	4,193	DT-300	4	5.54	8,911
2	Band Room	H2	250w MH (Blue platform)	4	1,200	295	1.18	1,416	Kit 200w PS/MH LINEAR	4	1,200	218	0.872	1,046		0	0.31	370
3	Chorus Room	H2	250w MH (Blue platform)	6	1,200	295	1.77	2,124	Kit 200w PS/MH LINEAR	6	1,200	218	1.308	1,570		0	0.46	554
4	Auditorium	I1	200w Inc. (Can on Pendant)	50	1,200	200	10.00	12,000	50w LED (On Pendant)	50	1,200	50	2.5	3,000		0	7.50	9,000
0	PE GYM	H3	6L 4' T5HO	28	3,000	351	9.83	29,484	4L 4' T5HO (te-wire from 6 lamp to 4 lamp)	28	1,950	234	6.552	12,776	CMRB-9	28	3.28	16,708
5	Eyeball Wall Packs	I2	70w MH Eye Balls	36	4,380	95	3.42	14,980	13w LED WALL PACK	36	4,380	13	0.468	2,050		0	2.95	12,930
6	Canopy Lights	I3	70w MH Canopy Lights	10	4,380	95	0.95	4,151	40w LED CANOPY	10	4,380	40	0.4	1,752		0	0.55	2,409
7	Tower lights	I4	100W METAL HALIDE	14	4,380	120	1.68	7,358	13w LED WALL PACK	14	4,380	13	0.182	797		0	1.50	6,561
TOTALS										172			39.75	84,527		32	22.09	57,442



Burntville School District - Levy Café
 0.00
 Harrisville, RI 02830
 Dave Fontes

Line Item	Room Name	Fixture Type	Existing Fixture Type	Fixt. Qty	Existing Watts	kW	kWh	Proposed Fixture Type	Proposed Qty	Proposed Hours	Watts	kW	kWh	Sensor Model #	Sensor Qty	kW Saved	kWh Saved
1	Café	H1	250w/MH 2x2	20	2,500	5.90	14,750	4L4-28W T8/LP 8' IND w/Tube Guard & CMRB-6	20	1,625	83	1.66	2,698	CMRB-9	9	4.24	12,053
TOTALS																	
				20		5.90	14,750		20		83	1.66	2,698		9	4.24	12,053



Burrillville School District - Steere Farm Gym
 0.00
 Harrisville, RI 02830
 Dave Fontes

Line Item	Room Name	Fixture Type	Existing Fixture Type	Fixt. Qty	Existing Hours	Watts	W	kWh	Proposed Fixture Type	Fixt. Qty	Proposed Hours	Watts	W	kWh	Sensor Model #	Sensor Qty	kW Saved	kWh Saved
1	Gym	H1	250w MH 2x2	9	3,000	295	2.66	7,965	NF 4L4 T8/HL 2x4 w/wire guard & occupancy sensor	9	1,950	156	1.40	2,738	CMRE-9	9	1.25	5,227
TOTALS																		
				9			2.66	7,965		9		156	1.40	2,738		9	1.25	5,227



Burrillville School District - Middle School
 0.00
 Harrisville, RI 02830
 Dave Fontes

Line Item	Room Name	Fixture Type	Existing Fixture Type	Fixt. Qty	Existing Hours	Watts	kW	kWh	Proposed Fixture Type	Fixt Qty	Proposed Hours	Watts	kW	kWh	kW Saved	kWh Saved
1	EXTERIOR	H1	100W HPS Wall Packs	10	4,380	130	1.30	5,694	NF 20w LED Wall Pack	10	4,380	20	0.20	876	1.10	4,818
2	AUDITORIUM	H2	150w Quartz LAMP	36	2,500	150	5.40	13,500	NO REC	36	2,500	150	5.40	13,500	0.00	0
TOTALS																
				46			6.70	19,194		46		170	5.60	14,376	1.10	4,818

HI

6th Annual Green Festival











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• BICYCLES
• ROLLERBLADES

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PASCOAG
UTILITY DISTRICT

SPECIAL HAZARDS

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FIRE DEPT.
SPECIAL
HAZARDS

6



PASCOAG UTILITY DISTRICT
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SPECIAL HAZARDS

ENTRANCE

NO OVERNIGHT PARKING

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CHANGE THE WORLD, WITH ENERGY STAR

Homeowners can save money on their energy bills by making greenhouse improvements without sacrificing comfort.

EPA's ENERGY STAR label is now on more than 60 different kinds of products. Homes and buildings earn the ENERGY STAR label.

EPA's ENERGY STAR program offers tips and tools to help you make smart choices about home improvement projects to increase energy efficiency.

The average homeowner can save thousands of dollars in energy costs as

Energy Star practices can help you save money, and fight climate change.



HVAC Systems
Have your HVAC system inspected and serviced regularly. Make sure your filters are clean and your system is properly sized for your home.



1. If you're using a water filter, make sure it's certified for lead and copper reduction.
2. To lock up your water filter, push the red cap on the front of the filter housing to the right. Push the red cap on the back of the filter housing to the left.
3. To lock up your water filter, push the red cap on the front of the filter housing to the right. Push the red cap on the back of the filter housing to the left.





Welcome to
BURRILLVILLE
FARMERS' MARKET





PASCOAG
UTILITY DISTRICT





COMMUNITY



CONSERVATION



FOR YOUR HOME



FOR YOUR BUSINESS

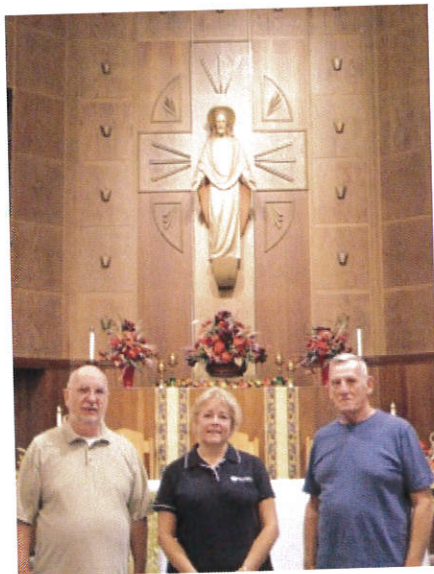


PASCOAG
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News



The Brothers of the Sacred Heart Lighting Project

The Brothers of the Sacred Heart located in Pascoag, completed a very large retrofit lighting project with Thielsch Engineering Inc. also known as RISE Engineering. The Pascoag Utility District's Demand Side Management Program rebated the Brothers 60 % of the project for a total of \$23,997. The estimated saving in lighting usage is 36,431 kWh which will reduce their light bill by \$5,465 per year. Pictured above in the Chapel from left to right are Brother Leo Labbe, Harle Round, and Brother Fred Bouchard.

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News



Hopkins Brothers Lighting Project

Shane and Herbie Hopkins owners of Hopkins Bros. Auto Repair in Harrisville completed a small lighting project in 2012. They took advantage of money from Pascoag Utility District's Demand Side Management Program which provides rebates for energy efficient projects. The Hopkins Brothers received a check for \$883.45 from the DSM Coordinator Harle Round.

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Hopkins Bros.
Auto Repair
401-568-4463
6 Hill Rd Harrisville, RI



I



PASCOAG
UTILITY DISTRICT

253 Pascoag Main Street
P.O. Box 107
Pascoag, R.I. 02859
Phone: (401) 568-6222
Fax: (401) 568-0066

Pascoag Utility District Residential Incentives 2012

Product:

ENERGY STAR refrigerator/freezers/ clothes washer:
ENERGY STAR dishwasher / air purifier:
ENERGY STAR air conditioner:
ENERGY STAR dehumidifier:
ENERGY STAR compliant window, up to 10 windows:

ENERGY STAR compliant door, up to 1 door:
ENERGY STAR heating system replacement:
ENERGY STAR thermostat/ lighting fixtures/Ceiling &
Ventilation fans:
ENERGY STAR electronics and office equipment:
ENERGY STAR central air conditioners:
Free Home Energy Audits with incentives:
New Construction Rebates:
Change a Light Campaign ENERGY STAR Light bulb:
ENERGY STAR Geothermal System
Electric Heat Conversion:

New this year:

Energy Star Qualified Electric Hot Water Heaters:
Smart Power Strips:
Refrigerator and Freezer buy back:

Rebate:

10% of the cost, \$75 maximum
10% of the cost, \$50 maximum
10% of the cost, \$25 maximum
10% of the cost, \$20 maximum
\$15 per window, 10 windows
maximum
\$40 per door, 1 door maximum
10% of the cost, \$250 maximum

50% of the cost, \$50 maximum
15% of total cost, \$50 maximum
10% of total cost, \$200 maximum
10% of cost, up to \$50
\$520 maximum
50% of the cost, \$50 maximum
5% of the cost, \$300 maximum

Please call the District for more details.

5% of the cost, \$100 maximum
25% of cost, \$25 maximum
Please call the District for more details

In 2012 the District will continue with the ENERGY STAR Change a Light Campaign! The ENERGY STAR Change a Light Campaign is a national challenge to encourage every American to help change the world, one light -one energy-saving step - at a time. You can show your commitment by pledging to replace at least one light in your home with one that has earned the ENERGY STAR rating. The Pascoag Utility District has become a pledge driver and would like to invite at least one hundred electric customers to take the pledge. Customers who purchase ENERGY STAR light bulbs can bring in the receipt and receive a 50% incentive not to exceed \$50.00.

***All rebates are subject to funds availability ***

All rebates will be applied to your active electric account. You can down load the applications from our website @ www.pud-ri.org or you can come into the office to pick them up. Please bring in proof that the products are ENERGY STAR compliant and the sales receipt.



PASCOAG
UTILITY DISTRICT

253 Pascoag Main Street
P.O. Box 107
Pascoag, R.I. 02859
Phone: (401) 568-6222
Fax: (401) 568-0066

Pascoag Utility District Commercial Incentives 2012

Product:

ENERGY STAR office equipment:

Rebate:

25%, up to a maximum \$50

ENERGY STAR Standard Appliances:

ENERGY STAR refrigerator/freezers/ clothes washer:

10% of the cost, \$75 maximum

ENERGY STAR dishwasher / air purifier:

10% of the cost, \$50 maximum

ENERGY STAR air conditioner:

10% of the cost, \$25 maximum

ENERGY STAR dehumidifier:

10% of the cost, \$20 maximum

ENERGY STAR compliant window, up to 10 windows:

\$15 per window, 10 windows max.

ENERGY STAR Commercial Appliances:

10%, up to a max rebate of \$350

(Commercial Dishwashers, Commercial Fryers,
Commercial Ice machines, Commercial Hot Food
Holders, Commercial Griddles, Commercial Ovens,
Commercial Steam Cookers, Commercial Clothes
Washers, Vending Machines).

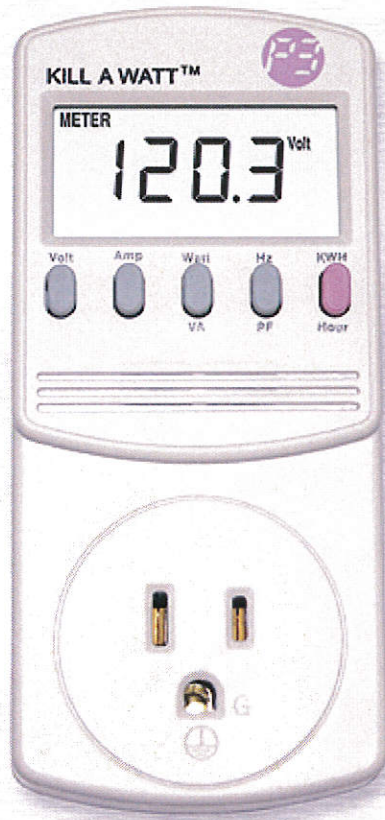
Lighting and Lighting control rebates are available on commercial and industrial accounts - please call the District office for approval and to check on the availability of funds before starting a lighting project. The rebates are 60% on a retrofit lighting project and 40% on a new lighting project.

The District also offers Incentives on the following:

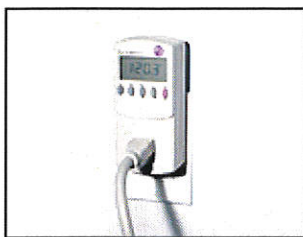
- HVAC Systems
- High Efficiency Motors
- Compressed Air
- Variable Speed Drives

***All rebates are subject to funds availability. Please contact the District office before starting a project. All rebates will be applied to your active electric account.

Kill A Watt®



[Download Manual](#)



Electricity bills are rising. Now you can cut down on costs and find out what appliances are actually worth keeping plugged in. Simply connect these appliances to the Kill A Watt®, and it will assess how efficient they really are. Large LCD display will count consumption by the Killowatt-hour, same as your local utility. You can calculate your electrical expenses by the day, week, month, even an entire year. Also check the quality of your power by monitoring Voltage, Line Frequency, and Power Factor. Now you'll know if it is time for a new refrigerator or if that old air conditioner is still saving you money. With the amazing Kill A Watt® you'll know "Watts" killing you.

- Large LCD display
- Cumulative Killowatt-Hour Monitor
- Forecast Your Costs
- Also display Volts, Amps, Watts, Hz, VA
- 0.2% Accuracy



PASCOAG
UTILITY DISTRICT

Pascoag Utility District "PUD" has purchased several Kill A Watt® measuring devices which can be loaned out by the residents of Burrillville. They are available at the Jesse M. Smith Memorial Library in Harrisville, the Pascoag Ladies Library in Pascoag, and at the PUD District Office.



PASCOAG
UTILITY DISTRICT

2012



JANUARY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Replace old inefficient incandescent bulbs with new CFL or LED bulbs to save between \$50 and \$100 a year in energy costs.

FEBRUARY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			

Keep the damper closed in the fireplace when not in use. If open, the heat you're paying for goes right up the chimney, and it's like having a window open in the middle of winter....a waste of energy, money, and brrrrr!

MARCH

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

When dust and pet hair build up on refrigerator condenser coils, the motor works harder and uses more electricity. Gently vacuum under coils so that air can circulate freely.

APRIL

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Need to replace an appliance? Purchase an energy star model and save on your bills.

MAY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Make sure to change the direction of airflow on ceiling fans. In winter let fans push warm air toward the floor and, in summer, switch the direction and draw air upward, cooling each room and ensuring constant air flow.

JUNE

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Avoid the backlog during heating season by requesting a Home Energy Audit during the summer. It's a great way to learn how to save energy and energy dollars year round...and there is no cost! 888-772-4242

JULY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Make sure A/C equipment is in top running order. Cooling can put the greatest strain on summer bills.

AUGUST

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Be sure your home is properly insulated to save up to 20% on energy bills. Still haven't gotten around to requesting a Home Energy Audit? Now is a good time to schedule this no cost service! 888-772-4242

SEPTEMBER

S	M	T	W	T	F	S
					1	
2	3	4	5	6	7	8
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

To prepare for the heating season plug energy leaks. Weatherizing can be done economically, using materials such as caulking, weather-stripping and insulation where needed.

OCTOBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Haunted by Vampire Power? Find electronic devices that drain power when not in use (ex. cell phone charger), then unplug those that are turned off. A power strip makes it easy to cut power to multiple appliances with one flip of the switch.

NOVEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

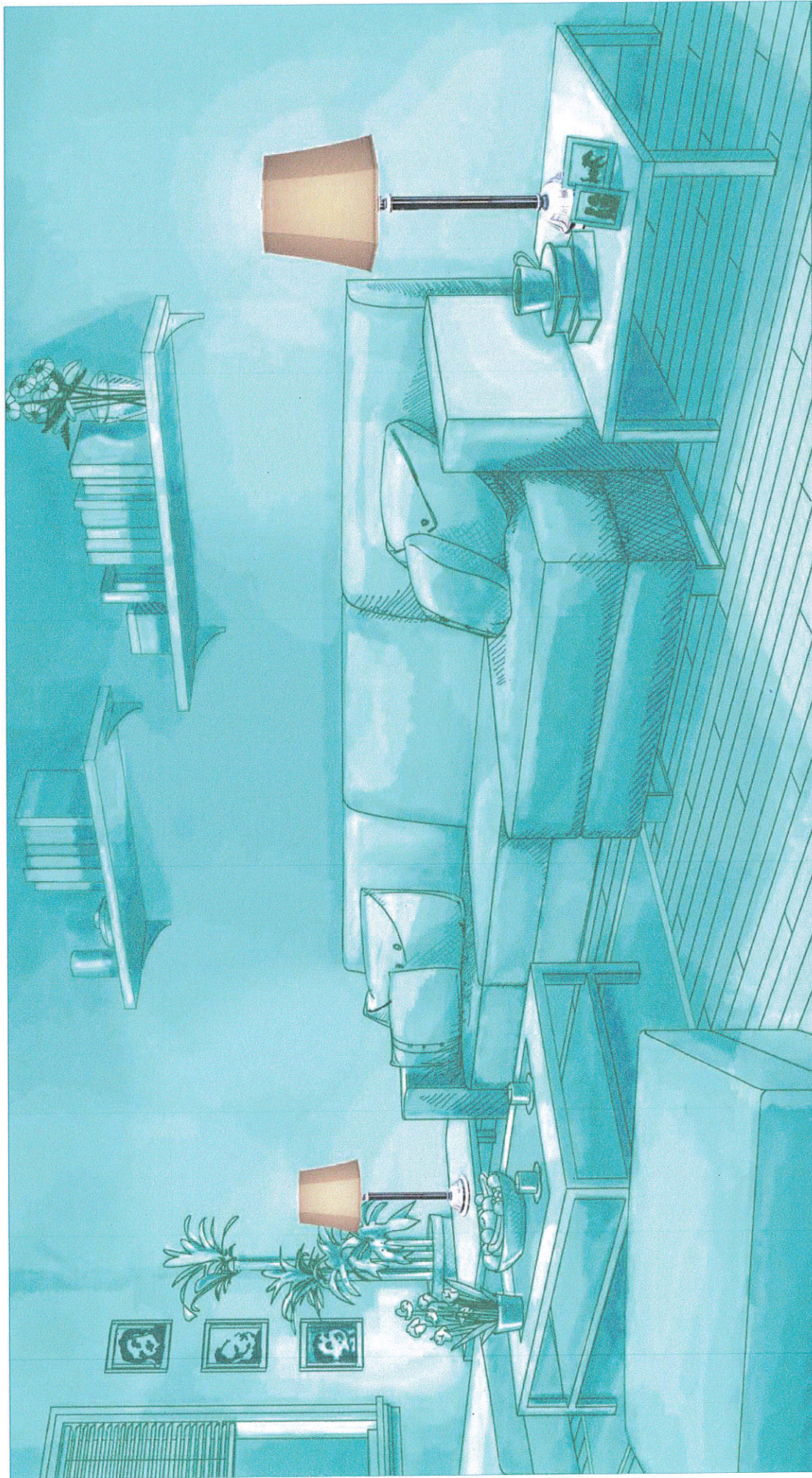
Save on heating bills by turning down the thermostat. For every one degree its turned down you can save up to 3% on your heating bill.

DECEMBER

S	M	T	W	T	F	S
					1	
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

'Tis the season... to use energy efficient holiday lighting! These bulbs come in a variety of styles and colors. LEDs, fiber optic lights, and candelabra compact fluorescent lamps (CFLs) use substantially less energy.

TIPS TO HELP SAVE ENERGY AND ENERGY DOLLARS ALL YEAR ROUND



U.S. DEPARTMENT OF ENERGY
ENERGY STAR® QUALIFIED LIGHT BULBS
2009 PARTNER RESOURCE GUIDE

For more information visit:
www.energystar.gov
1.888.STAR.YES (1.888.782.7937)

U.S. DEPARTMENT OF
ENERGY



July 2009

SECTION I: CONSUMER INFORMATION—AWARENESS



With about 20 percent of your electric bill going toward lighting, the low, up-front cost and quick payback time for an upgrade to ENERGY STAR qualified light bulbs can really help shave electricity costs—a real bonus in tough times.

DID YOU KNOW?

CFLs are made up of more than 50 parts, most of them in the ballast. Older CFLs used large and heavy magnetic ballasts that sometimes caused a buzzing noise. ENERGY STAR qualified CFLs use electronic ballasts, which don't buzz or hum.

OUT WITH THE OLD

The basic design of incandescent light bulbs has not changed much since they were invented by Thomas Edison in 1879. Incandescent bulbs create light by passing electricity through a metal wire until it becomes so hot that it glows. These bulbs are very inefficient, converting only 10 percent of the electricity consumed into visible light. The remaining 90 percent of the electricity is actually released as heat!

IN WITH THE NEW

Compact fluorescent light bulbs can create the same amount of light as incandescent bulbs using only one-quarter of the energy and heat. ENERGY STAR qualified CFLs last between 6,000 and 15,000 hours, or 5 to 13 years, based on an average use of three hours a day.

CFLs don't look or always act like incandescent bulbs because they use different technology to produce light. In a CFL, instead of electricity running through a simple wire (as in incandescent bulbs), electricity passes through a tube. The current excites gases inside the coated glass tubing, causing a reaction that produces light.

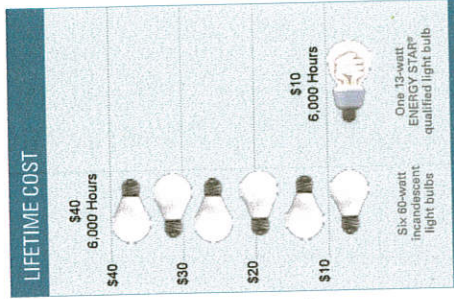
It isn't always simple to put CFLs into existing lighting controls with dimmers, timers, motion sensors, or photocells. Older controls were designed to work with the simple technology of the incandescent bulb and not the more complex technology that a CFL uses. This is why it's important to check to make sure you can use CFLs with your existing controls, and only use bulbs marked "dimmbable" with dimmer switches.

SECTION I: CONSUMER INFORMATION—BENEFITS

ENJOY ENERGY SAVINGS AND MORE!

The average U.S. household has more than 40 sockets for light bulbs, ranging from table lamps to ceiling fixtures.² Larger homes can have even more. Lighting accounts for about 20 percent of annual household electricity bills, or over \$200 per year in the average household.³ Replacing incandescent bulbs with ENERGY STAR qualified light bulbs provides significant benefits for consumers.

- **SAVE TIME AND EFFORT.** ENERGY STAR qualified light bulbs can last more than five years, compared to about 11 months for an incandescent bulb.⁴
- **SAVE ENERGY AND MONEY.** Over its lifetime, one ENERGY STAR qualified light bulb eliminates the need for at least six incandescent bulbs and saves you more than \$30. By changing five bulbs to ENERGY STAR, you save more than \$150!⁵
- **SAVE THE ENVIRONMENT.** When you choose an ENERGY STAR qualified light bulb, you are helping protect the environment by reducing air pollution and greenhouse gas emissions.
- **STAY COOL.** Because ENERGY STAR qualified light bulbs run cooler, they reduce cooling needs.



ENERGY STAR SAVINGS

INCANDESCENT LIGHT BULB (WATTS)	ENERGY STAR QUALIFIED LIGHT BULB (WATTS)	ANNUAL SAVINGS			LIFETIME SAVINGS		
		6,000 HOURS	8,000 HOURS	10,000 HOURS*	6,000 HOURS	8,000 HOURS	10,000 HOURS*
40	9	\$4	\$4	\$20	\$24	\$24	\$52
60	13	\$6	\$6	\$31	\$42	\$42	\$78
75	20	\$7	\$7	\$37	\$49	\$49	\$91
100	23	\$9	\$9	\$51	\$68	\$68	\$128

*Most ENERGY STAR qualified CFLs are rated at 10,000 hours.

13-WATT ENERGY STAR QUALIFIED LIGHT BULB		60-WATT INCANDESCENT LIGHT BULB	
PURCHASE PRICE	\$3.00		\$0.50
LIFETIME	6,000 HOURS		1,000 HOURS
NUMBER OF REPLACEMENTS IN 5 YEARS	0		5
COST OF REPLACEMENT LIGHT BULBS	\$0.00		\$2.50
OPERATION COST (ELECTRICITY COST)	\$8.65		\$39.92
TOTAL COST	\$11.65		\$42.92



The average ENERGY STAR qualified light bulb is designed to last 10,000 hours—more than seven years, based on typical household use. That's long enough to watch your first-grader transform into a teenager!

DID YOU KNOW?

If every American home replaced just one light bulb with an ENERGY STAR qualified bulb, we would save enough energy to light more than 3 million homes for a year, avoid more than \$600 million in annual energy costs, and prevent greenhouse gases equivalent to the emissions of more than 800,000 cars.

SAVE ENERGY

If you replace five regular light bulbs with ENERGY STAR qualified light bulbs, you'll save more than 1,400 kWh over the lifetime of the bulbs.⁷ That's enough energy to:

- Run your ENERGY STAR qualified clothes washer for more than seven years.⁸
- Light your whole house for nearly nine months.¹⁰

SAVE MONEY

Five ENERGY STAR qualified light bulbs will save more than \$150 in electricity costs over their lifetime.¹¹ That's enough money to:

- Purchase ENERGY STAR qualified bulbs for the rest of your home.¹²
- Purchase an ENERGY STAR qualified room air conditioner.¹³
- Buy five tanks of gas at \$2 a gallon.¹⁴

SAVE TIME

An ENERGY STAR qualified light bulb will last six times longer on average than an equivalent incandescent bulb. The long life will save you:

- Five trips up a ladder to change out bulbs in hard-to-reach fixtures.
- Five bad jokes about "How many dads does it take to change a light bulb?"

SAVE THE ENVIRONMENT

If you replace five regular light bulbs with ENERGY STAR qualified light bulbs, it would save as much greenhouse gases as:¹⁵

- Is produced by burning over 1,000 pounds of coal.¹⁶
- Planting nearly 47 trees.¹⁷
- Avoiding a 2,000 mile trip in your car.¹⁸



For an interactive learning experience, visit www.energystar.gov/CFLs and click on the Choose a Light Guide.

WHERE TO USE: FIVE BRIGHT IDEAS

There are ENERGY STAR qualified light bulbs for nearly every household application. To maximize your savings and the bulbs' performance, use these tips.

- **REPLACE THE BULBS YOU USE MOST.** ENERGY STAR qualified light bulbs provide the greatest savings in fixtures that are on the longest. In many homes, these bulbs are in the family room, living room, kitchen, dining room, and porch.
- **ALLOW FOR AIRFLOW.** Indoors, ENERGY STAR qualified bulbs perform best in open fixtures that allow airflow, such as table and floor lamps, wall sconces, pendants, and open ceiling fixtures.
- **PUT THEM UP HIGH.** ENERGY STAR qualified bulbs last an average of five years, and new performance requirements for indoor reflector bulbs ensure long life in recessed can fixtures. So put them in hard-to-reach places and give your ladder a break.
- **PROTECT BULBS OUTDOORS.** When used outdoors, bulbs should be placed in enclosed fixtures to protect them from the weather.
- **USE CAUTION WITH LIGHT CONTROLS.** Since most light controls were designed for incandescent bulbs, fluorescent bulbs should only be used with controls designed to work with fluorescent lights. If a light fixture has a dimmer or a three-way socket, you'll need to use a special bulb designed to work in these applications. Check the packaging to find that special bulb.

SECTION I: CONSUMER INFORMATION—HOW TO CHOOSE THE RIGHT AMOUNT OF LIGHT

START WITH QUESTIONS

Finding the right ENERGY STAR qualified light bulb for your home is easy! Just ask yourself three questions:

1. What shape and size of light bulb will fit the fixture?
2. How much light do I need in the room?
3. Do I want a warm yellow glow or a cooler shade of white light?

WHAT SHAPE?

Different fixtures need different types of bulbs. Use the chart opposite to find your fixture and then see which bulbs work best in it.

- DIMMABLES AND THREE-WAY BULBS. Light fixtures with a dimmer or a three-way socket need to use a special ENERGY STAR qualified light bulb designed to work in these applications. Check the packaging to find that special bulb.
- TROUBLESHOOTING. Most photocells, motion sensors, and timers are not designed to work with CFLs. Check with the manufacturer of the control for compatibility.

THE RIGHT AMOUNT OF LIGHT

The higher the lumen rating, the greater the amount of light. To save energy costs, find the bulbs with the light output you need, then choose the ENERGY STAR qualified light bulb with the lowest watts. Light bulb manufacturers include comparison information on the packaging. Common terms include "Soft White 60" or "60-watt Replacement."

HOW MUCH LIGHT DO I NEED?		
INCANDESCENT BULBS (WATTS)	MINIMUM LIGHT OUTPUT (LUMENS)	COMMON ENERGY STAR QUALIFIED BULBS (WATTS)
25	250	4 to 9
40	450	9 to 13
60	800	13 to 15
75	1,100	18 to 25
100	1,600	23 to 30
125	2,000	22 to 40
150	2,600	40 to 45



"Warm light 60" means that this CFL provides the same light as a 60-watt incandescent bulb. "Warm" indicates a color temperature between 2700-3000K.

SECTION I: CONSUMER INFORMATION—HOW TO CHOOSE THE RIGHT BULB

HOW TO CHOOSE THE RIGHT ENERGY STAR® QUALIFIED LIGHT BULB

	SPHAL	COVERED A-SHAPE	GLOBE	TUBED	CANDLE	INDOOR REFLECTOR	OUTDOOR REFLECTOR
TABLE/ROOM							
TABLE/FIRES							
CENTRAL FIXTURES							
CENTRAL FANS							
WALL SCONCES							
RECESSED CANNS							
TRACK LIGHTING							
OUTDOOR COVERED							
OUTDOOR FLOOR							

LOOK FOR THE LUMENS
Watts are a measure of power; lumens are a measure of light. More lumens mean more light. ENERGY STAR qualified CFLs produce the same amount of lumens as incandescent bulbs, but use about one quarter of the power.

LUMENS **WATTS**

AVOID EARLY BURNOUT!

- Only bulbs marked "Dimmable" or "Three-way" will work on dimmers or three-way switches.
- Most photocells and timers are not designed to work with CFLs.
- For recessed cans, only those bulbs marked "indoor reflector" or "for indoor use."

LEARN MORE AT www.energystar.gov

SECTION I: CONSUMER INFORMATION—HOW TO CHOOSE THE RIGHT SHADE OF LIGHT

DIFFERENT SHADES OF WHITE

Like all fluorescent lighting, CFLs are available in a wide variety of shades of white light, which allows you to customize the mood of your space. Many CFLs come in “warm” colors to match the yellowish light of incandescent bulbs, but you can also choose “cooler” colors with whiter or bluer light. The color of light is technically referred to as the “color temperature,” which is measured on the Kelvin scale. Lower kelvin numbers mean the light has a warmer glow, like a candle, while higher kelvin numbers mean the light appears cooler, like the sky.

ENERGY STAR qualified bulbs must fall within the range of one of the six designated color temperatures (2700K, 3000K, 3500K, 4100K, 5000K, or 6500K). The color temperature is listed on product packaging.

TYPICAL COLOR TEMPERATURES	
1500K	Candlelight
2600K	40-watt Incandescent Bulb
3000K	Halogen Bulb
3200K	Sunrise/Sunset
3400K	1-Hour from Dusk/Dawn
5500-6500K	Camera Flash
9000-12000K	Blue Sky

<p>WARM LIGHT: CFLs in the 2700-3000K range are commonly marked “soft white” or “warm white.” These bulbs will produce a familiar yellowish glow just like incandescents.</p> 	
<p>BRIGHT WHITE LIGHT: CFLs in the 3500-4100K range are sometimes marked “bright white” or “cool white.” The light from these bulbs will appear more white than yellow. This light is great for working in the kitchen.</p> 	
<p>DAYLIGHT: CFLs in the 5000-6500K range are often marked “natural” or “daylight” because the color of the light is like daylight at noon. This light will appear cooler—even bluish—the higher the number. This light is great for reading and work spaces.</p> 	

SECTION I: CONSUMER INFORMATION—TROUBLESHOOTING

	<p>DO THE TWIST. Screw in your CFL by holding the ballast (the white plastic part), NOT the glass tubing.</p>
	<p>DON'T FLIP TOO FAST. Turning the bulb on and off quickly will reduce the lifetime. While results will vary with different bulbs, you'll maximize the lifetime savings of your CFLs by using them when the light is on for several minutes at a time.</p>
	<p>CHOOSE 3 FOR 3. Only use bulbs labeled as three-way on three-way sockets.</p>
	<p>DON'T DIM A NON-DIMMABLE. Only use bulbs labeled as dimmable on dimmer switches.</p>
	<p>CHECK YOUR CONTROLS. Most photocells, motion sensors, and electric timers are not designed to work with CFLs. Always check with the manufacturer of the control for compatibility.</p>
	<p>GIVE THEM AIR. CFLs are sensitive to extreme temperatures, so place your CFLs in open fixtures indoors. Using them in enclosed fixtures indoors can reduce the lifetime of the bulbs. Use covered reflectors in recessed cans.</p>
	<p>PROTECT THEM OUTSIDE. Outdoors, protect bulbs from the elements by placing them inside enclosed fixtures. In colder climates, check the packaging for optimal operating temperatures.</p>

Learn more about ENERGY STAR qualified CFLs at www.energystar.gov/cfls.

SECTION I: CONSUMER INFORMATION—RECYCLING



RECYCLE USED CFLS

When your CFL is finished, you'll want to take it to be recycled. CFLs contain a small amount of mercury sealed within the glass tubing—usually less than 5 milligrams—about the size of the period at the end of this sentence. By comparison, an older thermometer contains about 500 milligrams of mercury.

- For help locating a recycling center that accepts CFLs, visit www.epa.gov/bulbrecycling or www.lamprecycle.org. Search by ZIP code at www.recycleabulb.com or www.earth911.com.
- If your CFL breaks, you can easily clean it up. Follow the U.S. EPA's recommendations for cleanup at www.energystar.gov/CFLsandMercury.

CFLS REDUCE THE MERCURY IN THE ENVIRONMENT

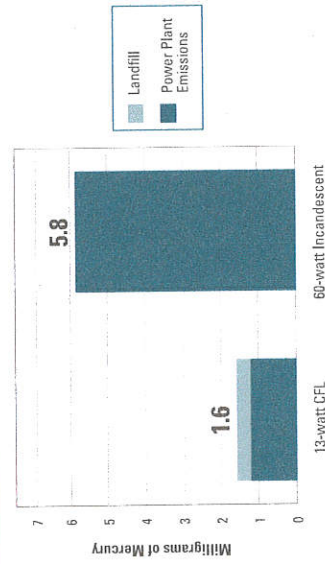
Burning coal to produce electricity is the main source of mercury emissions in the United States. Because they use less electricity than incandescent lights, CFLs actually reduce the amount of mercury released into the environment. A 13-watt, 8,000-hour CFL will save 376 kWh over its lifetime compared to its 60-watt incandescent equivalent, thus preventing 4.6 mg of mercury from entering the environment.

If the bulb goes to a landfill, overall emissions savings would drop slightly to 4.2 mg. Because most mercury binds to the inside of a CFL as it is used, EPA estimates that only about 11 percent is released into the air and water when the CFL goes to a landfill (assuming it is broken). Recycle CFLs where possible to maximize mercury savings.

DID YOU KNOW?

The average mercury content in CFLs has dropped significantly in recent years, thanks to technological advances and a commitment from members of the National Electrical Manufacturers Association. Manufacturers continue to make further reductions; some CFLs now contain as little as 1-2 milligrams of mercury per bulb.

TOTAL MERCURY EMISSIONS, CFLs AND INCANDESCENTS



Source: U.S., EPA, June 2008

SECTION II: MARKET INFORMATION

ENERGY STAR MARKET SHARE

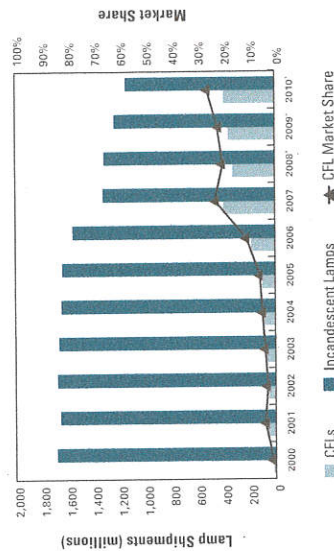
CFL shipments have grown tremendously, especially in the last three years. From 21 million lamps in 2000 to 397 million lamps in 2007, market share grew 52 percent (compound annual growth rate). CFLs have captured an increasing share of the market for medium screw-based lamps, growing from 1 percent to 23 percent between 2000 and 2007, or about 3 percentage points a year. Despite increased interest in and demand for energy savings, current data indicate that CFL shipments fell in 2008. This suggests that additional support may be needed to help sustain the market.⁹

The future market for incandescent lamps is also uncertain. Because each CFL effectively replaces at least five incandescent lamps over its lifetime, incandescent lamp sales have already begun to decline substantially and will continue to fall. In addition, the Energy Independence and Security Act of 2007 will increase efficiency standards for all lamps over the next six years. While incandescent lamps may improve in efficiency during this time, current ENERGY STAR qualified CFLs already meet the new energy efficiency standards, and the market will likely continue to shift to CFLs.



This poster is an example of collateral available to partners to promote the switch to ENERGY STAR qualified CFLs.

CFL AND INCANDESCENT LAMP SHIPMENTS BY YEAR



Projections
Source: D&B International, Ltd., 2009.

SECTION III: ENERGY STAR CRITERIA




When installing CFLs, twist the bulb from the plastic part, not the glass tubing.

ENERGY STAR qualified CFLs must meet a number of efficiency and quality benchmarks to earn the label. A few examples are listed below.

- **ENERGY EFFICIENCY.** The efficiency of light bulbs is referred to as efficacy, which is the measure of light output (lumens) compared to the energy needed to power the bulb (watts). ENERGY STAR qualified CFLs generally provide three to four times more lumens per watt than incandescent bulbs.
- **LONG LIFETIME.** The minimum lifetime requirement is 6,000 hours, which is about five years, based on typical use. The most common lifetime of all ENERGY STAR qualified CFLs is 10,000 hours. Some last as long as 15,000 hours.
- **QUALITY ASSURANCE.** All qualified bulbs are required to carry a manufacturer warranty of at least two years for residential use and at least one year for commercial use. Qualified CFLs are subject to independent third-party testing.
- **QUICK START.** Bulbs must start in under a second. Note that start time is different than warm-up time, i.e., the time it takes for a CFL to come to full brightness. Bulbs must reach full brightness in less than three minutes.
- **SAFETY.** Bulbs must be UL listed for fire safety.
- **RELIABILITY.** Bulbs must pass tests that show they can withstand voltage surges and frequent on/off cycling.

NEW FOR 2009! ENERGY STAR CFL CRITERIA

- **HIGH HEAT PROTECTION.** Indoor reflector CFLs must pass a high-heat test to ensure more reliable performance in recessed can lights.
- **CANDELABRA BASE.** The smaller screw bases are now eligible for qualification.
- **COLOR CONSISTENCY.** Bulbs must fall within the range of one of the six designated color temperatures (2700K, 3000K, 3500K, 4100K, 5000K, or 6500K), which must be listed on product packaging so consumers can find the color they prefer.
- **RECYCLING AND MERCURY EDUCATION.** Product packaging must include the  symbol for mercury and one of the approved Web site addresses for locating lamp recycling facilities. Manufacturers must file a commitment form for mercury reduction with the National Equipment Manufacturers Association. For more information, please visit www.cfl-mercury.org.

Candellabra base CFLs are new to the ENERGY STAR family.



END NOTES

1. Assumes the replacement of a 60-watt incandescent light bulb with a 13-watt ENERGY STAR qualified bulb, qualified bulb purchase price of \$3 and lifetime of 6,000 hours, incandescent purchase price of \$0.30 and lifetime of 1,000 hours, and an average electric rate of 11.08¢ per kWh over the life of the qualified bulb.
2. CFL Market Profile March 2009 U.S. Department of Energy www.energystar.gov/products/downloads/CFL_Market_Profile.pdf
3. CFL Market Profile March 2009 U.S. Department of Energy www.energystar.gov/products/downloads/CFL_Market_Profile.pdf
4. An average household consumes 10,680 kWh per year in electricity total, including an average of 1,950 kWh for lighting. Cost assumes an average electric rate of 11.08¢ per kWh.
5. ENERGY STAR Campaign Assumptions www.energystar.gov/products/globalwarming/Facts_and_Assumptions.pdf
6. Assumes three hours of use per day. The minimum lifetime of an ENERGY STAR qualified light bulb is 6,000 hours. The average lifetime of an incandescent light bulb is 1,000 hours.
7. Assumes the replacement of a 60-watt incandescent light bulb with a 13-watt ENERGY STAR qualified bulb, qualified bulb purchase price of \$3 and lifetime of 6,000 hours, incandescent purchase price of \$0.30 and lifetime of 1,000 hours, and an average electric rate of 11.08¢ per kWh over the life of the qualified bulb.
8. EPA ENERGY STAR Fact Sheet on CFLs and mercury found at www.energystar.gov/CFLsandMercury.
9. Assumes the replacement of five 60-watt 1,000-hour incandescent light bulbs with five 13-watt 6,000-hour ENERGY STAR qualified bulbs.
10. The average ENERGY STAR qualified clothes washer consumes 195 kWh of energy each year. This assumes electric water heating and an average annual load of 392 loads.
11. An average household consumes 1,950 kWh per year for lighting.
12. Assumes the replacement of five 60-watt incandescent light bulbs with five 13-watt ENERGY STAR qualified bulbs, qualified bulb purchase price of \$3 and lifetime of 6,000 hours, incandescent purchase price of \$0.30 and lifetime of 1,000 hours, and an average electric rate of 11.08¢ per kWh over the life of the qualified bulbs.
13. Assumes 36 CFLs at \$-5 per bulb.
14. ENERGY STAR qualified mini air conditioners come in a large range of price points, including some small units for less than \$150.
15. All unit facts below assume CO₂ savings of 1.54 lbs per kWh of electricity saved, and more than 1,400 kWh for five bulbs changed. ENERGY STAR Campaign Assumptions www.energystar.gov/products/globalwarming/Facts_and_Assumptions.pdf
16. Typical coal emissions factor is 2.14 lbs of CO₂ per pound of coal. ENERGY STAR Campaign Assumptions www.energystar.gov/products/globalwarming/Facts_and_Assumptions.pdf
17. One savings sequesters 85 pounds of CO₂ over 10 years, averaging 8.5 pounds per year. www.epa.gov/energy/energy-resources/refs.html
18. The average vehicle produces 1,038 pounds of CO₂ per mile traveled. ENERGY STAR Campaign Assumptions www.energystar.gov/products/globalwarming/Facts_and_Assumptions.pdf
19. CFL Market Profile March 2009 U.S. Department of Energy www.energystar.gov/products/downloads/CFL_Market_Profile.pdf

Refrigerators & Freezers – Tips and Facts

Two major appliances with a voracious appetite for power are the refrigerator and the freezer. Refrigerators can be power pigs, scarfing up to 7% of your electric bill and freezers are among the most significant energy-consuming appliances in the average home. In most cases only space conditioning (heating and cooling) and water heating use more energy. While most people are aware of the importance of saving energy on heating, cooling, and water heating, the energy consumed by refrigerators and freezers is often overlooked.

How much is that 6-Pack Costing you? If you have a second refrigerator in your garage or basement it's probably costing more than you think...as much as \$100 per year! That's a stiff price to pay to keep a few beverages cool.

The temperature of the air around a refrigerator significantly affects its energy usage. Don't keep a refrigerator in the garage, near heat sources such as ranges, stoves or dishwashers or in direct sunlight. A refrigerator or freezer located in a garage or area where temperatures reach 90° F or higher can use a significant amount of energy – as much as 45-50% more. Give a refrigerator space and allow for good air circulation around the coils.

Likewise, if ambient air temperature drops below about 40 degrees Fahrenheit, the thermostat on the refrigerator may not run its cooling and defrost cycles for the appropriate amount of time. And refrigerators are not designed to heat their interiors, so placing a refrigerator in an environment that is below freezing may result in the freezing of your foods.

As with refrigerators, the garage is a bad place to keep a freezer because they use a significant amount of energy in rooms with temperatures at or above 90° F. Because of less thermal spillage and better insulation, chest freezers do use less energy than upright models.

Refrigerator Maintenance - Because these appliances run every day, small steps taken to improve their efficiency can leap into giant savings over the course of a year.

- **Prolong the life of the refrigerator gasket sealing by wiping it regularly with warm water. Once the gasket starts deteriorating, you're in for a big waste of energy and money. Test the quality of the seal by closing the door on a sheet of paper. The sheet should be firmly anchored. Repeat the test along the length of the gasket. Adjust the door hinges or replace the gasket if the seal is bad.**
- **A dusty condenser coil reduces a refrigerator's efficiency and shortens its life. Clean it several times a year with a coil brush or a soft bristle attachment on a canister-style vacuum cleaner. Unplug the refrigerator first. Cleaning coils regularly will help your refrigerator run more smoothly, which means lower energy usage.**
- **Always follow the manufacturer's recommendations, and disconnect the power before performing ANY maintenance on your refrigerator.**

Facts to Consider - A ten year-old refrigerator or freezer can cost considerably more to operate than a new energy-efficient model of the same size. Improvements in the design of compressors and cooling coils, better insulation, tighter door seals, and other design improvements all contribute to the higher efficiencies of newer

Energy Star qualified refrigerators and freezers provide energy savings without sacrificing the features you want. When considering the purchase of a new refrigerator or freezer, look for the **Energy Star** label. It looks like this:



The **Energy Star** label is designed to help consumers identify appliances that have been rated by the federal government as the most energy-efficient products on the market. Appliances with an **Energy Star** label exceed existing federal efficiency standards, typically by 13% to 20%, and as much as 110% for some appliances.

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Heating Season....

Consumers can do more than hope for mild weather this winter as they turn on their heating systems. They can take actions that could help reduce their bills and offset soaring energy prices. The American Council for an Energy-Efficient Economy (ACEEE) offers 5 practical steps for consumers to take right now at little or no cost:

- ***Change furnace filters. Monthly replacement of furnace filters in forced-air heating systems can save as much as 5% on heating bills.***
- ***Insulate windows with coverings. Close blinds and drapes at night to keep cold air out and open them in the day to let warm sun in. Cover windows with insulating shades or plastic sheeting to cut down heat transfer from inside to outside.***
- ***Install a programmable thermostat to set different temperatures during the night and day. Program it to warm up the house in the morning, keep it cooler during the day while residents are away, and warm it up again in the evening until bedtime. Consumers can save about 2% on heating bills for every degree thermostats are turned down.***
- ***Seal doors with draft-reducing weatherstripping and door sweeps to cut down on spaces where cold air can enter the house.***
- ***Lower the water heater's thermostat to the lowest level that meets your hot water needs, typically to 120°F (midway between the "low" and "medium" setting on many units). Each 10-degree reduction could help you save 3% to 5% on water heating costs.***

In the face of a long heating season, consumers can use smart energy practices and energy-efficiency technologies to save significantly on their monthly energy bills, and contribute to energy conservation.

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For more information call the Energy New England Hotline at: 1-888-772-4242

TEN NO COST/LOW COST TIPS TO SAVE ON YOUR ENERGY BILL

- 1) **Bundle up your home** - Hidden gaps and cracks in the home can add up to as much air-flow as an open window. The more heat that escapes, the more cold air gets in, causing your heating system to work harder, use more energy, and costing you energy \$\$'s. Start by sealing air leaks and pay special attention to your attic and basement, where the biggest gaps and cracks are often found. Weatherizing can be done economically using materials such as caulking, weatherstripping, and insulation...where needed.
- 2) **Put on a sweater and save a few dollars** - For every notch you raise the thermostat, your bill goes up by 3%. Try reducing the temperature if possible. Turning down the thermostat by 10 degrees at night or when the house is unoccupied can save as much as 20% of heating costs. Remember, small children and the elderly in particular may be vulnerable to problems at lower temperatures. Reduce the temperature gradually to give your body time to adjust to the new temperature level.
- 3) **Let the sunshine in** - Be sure to open draperies and blinds on sunny days to let the sunlight warm your home. But remember to close them at night and on overcast days.
- 4) **Don't light up the whole room** - Most of us know to turn off the lights when we leave a room. However even while in a room, if a small reading lamp can be used, just light up your area instead of the whole room. Of course also replacing incandescent light bulbs with compact fluorescent (CFL's) can save \$30. to \$40. over the life of the bulb.
- 5) **Get a heating system tuneup** - A heating and cooling professional can perform an annual inspection and routine maintenance to make sure your furnace is operating at peak performance.
- 6) **Keep the damper closed on your fireplace when not in use** - If you keep the damper open, all the heat you are paying for is going right out the chimney. Remember if the damper is not closed; it's like having a window open in the middle of winter....a waste of energy, money and....brrrrrr.
- 7) **Reduce hot water temperature** - Set your water heater to the "normal" setting of 120 degrees, unless the owner's manual for your dishwasher requires a higher setting. Savings are 7-11% of water heating costs.
- 8) **Shorten showers** - Simply reducing that lingering time by a few minutes can save hundreds of gallons of hot water per month for a family of four. Showers account for 2/3 of your water heating costs. Cutting your showers in half can reduce hot water costs by 33%.
- 9) **Discontinue the use of that older second refrigerator** - Got an old beer fridge in the basement? Unplug it and make the trek upstairs to your kitchen refrigerator. It will be good for your heart and your energy bill.
- 10) **Make use of your oven's leftover heat** - An oven will keep its heat for about 15 - 20 minutes after it is turned off. Use this heat to keep things such as second courses, desserts, or anything else that may need to be kept warm.

Beware of
V-a-m-p-i-r-e P-o-w-e-r!!!

Vampire power is created by any appliance that continues to draw power when not in use, which, in the typical home, includes dozens of appliances ranging from the clock radio on your night stand to the computer in your home office. A couple of watts here, a couple of watts there are sucked away 24 hours a day, 365 days a year. Seem scary?.....**it could be!!!**

Some household appliances are sneaky and draw power even when they are shut off. The source of that drain has been given any number of derogatory names, from vampire power to wall wart to phantom load. And like all vampires, this villain goes without notice --until the electricity bill arrives at the end of the month.

Vampire power can best be spotted at night. Turn off all the lights and look around your home. Every appliance marked by an LED light, or anything else that glows, is drawing electricity. Not everything that leads to vampire power can be seen in the dark, however. Some must be felt. Cell phone chargers, for example, draw electricity when they are plugged in, whether they are connected to the phone or not.

Uncertain whether an appliance is drawing electricity? Try laying your hands on it. If it's an electrical item that's warm to the touch, it's using energy. Anything that must be reset after a power failure, or anything that operates by remote control (e.g., televisions, VCRs, etc.) draws electricity even when they are turned off. Even your doorbell is indirectly nickel-and-diming your electric bill.

Not all vampire power can be eliminated. For starters, smoke and carbon monoxide detectors draw vampire power but provide life-saving service. And although not a matter of life or death, unplugging other phantoms is not very practical. Most of us wouldn't think of cutting the power to our alarm clocks and then resetting them before bed each night. So even though not all vampire power is bad, we tend to forget about it and the energy/\$\$...it consumes.

The good news is that there are ways to stop being haunted by vampire power.

First, identify which electronic devices drain power when not in use, then unplug those that are turned off. And a very easy way to cut all power to multiple appliances at one time with one flip of the switch is use a surge protector or power strip. Finally when it is time to replace an electronic device, look for energy efficient models that waste less energy.

So get ready to pick up your stake and take a stab at saving energy.....and \$\$.

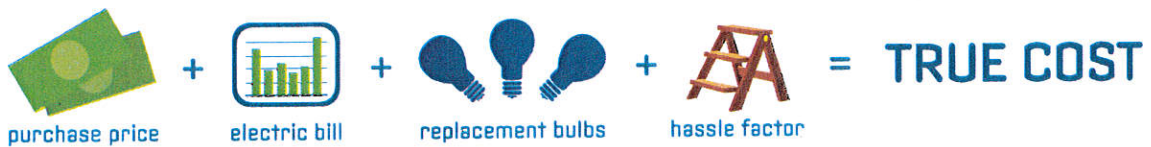
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The True Cost of a Light Bulb

Costs to consider before you check out.

The obvious cost of a light bulb is the sticker price, but that's not the whole story. After you leave the checkout counter, there are several other costs involved.

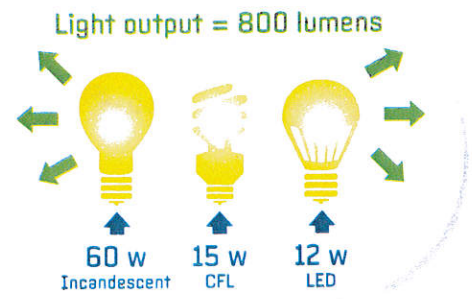


With energy efficient bulbs, such as LEDs and CFLs, you will get more light per dollar – guaranteed.

Save money at the flip of a switch.

For decades there was only one type of light bulb: Thomas Edison's incandescent. But now, there are energy efficient bulbs that can save you money every time you flip the switch.

For example, the 60 watt incandescent bulb uses 60 watts of energy to produce 800 lumens of light. A CFL bulb generates 800 lumens from 15 watts of energy and an LED bulb generates 800 lumens from 12 watts of energy.



The fewer the watts, the lower the electric bill.

Number of bulbs needed to equal one LED:

An ENERGY STAR® qualified LED will last on average 25 years. Much longer than other bulbs!* Imagine never having to climb a ladder to change your bulb again!



=



25



25



A lifetime of savings.

The lifespan of each type of bulb varies. LEDs last 25 years and CFLs last 9 years while halogens and incandescent bulbs last about a year on average. This means that not only can your CFL or LED bulb use less electricity – it can also last a lot longer.

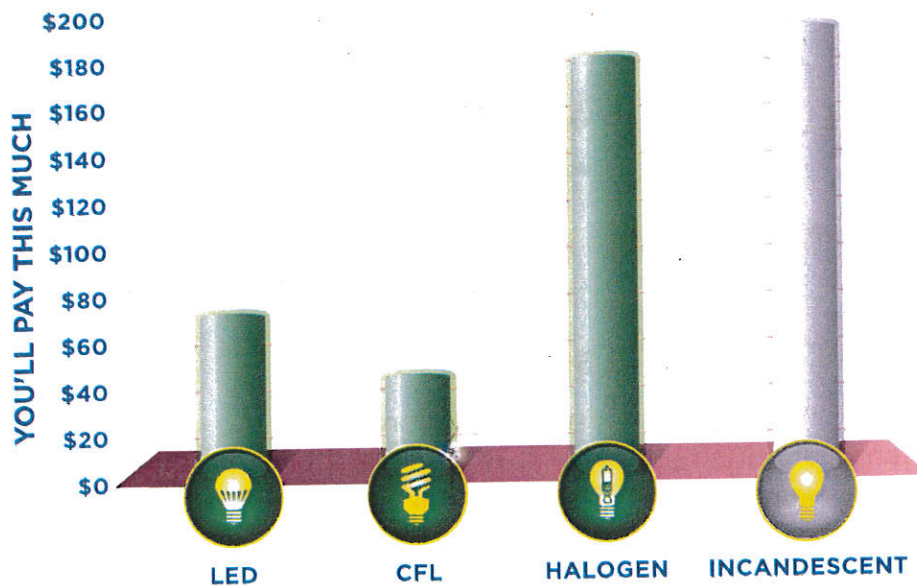
Costs you can't see.

Imagine if the next time you climb that ladder to change a burned out bulb, it's the last time. With today's LEDs lasting 25 years, that's 25 years of hassle-free light. Not having to scale that ladder may not have a monetary value, but it's still worth something. Wouldn't you agree?



The total cost of a light bulb over 25 years.

When factoring the true cost of a light bulb over time and adding the intangible benefits, it makes sense to make the switch to high efficiency light bulbs.



Over time, incandescent bulbs cost you significantly more than other alternatives. Total cost of light includes, initial bulb price, light bulb replacement costs and energy costs over 25 years. Assumes bulbs are on for 3 hours a day.

Costs shown are for 60 Watt equivalent bulbs which produce approximately 800 lumens of light output.

QUICK FACTS:

- ☀ The average family spends \$200 a year to light their home. This cost can be significantly reduced by using LEDs or CFLs.
- ☀ LEDs use approximately 80% less energy than incandescent bulbs.
- ☀ CFLs use approximately 75% less energy than incandescent bulbs.
- ☀ LEDs last 25 years, CFLs last 9 years and incandescents last only 1 year.
- ☀ Energy efficient bulbs reduce the need for new power plants and lessen our dependence on foreign oil.

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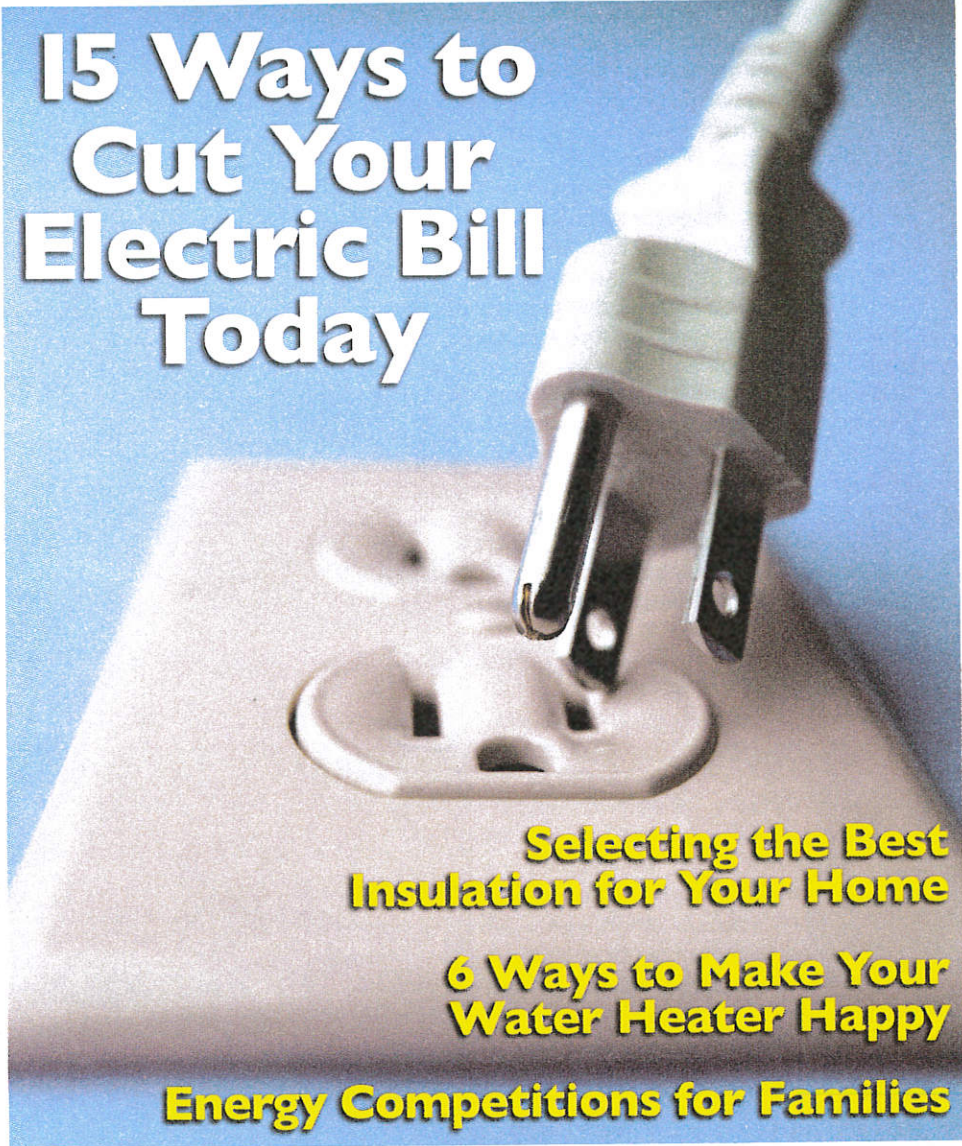
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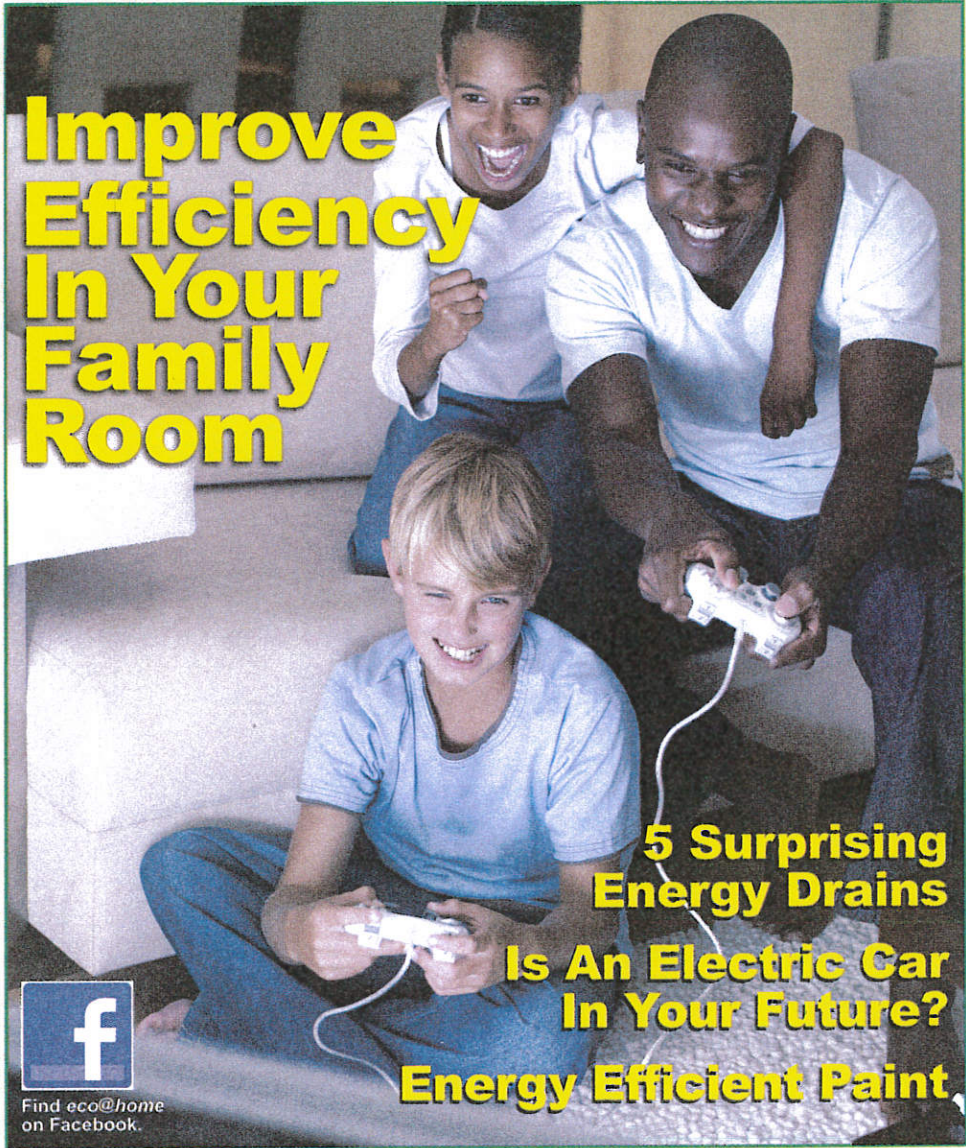
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Brothers of the
Sacred Heart
Rebate



RISE ENGINEERING Division of Thielsch Engineering, Inc
 1341 Elmwood Avenue
 Cranston, Rhode Island 02910

Brothers of the Sacred Heart
 685 Steere Farm Rd.
 Pascoag, RI
 Bros. Fred

Proposal Summary

5/8/2012

Estimated Current Lighting Load (Wattage)		37,466	Watts
Estimated Proposed Lighting Load (Wattage)		20,056	Watts
Estimated Lighting Load Savings (Wattage)		17,411	Watts
Estimated Current Lighting Usage (kWh)		75,975	kWh
Estimated Proposed Lighting Usage (kWh)		39,544	kWh
Estimated Lighting Usage Savings (kWh)		36,431	kWh
Estimated Current Annual Lighting Bill:	kWh * 0.15	\$ 11,396	
Estimated Proposed Annual Lighting Bill:	kWh * 0.15	\$ 5,932	
Estimated Proposed Annual Lighting Bill Savings:		\$ 5,465	

Estimated Total Job Cost		\$ 39,995.00
Estimated Utility Incentive		\$ (23,997.00)
Estimated Customer Net Cost		\$ 15,998.00
Maintenance Savings		\$ 2,436
Net Heating and AC Savings		\$ 525
Simple Payback (Customer Share/Bill Savings):	Years =	1.9
SO2 Reduction (shown in kilograms)		145.7
NOX Reduction (shown in kilograms)		51.8

Approved by PUC



Brothers of the Sacred Heart
685 Steere Farm Rd.
Pascoag, RI
Bros. Fred

Line Item	Room Name	Fixture Type	Existing Fixture Type	Fixt. Qty	Existing Hours	Watts	KW	KWh	Proposed Fixture Type	Fixt. Qty	Proposed Hours	Watts	KW	KWh	Proposed Hours	Watts	KW	KWh	KW Saved	kWh Saved
1	Rm 301	C1	3L4" T8/ELIG	4	2,000	88	0.35	704	FLRB 3L4 28W T8/PLP 2X4	4	2,000	63	0.25	504	2,000	63	0.25	504	0.10	200
2	Rm 302	C1	3L4" T8/ELIG	2	2,000	88	0.16	352	FLRB 3L4 28W T8/PLP 2X4	2	2,000	63	0.13	252	2,000	63	0.13	252	0.05	100
3	Bathroom	B1	2L4" T8/ELIG	1	1,500	60	0.06	90	FLRB 2L4 28W T8/PLP 4" WALL	1	1,500	42	0.04	63	1,500	42	0.04	63	0.02	27
4	Stairway	D1	2L4" EE/EE/MAG 2X2 U/S	1	2,000	70	0.07	140	NF 2L4" 28W T8/PLP 2X4 PRISM	1	2,000	42	0.04	84	2,000	42	0.04	84	0.03	56
5	Computer Rm	C2	2L4" T8/ELIG	5	2,000	60	0.30	600	FLRB 2L4 28W T8/PLP 2X4	5	2,000	42	0.21	420	2,000	42	0.21	420	0.09	180
6	Computer Rm	C2	2L4" T8/ELIG	5	2,000	60	0.30	600	FLRB 2L4 28W T8/PLP 2X4	5	2,000	42	0.21	420	2,000	42	0.21	420	0.09	180
7	Rm 205	C1	3L4" T8/ELIG	2	2,000	88	0.18	352	FLRB 3L4 28W T8/PLP 2X4	2	2,000	63	0.13	252	2,000	63	0.13	252	0.05	100
8	Hallway and Stairway	E1	2/7W COMPACT HW	7	8,760	18	0.13	1,104	KIT 1.5W LED EXIT	7	8,760	15	0.01	92	8,760	15	0.01	92	0.12	1,012
9	Centre and End Stairway	D1	2L4" EE/EE/MAG 2X2 U/S	2	2,000	70	0.14	280	NF 2L4" 28W T8/PLP 2X4 PRISM	2	2,000	42	0.08	168	2,000	42	0.08	168	0.06	112
10	Rm 208,209,210,211	C1	3L4" T8/ELIG	4	2,000	88	0.35	704	FLRB 3L4 28W T8/PLP 2X4	4	2,000	63	0.25	504	2,000	63	0.25	504	0.10	200
11	Rm 204	C3	2L4" EE/EE/MAG	2	2,000	70	0.14	280	FLRB 2L4 28W T8/PLP 2X4	2	2,000	42	0.08	168	2,000	42	0.08	168	0.06	112
12	Rm 203	C4	4L4" EE/EE/MAG	1	2,000	140	0.14	280	NF 3L4 28W T8/PLP 2X4 PRISM	1	2,000	63	0.06	126	2,000	63	0.06	126	0.08	154
13	Rm 202	C1	3L4" T8/ELIG	1	2,000	88	0.09	176	FLRB 3L4 28W T8/PLP 2X4	1	2,000	63	0.06	126	2,000	63	0.06	126	0.03	50
14	Rm 201, 200	C1	3L4" T8/ELIG	6	2,000	88	0.53	1,056	FLRB 3L4 28W T8/PLP 2X4	6	2,000	63	0.38	756	2,000	63	0.38	756	0.15	300
15	Secretary Office	C1	3L4" T8/ELIG	1	2,000	88	0.09	176	FLRB 3L4 28W T8/PLP 2X4	1	2,000	63	0.06	126	2,000	63	0.06	126	0.03	50
16	Hallway	C3	2L4" EE/EE/MAG	6	2,000	70	0.42	840	FLRB 2L4 28W T8/PLP 2X4	6	2,000	42	0.25	504	2,000	42	0.25	504	0.17	336
17	Chapel	I1	90W INC	48	2,000	90	4.32	8,640	26W CFL FLOOD	48	2,000	28	1.34	2,588	2,000	28	1.34	2,588	2.98	5,952
18	Chapel	I2	120W INC	6	2,000	120	0.72	1,440	26W CFL FLOOD	6	2,000	24	0.14	288	2,000	24	0.14	288	0.58	1,152
19	Chapel - alter	I3	120W INC	8	2,000	120	0.95	1,920	26W CFL FLOOD	8	2,000	24	0.19	384	2,000	24	0.19	384	0.77	1,536
20	Chapel - alter	I3	120W INC	8	2,000	120	0.95	1,920	26W CFL FLOOD	8	2,000	24	0.19	384	2,000	24	0.19	384	0.77	1,536
21	Sacrestein	B1	2L4" T8/ELIG	1	1,500	60	0.06	90	FLRB 2L4 28W T8/PLP 4" WALL	1	1,500	42	0.04	63	1,500	42	0.04	63	0.02	27
22	Sacrestein	E1	2/7W COMPACT HW	1	8,760	18	0.02	158	KIT 1.5W LED EXIT	1	8,760	15	0.00	13	8,760	15	0.00	13	0.02	145
23	Rm 101	C1	3L4" T8/ELIG	1	2,000	88	0.09	176	FLRB 3L4 28W T8/PLP 2X4	1	2,000	63	0.06	126	2,000	63	0.06	126	0.03	50
24	Hallway	C1	3L4" T8/ELIG	5	2,000	88	0.44	880	FLRB 3L4 28W T8/PLP 2X4	5	2,000	63	0.32	630	2,000	63	0.32	630	0.13	250
25	Front Entrance	C1	3L4" T8/ELIG	1	2,000	88	0.09	176	FLRB 3L4 28W T8/PLP 2X4	1	2,000	63	0.06	126	2,000	63	0.06	126	0.03	50
26	Ladies Rm	I4	60W INC	2	1,000	60	0.12	120	13W CFL TWIST	2	1,000	15	0.03	30	1,000	15	0.03	30	0.09	90
27	Foyer	I4	60W INC	3	2,000	60	0.18	360	13W CFL TWIST	3	2,000	15	0.05	90	2,000	15	0.05	90	0.14	270
28	Prayer Rm	C4	4L4" EE/EE/MAG	12	2,000	140	1.68	3,360	NF 3L4 28W T8/PLP 2X4 PRISM	12	2,000	63	0.76	1,512	2,000	63	0.76	1,512	0.92	1,848
29	Rm 102, 103, 104, 105	C1	2L4" T8/ELIG	4	2,000	88	0.35	704	FLRB 2L4 28W T8/PLP 2X4	4	2,000	63	0.25	504	2,000	63	0.25	504	0.10	200
30	Rm 102, 103, 104, 105, 106, 108	C2	2L4" T8/ELIG	5	2,000	60	0.30	600	FLRB 2L4 28W T8/PLP 2X4	5	2,000	42	0.21	420	2,000	42	0.21	420	0.09	180
31	Rm 108	C1	3L4" T8/ELIG	3	2,000	88	0.26	528	FLRB 3L4 28W T8/PLP 2X4	3	2,000	63	0.19	378	2,000	63	0.19	378	0.08	150
32	Rm 109	C4	4L4" EE/EE/MAG	2	2,000	140	0.28	560	NF 3L4 28W T8/PLP 2X4 PRISM	2	2,000	63	0.13	252	2,000	63	0.13	252	0.15	308
33	Women's Rm	D2	2L4" T8/ELIG 2X2 U/S	6	1,000	60	0.36	360	NF 3L4 28W T8/PLP 2X4 PRISM	6	1,000	53	0.32	318	1,000	53	0.32	318	0.04	42
34	Prep Rm	A1	2L8" EE/EE/MAG	1	2,000	123	0.12	246	KIT 4L4 28W T8/PLP 8" STRIP	1	2,000	83	0.08	166	2,000	83	0.08	166	0.04	80
35	Prep Rm	B2	4L4" EE/EE/MAG	1	2,000	140	0.14	280	FLRB 4L4 28W T8/PLP	1	2,000	83	0.08	166	2,000	83	0.08	166	0.06	114
36	Prep Rm	C1	3L4" T8/ELIG	1	2,000	88	0.08	176	FLRB 3L4 28W T8/PLP 2X4	1	2,000	63	0.06	126	2,000	63	0.06	126	0.03	50



Brothers of the Sacred Heart
685 Steere Farm Rd.
Passoaig, NJ
Gros. Fred

Line Item	Room Name	Fixture Type	Existing Fixture Type	Fixt. Qty	Existing Hours	Watts	KW	kWh	Proposed Fixture Type	Fixt. Qty	Proposed Hours	Watts	kW	kWh	kW Saved	kWh Saved
37	Coinder Hall	C4	4L4' EE/EMAG	21	2,000	140	2.94	5,880	NF 3L4' 28W T8/LP 2X4 PRISM	21	2,000	63	1.32	2,646	1.62	3,234
38	Storage	B2	4L4' EE/EMAG	3	1,000	140	0.42	420	RURB 4L4' 28W T8/LP	3	1,000	83	0.25	249	0.17	171
39	Rm 112	C1	3L4' T8/ELIG	2	2,000	88	0.18	352	RURB 3L4' 28W T8/LP 2X4	2	2,000	63	0.13	252	0.05	100
40	Bulltin Board	B3	1L4' EE/EMAG	1	8,760	40	0.04	350	RURB 1L4' 28W T8/LP 4' STRIP	1	8,760	22	0.02	193	0.02	158
41	Dining Rm	C4	4L4' EE/EMAG	9	2,000	140	1.26	2,520	NF 3L4' 28W T8/LP 2X4 PRISM	9	2,000	63	0.57	1,134	0.69	1,386
42	Dining Rm	B1	2L4' T8/ELIG	1	2,000	60	0.06	120	RURB 2L4' 28W T8/LP 4' WALL	1	2,000	42	0.04	84	0.02	36
43	Dish Rm	B1	2L4' T8/ELIG	6	2,000	60	0.36	720	RURB 2L4' 28W T8/LP 4' WALL	6	2,000	42	0.25	504	0.11	216
44	Kitchen	B1	2L4' T8/ELIG	15	2,000	60	0.90	1,800	RURB 2L4' 28W T8/LP 4' WALL	15	2,000	42	0.63	1,260	0.27	540
45	Kitchen	C1	3L4' T8/ELIG	2	2,000	88	0.18	352	RURB 3L4' 28W T8/LP 2X4	2	2,000	63	0.13	252	0.05	100
46	Kitchen	B1	2L4' T8/ELIG	1	2,000	60	0.06	120	RURB 2L4' 28W T8/LP 4' WALL	1	2,000	42	0.04	84	0.02	36
47	Exit	B1	2L4' T8/ELIG	1	2,000	60	0.06	120	RURB 2L4' 28W T8/LP 4' WALL	1	2,000	42	0.04	84	0.02	36
48	Kitchen	E1	2/7W COMPACT HW	1	8,760	18	0.02	158	KIT 1.5W LED EXIT	1	8,760	1.5	0.00	13	0.02	145
49	Stairway Exit	I4	60W INC	3	2,000	60	0.18	360	13W CFL TWIST	3	2,000	15	0.05	90	0.14	270
50	Workshop	I5	60W INC	3	2,000	60	0.18	360	13W CFL TWIST	3	2,000	15	0.05	90	0.14	270
51	Workshop	C1	3L4' T8/ELIG	1	2,000	88	0.09	176	RURB 3L4' 28W T8/LP 2X4	1	2,000	63	0.06	126	0.03	50
52	Workshop	C5	4L4' T8/ELIG	2	2,000	112	0.22	448	RURB 4L4' 28W T8/LP 2X4	2	2,000	83	0.17	332	0.06	116
53	Workshop	B4	2L4' EE/EMAG	3	2,000	70	0.21	420	NF 2L4' 28W T8/LP 4' STRIP	3	2,000	42	0.13	252	0.08	168
54	Workshop	A2	2L8' EE/EMAG	1	2,000	123	0.12	246	NF 4L4' 28W T8/LP 8' STRIP	1	2,000	83	0.08	166	0.04	80
55	Workshop	A3	8L4' EE/EMAG	2	2,000	280	0.56	1,120	NF 4L4' 28W T8/LP 8' WRAP	3	2,000	83	0.25	498	0.31	622
56	Workshop	B1	2L4' T8/ELIG	1	2,000	60	0.06	120	RURB 2L4' 28W T8/LP 4' WALL	1	2,000	42	0.04	84	0.02	36
57	Workshop	I6	150W INC	1	2,000	150	0.15	300	NF 2L4' 28W T8/LP 4' STRIP	1	2,000	42	0.04	84	0.11	216
58	Workshop	B1	2L4' T8/ELIG	4	2,000	60	0.24	480	RURB 2L4' 28W T8/LP 4' WALL	4	2,000	42	0.17	336	0.07	144
59	Workshop	B4	2L4' EE/EMAG	2	2,000	70	0.14	280	NF 2L4' 28W T8/LP 4' STRIP	2	2,000	42	0.08	168	0.06	112
60	Workshop	A4	4L4' T8/ELIG	2	2,000	112	0.22	448	RURB 4L4' 28W T8/LP 8' STRIP	2	2,000	83	0.17	332	0.06	116
61	Workshop	A2	2L8' EE/EMAG	6	2,000	123	0.74	1,476	NF 4L4' 28W T8/LP 8' STRIP	6	2,000	83	0.50	996	0.24	480
62	Elevator Area	I7	60W INC	7	2,000	60	0.42	840	NF 1L4' 28W T8/LP 4' WRAP	7	2,000	22	0.15	308	0.27	532
63	Elevator Area	B5	2L4' T8/ELIG	1	2,000	60	0.06	120	NF 2L4' 28W T8/LP 4' STRIP	1	2,000	42	0.04	84	0.02	36
64	Elevator Area	C6	3L4' T8/ELIG	1	2,000	88	0.09	176	NF 2L4' 28W T8/LP 2X4 PRISM	1	2,000	42	0.04	84	0.05	92
65	Elevator Area	A2	2L8' EE/EMAG	1	2,000	123	0.12	246	NF 4L4' 28W T8/LP 8' STRIP	1	2,000	83	0.08	166	0.04	80
66	Elevator Area	E1	2/7W COMPACT HW	1	8,760	18	0.02	158	KIT 1.5W LED EXIT	1	8,760	1.5	0.00	13	0.02	145
67	Work out Rm	C7	4L4' EE/EMAG	2	2,000	140	0.28	560	NF 2L4' 28W T8/LP 2X4 PRISM	4	2,000	42	0.17	336	0.11	224
68	Costume Rm	A2	2L8' EE/EMAG	4	2,000	123	0.49	984	NF 4L4' 28W T8/LP 8' STRIP	2	2,000	83	0.17	332	0.33	652
69	Costume Rm	B5	2L4' T8/ELIG	2	2,000	60	0.12	240	NF 2L4' 28W T8/LP 4' STRIP	2	2,000	42	0.08	168	0.04	72
70	Barbar Shop	C5	4L4' T8/ELIG	3	2,000	112	0.34	672	RURB 4L4' 28W T8/LP 2X4	3	2,000	83	0.25	498	0.09	174
71	Barbar Shop	B1	2L4' T8/ELIG	1	2,000	60	0.06	120	RURB 2L4' 28W T8/LP 4' WALL	1	2,000	42	0.04	84	0.02	36
72	Old Bathroom	I7	60W INC	1	2,000	60	0.06	120	NF 1L4' 28W T8/LP 4' WRAP	1	2,000	22	0.02	44	0.04	76



Brothers of the Sacred Heart
685 Steere Farm Rd.
Pascoag, RI
Bros. Fred

Line Item	Room Name	Fixture Type	Existing Fixture Type	Fixt Qty	Existing Hours	Watts	kW	kWh	Proposed Fixture Type	Fixt Qty	Proposed Hours	Watts	kW	kWh	kWh Saved	kW Saved			
73	Rm 001	A1	2L8' EE/EEMAG	13	2,000	123	1.50	3,198	KIT 4L4 28W T8/LP 8' STRIP	13	2,000	83	1.08	2,158	0.52	1,040			
74	Rm 001	B1	2L4' T8/ELIG	1	2,000	60	0.06	120	RURB 2L4' 28W T8/LP 4' WALL	1	2,000	42	0.04	84	0.02	36			
75	Rm 001	B5	2L4' T8/ELIG	0	2,000	60	0.00	0	NF 2L4' 28W T8/LP 4' STRIP	1	2,000	42	0.04	84	-0.04	-84			
76	Rm 9	B1	2L4' T8/ELIG	2	2,000	60	0.12	240	RURB 2L4' 28W T8/LP 4' WALL	2	2,000	42	0.08	168	0.04	72			
77	Rm 8	B1	2L4' T8/ELIG	4	2,000	60	0.24	480	RURB 2L4' 28W T8/LP 4' WALL	4	2,000	42	0.17	336	0.07	144			
78	Rm 6	B8	120W INC	1	2,000	120	0.12	240	RURB 2L4' 28W T8/LP 8' VP	1	2,000	83	0.08	166	0.04	74			
79	Rm 5	A5	2L8' EE/EEMAG	2	2,000	123	0.25	492	KIT 2L4' 28W T8/LP 8' STRIP	2	2,000	42	0.08	168	0.16	324			
80	Records Rm	C1	3L4' T8/ELIG	6	2,000	88	0.53	1,056	RURB 3L4 28W T8/LP 2X4	6	2,000	63	0.38	756	0.15	300			
81	Open Area - Egg Crate	A2	2L8' EE/EEMAG	8	2,000	123	0.98	1,968	NF 4L4 28W T8/LP 8' STRIP	8	2,000	83	0.66	1,328	0.32	640			
82	Open Area - Hallway	A1	2L8' EE/EEMAG	3	2,000	123	0.37	738	KIT 4L4 28W T8/LP 8' STRIP	3	2,000	83	0.25	498	0.12	240			
83	Open Area	B5	2L4' T8/ELIG	1	2,000	60	0.06	120	NF 2L4' 28W T8/LP 4' STRIP	1	2,000	42	0.04	84	0.02	36			
84	Open Area	E1	2/7W COMPACT HW	1	8,760	18	0.02	158	KIT 1.5W LED EXIT	1	8,760	1.5	0.00	13	0.02	145			
85	Rm 23	A1	2L8' EE/EEMAG	2	2,000	123	0.25	492	KIT 4L4 28W T8/LP 8' STRIP	2	2,000	83	0.17	332	0.08	160			
86	Rm 23	B4	2L4' EE/EEMAG	3	2,000	70	0.21	420	NF 2L4' 28W T8/LP 4' STRIP	3	2,000	42	0.13	252	0.08	168			
87	Rm 23	B6	1L3' EE/EEMAG	1	2,000	38	0.04	76	NF 1L4' 28W T8/LP 4' STRIP	1	2,000	22	0.02	44	0.02	32			
88	Rm 26	I7	60W INC	1	2,000	60	0.06	120	NF 1L4' 28W T8/LP 4' WRAP	1	2,000	22	0.02	44	0.04	76			
89	Boiler Rm	A4	4L4' T8/ELIG	6	1,500	112	0.67	1,008	RURB 4L4 28W T8/LP 8' STRIP	6	1,500	83	0.50	747	0.17	261			
90	Hallway	A4	4L4' T8/ELIG	5	2,000	112	0.56	1,120	RURB 4L4 28W T8/LP 8' STRIP	5	2,000	83	0.42	830	0.15	290			
91	Hallway	E1	2/7W COMPACT HW	4	8,760	18	0.07	631	KIT 1.5W LED EXIT	4	8,760	1.5	0.01	53	0.07	578			
92	Rm 29	A1	2L8' EE/EEMAG	1	2,000	123	0.12	246	KIT 4L4 28W T8/LP 8' STRIP	1	2,000	83	0.08	166	0.04	80			
93	Greenhouse Rm	B1	2L4' T8/ELIG	20	2,000	60	1.20	2,400	RURB 2L4' 28W T8/LP 4' WALL	20	2,000	42	0.84	1,680	0.36	720			
94	Greenhouse Rm	A1	2L8' EE/EEMAG	1	2,000	123	0.12	246	KIT 4L4 28W T8/LP 8' STRIP	1	2,000	83	0.08	166	0.04	80			
95	Garage & Storage	I9	90W INC	10	2,000	90	0.90	1,800	NF 2L4' 32W T8/LP 4' VP	10	2,000	60	0.60	1,200	0.30	600			
96	Storage	E1	2/7W COMPACT HW	1	8,760	18	0.02	158	KIT 1.5W LED EXIT	1	8,760	1.5	0.00	13	0.02	145			
97	Lower Sacstein	E1	2/7W COMPACT HW	1	8,760	18	0.02	158	KIT 1.5W LED EXIT	1	8,760	1.5	0.00	13	0.02	145			
98	Lower Sacstein	I6	150W INC	2	2,000	150	0.30	600	NF 2L4' 28W T8/LP 4' STRIP	2	2,000	42	0.08	168	0.22	432			
99	Lower Sacstein	I4	60W INC	2	2,000	60	0.12	240	13W CFL TWIST	2	2,000	15	0.03	60	0.09	180			
100	Garage 1-5	A6	2L8' EE/EEMAG	6	2,000	123	0.74	1,476	NF 4L4 28W T8/LP 8' VP	6	2,000	83	0.50	996	0.24	480			
101	Garage A-E	I8	120W INC	5	2,000	120	0.60	1,200	NF 4L4 28W T8/LP 8' VP	5	2,000	83	0.42	830	0.19	370			
102	On Pole	I10	100W MERCURY	1	2,000	120	0.12	240	70W MH FLOOD w/PE	1	2,000	95	0.10	190	0.03	50			
103	Small Tool Shop	A1	2L8' EE/EEMAG	1	2,000	123	0.12	246	KIT 4L4 28W T8/LP 8' STRIP	1	2,000	83	0.08	166	0.04	80			
104	Staircase	I3	120W INC	2	2,000	120	0.24	480	28W CFL FLOOD	2	2,000	24	0.05	96	0.19	364			
TOTALS										404			37.47	75,975		20.06	39,544	17.41	36,431

Hopkins Bros.
Auto Repair
Rebate

DI 1204

8-Retro
4-New

8-1-12
HR

\$ 883.45

RETROFIT

2011 Lighting – Systems & Controls

Customer Information

COMPANY NAME North Main Auto/Hopkin's Brothers Act # 9445-7370 APPLICATION DATE 6-1-12

INSTALLATION SITE _____ PHONE NUMBER 401-568-4463

CONTACT PERSON Herbie Hopkins FAX NUMBER _____

E-MAIL ADDRESS _____ SQ. FT. (covered by this application) _____

STREET ADDRESS 6 Hill Rd, Harrisville RI 02830 CITY _____ STATE _____ ZIP _____

MAILING ADDRESS (if different) _____ CITY _____ STATE _____ ZIP _____

ELECTRIC COMPANY NAME Pascoag Utility District ELECTRIC ACCOUNT # (or copy of electric bill) 9445-7370

GAS COMPANY NAME _____ GAS ACCOUNT # (or copy of gas bill) _____

BUILDING TYPE: (select one) TOTAL FACILITY SQ. FT. _____

Assembly Fast Food Hotel Multi Story Retail Religious Small Retail
 Automobile Full Service Restaurant Large Refrigerated Space Multifamily high-rise K-12 Schools University
 Big Box Grocery Large Office Multifamily low-rise Small Office Warehouse
 Community College Heavy Industrial Light Industrial Other Auto Repair Shop
 Dormitory Hospital Motel

Payment Method

CHECK PAYABLE TO: Customer
 Vendor/Installer

Fill in data below

TAX ID# _____ COMPANY TYPE: Check one: Incorporated, Not Incorporated, Exempt

Vendor Information

VENDOR/INSTALLER _____ STREET ADDRESS _____

CONTACT PERSON _____ CITY _____ STATE _____ ZIP _____

PHONE NUMBER _____ E-MAIL _____

Customer Acknowledgement

Pre-Installation — I certify that all statements made in this application are correct to the best of my knowledge and that I have read and agree to the Terms and Conditions on the back of this form.

ANTICIPATED COMPLETION DATE: _____

AUTHORIZED SIGNATURE [Signature] NAME (print) William Guertin DATE 6-5-12

Post-Installation — I certify that I have seen the Energy Efficiency Measures that have been installed and I am satisfied with their installation.

AUTHORIZED SIGNATURE [Signature] NAME (print) William Guertin DATE 8-1-12

For Program Administrators Only

Required Inspections	Date	Inspector	Project Costs:
Pre-Inspection:			
Post Inspection:			Labor \$:
Approval	Date	Program Manager	
Pre-approved Incentive:			Material \$:
Final Incentive:			

RETROFIT

2011 Lighting – Systems & Controls

Customer Information			
COMPANY NAME	North Main Auto/Hopkin's Brothers	APPLICATION DATE	6-1-12
INSTALLATION SITE		PHONE NUMBER	401-568-4463
CONTACT PERSON	Herbie Hopkins	FAX NUMBER	
E-MAIL ADDRESS		SQ. FT. (covered by this application)	
STREET ADDRESS	6 Hill Rd, Harrisville RI 02830	CITY	STATE ZIP
MAILING ADDRESS (if different)		CITY	STATE ZIP
ELECTRIC COMPANY NAME	Pascoag Utility District	ELECTRIC ACCOUNT # (or copy of electric bill)	9445-7370
GAS COMPANY NAME		GAS ACCOUNT # (or copy of gas bill)	
BUILDING TYPE: (select one) TOTAL FACILITY SQ. FT. _____			
<input type="checkbox"/> Assembly	<input type="checkbox"/> Fast Food	<input type="checkbox"/> Hotel	<input type="checkbox"/> Multi Story Retail
<input type="checkbox"/> Automobile	<input type="checkbox"/> Full Service Restaurant	<input type="checkbox"/> Large Refrigerated Space	<input type="checkbox"/> Multifamily high-rise
<input type="checkbox"/> Big Box	<input type="checkbox"/> Grocery	<input type="checkbox"/> Large Office	<input type="checkbox"/> Multifamily low-rise
<input type="checkbox"/> Community College	<input type="checkbox"/> Heavy Industrial	<input type="checkbox"/> Light Industrial	<input type="checkbox"/> Small Office
<input type="checkbox"/> Dormitory	<input type="checkbox"/> Hospital	<input type="checkbox"/> Motel	<input checked="" type="checkbox"/> Other <u>Auto Repair Shop</u>
<input type="checkbox"/> Religious	<input type="checkbox"/> K-12 Schools	<input type="checkbox"/> Small Retail	<input type="checkbox"/> University
<input type="checkbox"/> Warehouse			

Payment Method	
CHECK PAYABLE TO:	<input checked="" type="checkbox"/> Customer Fill in data below <input type="checkbox"/> Vendor/Installer
TAX ID#	COMPANY TYPE: Check one: <input type="radio"/> Incorporated, <input type="radio"/> Not Incorporated, <input checked="" type="radio"/> Exempt

Vendor Information			
VENDOR/INSTALLER	Robert Lombardi	STREET ADDRESS	1796 Round Top Rd
CONTACT PERSON	Robert Lombardi	CITY	Harrisville STATE RI ZIP 02830
PHONE NUMBER	401-640-0607	E-MAIL	

Customer Acknowledgement	
<p>Pre-Installation — I certify that all statements made in this application are correct to the best of my knowledge and that I have read and agree to the Terms and Conditions on the back of this form.</p>	<p>ANTICIPATED COMPLETION DATE: _____</p>
AUTHORIZED SIGNATURE _____	NAME (print) _____ DATE _____
<p>Post-Installation — I certify that I have seen the Energy Efficiency Measures that have been installed and I am satisfied with their installation.</p>	
AUTHORIZED SIGNATURE _____	NAME (print) _____ DATE _____

For Program Administrators Only			
Required Inspections	Date	Inspector	Project Costs:
Pre-Inspection:			Labor \$:
Post Inspection:			
Approval	Date	Program Manager	Material \$:
Pre-approved Incentive:			
Final Incentive:			



Graybar-Taunton Regional Zone
 305 John Hancock Road
 Taunton MA 02780 USA



Phone: 508-821-3838
 Fax:

Scheduled Ship Date: 05-11-2012
 Date Ordered: 05-11-2012
 Ref. Doc#: 0339097548

Customer: PRRIINST HOPKINS AUTO GARAGE

Date: 05-11-2012

Packing List

Customer PO : CREDIT CARD

Tracking # : NONE

Ship To:
 HOPKINS AUTO GARAGE
 ATTN: BOB 401-640-0607
 ATTN: BOB 401-640-0607
 6 HILL RD
 BURRILLVILLE RI 02830

Bill To:
 HOPKINS AUTO GARAGE
 6 HILL RD
 BURRILLVILLE RI 02830

8-Retro \$ 662.55
 4-New \$ 220.90
 \$883.45

Delivery # 0850458305

Signed _____

Print name _____

Route: GRAYBAR TRUCK - ANYTIME

Part and Description	Q u a n t i t y		Backordered	Other Shipments
	Ordered	Shipped		
LTH IBZT5 4L I-REAM IND 4LMP T5 FLUOR HIGH BAY	12 EA	12 EA		
Unit Price:		129.00/	1 EA	\$Amt: 1548.00
Mat#:		25282160		
GEN F54W/T5/835/ECO LAMP FLUOR T5 HO ECO 3500K 54W	48 EA	48 EA		
Unit Price:		0.00/	1 EA	\$Amt: 0.00
Mat#:		25012085		

Terms of Payment Pay In Advance As a condition of the sales agreement, a monthly service charge of the lesser of 1-1/2% or the maximum permitted by law may be added to all accounts not paid by net due date. Visa, MasterCard, American Express, and Discover credit cards are accepted at point of purchase only.	Sub Total:	1548.00
	Freight & Handling:	0.00 *
	Tax:	108.36
	Total Due:	1656.36
	Cash Discount(if paid within terms):	0.00
	Credit Card: AMEX ending in 1006	
*If applicable, freight & handling may be added to the final invoice		

TOTAL NUMBER OF: _____ Boxes _____ Pieces _____ Bundles _____ Coils _____ Reels _____ Pallets

THIS SHIPMENT

Table 1C: Retrofit Lighting Systems Inventory Worksheet

Building and Room Identification (Installation Site): _____

Line Item	Location	Existing/Proposed	Measure Code (Table 1A)	Device Code	Watts per Fixture (Watts per Device)	Annual Hours of Operation*	Minimum Watts Saved	kWh Savings	Device Quantity (a)	Unit Cost	Total Incentive \$ (a) x (b)
Ex	Room 202 first floor	Existing		2F40SFF	90				8		
		Proposed	17	2F37EE	53	3100	37		8	\$75	\$210
56	Existing Garage	Existing	T-12		257				8	\$1037.60	\$622.56
		Proposed	T-5	4 Lamp	234				1		
56	New Addition	Existing							4	\$18.80	\$220.80
		Proposed									
		Existing									
		Proposed									
		Existing									
		Proposed									
		Existing									
		Proposed									
		Existing									
		Proposed									
		Existing									
		Proposed									
		Existing									
		Proposed									
Total Requested Incentive (this page) \$											843.41

* Facility lighting must average a minimum of 2,000 hours per year, except for Municipal Facilities who must contact their Program Administrator for more information on eligibility requirements.

EXISTING LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
Eight Foot T12HO Systems (cont.)		
2F96HSS	2L8' HO/STD/STD	257
3F96HES	3L8' HO/EE/STD	352
3F96HSS	3L8' HO/STD/STD	392
4F96HEE	4L8' HO/EE/ELIG	340
4F96HEM	4L8' HO/EE/EEMAG	414
4F96HES	4L8' HO/EE/STD	454
4F96HSE	4L8' HO/STD/ELIG	390
4F96HSM	4L8' HO/STD/EEMAG	474
4F96HSS	4L8' HO/STD/STD	514

Eight Foot T12VHO Systems		
1F96VES	1L8' VHO/EE/STD	200
1F96VSS	1L8' VHO/STD/STD	230
2F96VES	2L8' VHO/EE/STD	390
2F96VSS	2L8' VHO/STD/STD	450
3F96VES	3L8' VHO/EE/STD	590
3F96VSS	3L8' VHO/STD/STD	680
4F96VES	4L8' VHO/EE/STD	780
4F96VSS	4L8' VHO/STD/STD	900

Eight Foot T8 Systems		
1F59SSE	1L8' T8/ELIG	60
1F80SSE	1L8' T8 HO/ELIG	85
2F59SSE	2L8' T8/ELIG	109
2F59SSL	2L8' T8/ELIG LOW PWR	100
2F80SSE	2L8' T8 HO/ELIG	160

Eight Foot T12 Systems		
1F96SEE	1L8' EE/ELIG	60
1F96SES	1L8' EE/STD	83
1F96SSE	1L8' STD/ELIG	70
1F96SSS	1L8' STD/STD	100
2F96SEE	2L8' EE/ELIG	109
2F96SEM	2L8' EE/EEMAG	123
2F96SES	2L8' EE/STD	138
2F96SSE	2L8' STD/ELIG	134
2F96SSM	2L8' STD/EEMAG	158
2F96SSS	2L8' STD/STD	173
3F96SES	3L8' EE/STD	221
3F96SSS	3L8' STD/STD	273
4F96SEE	4L8' EE/ELIG	218
4F96SEM	4L8' EE/EEMAG	246
4F96SES	4L8' EE/STD	276
4F96SSE	4L8' STD/ELIG	268
4F96SSM	4L8' STD/EEMAG	316
4F96SSS	4L8' STD/STD	346

PROPOSED LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
LED Exit Signs		
1E0002	2.0 WATT LED	2
1E0003	3.0 WATT LED	3
1E0005	5.0 WLED	5
1E0005C	0.5 WATT LEC	0.5
1E0008	8.0 WLED	8
1E0015	1.5 WATT LED	1.5
1E0105	10.5 WATT LED	10.5

Compact Fluorescents (CFL's)		
2C0007S	2/7W COMPACT HW	18
1C0005S	5W COMPACT HW	7
1C0007S	7W COMPACT HW	9
1C0009S	9W COMPACT HW	11
1C0011S	11W COMPACT HW	13
1C0013S	13W COMPACT HW	15
1C0018E	18W COMPACT HW ELIG	20
1C0018S	18W COMPACT HW	20
1C0022S	22W COMPACT HW	24
1C0023E	1/23W COMPACT HW ELIG	25
1C0026E	26W COMPACT HW ELIG	28
1C0026S	26W COMPACT HW	28
1C0028S	28W COMPACT HW	30
1C0032E	32W COMPACT HW ELIG	34
1C0032S	32W CIRCLINE HW	34
1C0042E	1/42W COMPACT HW ELIG	48
1C0044S	44W CIRCLINE HW	46
1C0057E	1/57W COMPACT HW ELIG	65
1C2232S	22/32W CIRCLINE HW	58
1C2D10E	10W 2D COMPACT HW ELIG	12
1C2D16E	16W 2D COMPACT HW ELIG	18
1C2D21E	21W 2D COMPACT HW ELIG	22
1C2D28E	28W 2D COMPACT HW ELIG	28
1C2D38E	38W 2D COMPHW ELIG	36
1C3240S	32/40W CIRCLINE HW	80
2C0005S	2/5W COMPACT HW	14
2C0009S	2/9W COMPACT HW	22
2C0011S	2/11W COMPACT HW	26
2C0013E	2/13W COMPACT HW ELIG	28
2C0013S	2/13W COMPACT HW	30
2C0018E	2/18W COMP. HW ELIG	40
2C0026E	2/26W COMP. HW ELIG	54
2C0032E	2/32W COMPACT HW ELIG	68
2C0042E	2/42W COMPACT HW ELIG	100
3C0009S	3/9W COMPACT HW	33
3C0013S	3/13W COMPACT HW	45
3C0018E	3/18W COMPACT HW ELIG	60
3C0026E	3/26W COMPACT HW ELIG	82
3C0032E	3/32W COMPACT HW ELIG	114
3C0042E	3/42W COMPACT HW ELIG	141
4C0018E	4/18W COMPACT HW ELIG	80
4C0026E	4/26W COMPACT HW ELIG	108
4C0032E	4/32W COMPACT HW ELIG	152
4C0042E	4/42W COMPACT HW ELIG	188
6C0026E	6/26W COMPACT HW ELIG	162
6C0032E	6/32W COMPACT HW ELIG	228

PROPOSED LIGHTING SYSTEMS		
Device Code	Device Description	Rated Watts
Compact Fluorescents (CFL's) (cont)		
6C0042E	6/42W COMPACT HW ELIG	282
8C0026E	8/26W COMPACT HW ELIG	216
8C0032E	8/32W COMPACT HW ELIG	304
8C0042E	8/42W COMPACT HW ELIG	376

T5 Systems		
1F21SSE	1L3' 21W T5/ELIG	24
1F28SSE	1L4' 28W T5/ELIG	32
1F39HSE	1L3' 39W T5HO/ELIG	42
1F54HSE	1L4' 54W T5HO/ELIG	59
1F14SSE	1L2' 14W T5/ELIG	16
2F14SSE	2L2' 14W T5/ELIG	32
1F24HSE	1L2' 24W T5HO/ELIG	29
2F24HSE	2L2' 24W T5HO/ELIG	52
3F24HSE	3L4' T5HO/ELIG	80
2F21SSE	2L3' 21W T5/ELIG	47
2F28SSE	2L4' 28W T5/ELIG	63
2F39HSE	2L3' 39W T5HO/ELIG	85
2F54HSE	2L4' 54W T5HO/ELIG	117
3F54HSE	3L4' 54W T5HO/ELIG	177
4F54HSE	4L4' 54W T5HO/ELIG	234
5F54HSE	5L4' 54W T5HO/ELIG	294
6F54HSE	6L4' 54W T5HO/ELIG	351
8F54HSE	8L4' 54W T5HO/ELIG	468
10F54HSE	10L4' 54W T5HO/ELIG	585

Two Foot High Efficient T8 Systems		
1F17ESL	1L2' 17W T8EE/ELEE LOW PWR	14
1F17ESN	1L2' 17W T8EE/ELEE	17
1F17ESH	1L2' 17W T8EE/ELEE HIGH PWR	20
1F28BXE	1L2' F28BX/ELIG	32
2F17ESL	2L2' 17W T8EE/ELEE LOW PWR	27
2F17ESN	2L2' 17W T8EE/ELEE	32
2F17ESH	2L2' 17W T8EE/ELEE HIGH PWR	40
2F28BXE	2L2' F28BX/ELIG	63
3F17ESL	3L2' 17W T8EE/ELEE LOW PWR	39
3F17ESN	3L2' 17W T8EE/ELEE	46
3F17ESH	3L2' 17W T8EE/ELEE HIGH PWR	61
3F28BXE	3L2' F28BX/ELIG	94

Three Foot High Efficient T8 Systems		
1F25ESL	1L3' 25W T8EE/ELEE LOW PWR	21
1F25ESN	1L3' 25W T8EE/ELEE	24
1F25ESH	1L3' 25W T8EE/ELEE HIGH PWR	30
2F25ESL	2L3' 25W T8EE/ELEE LOW PWR	40
2F25ESN	2L3' 25W T8EE/ELEE	45
2F25ESH	2L3' 25W T8EE/ELEE HIGH PWR	60
3F25ESL	3L3' 25W T8EE/ELEE LOW PWR	58
3F25ESN	3L3' 25W T8EE/ELEE	67
3F25ESH	3L3' 25W T8EE/ELEE HIGH PWR	90

Four Foot T8 High Efficient / Reduce Wattage Systems		
1F25EEH	1L4' 25W T8EE/ELEE HIGH PWR	30
1F25EEE	1L4' 25W T8EE/ELEE	22
1F25EEL	1L4' 25W T8EE/ELEE LOW PWR	19
2F25EEH	2L4' 25W T8EE/ELEE HIGH PWR	57



Graybar-Taunton Regional Zone

305 John Hancock Road
Taunton MA 02780 USA



Phone: 508-821-3838
Fax:

Scheduled Ship Date:05-11-2012
Date Ordered:05-11-2012
Ref. Doc#:0339097548

Customer :PRRIINST HOPKINS AUTO GARAGE

Date: 05-11-2012

Packing List

Customer PO : CREDIT CARD

Tracking # : NONE

Ship To:
HOPKINS AUTO GARAGE
ATTN: BOB 401-640-0607
ATTN: BOB 401-640-0607
6 HILL RD
BURRILLVILLE RI 02830

Bill To:
HOPKINS AUTO GARAGE
6 HILL RD
BURRILLVILLE RI 02830

Delivery # 0850458305

Signed _____

Print name _____

Route:GRAYBAR TRUCK - ANYTIME

Table with 4 columns: Part and Description, Quantity Ordered, Quantity Shipped, and Other Shipments. Includes rows for LTH IBZT5 4L and GEN F54W/T5/835/ECO LAMP FLUOR T5 HO ECO 3500K 54W.

Summary table with 2 columns: Description and Amount. Includes Sub Total (1548.00), Freight & Handling (0.00), Tax (108.36), Total Due (1656.36), and Cash Discount (0.00).

TOTAL NUMBER OF: _____ Boxes _____ Pieces _____ Bundles _____ Coils _____ Reels _____ Pallets
IN THIS SHIPMENT

Hopkins Brothers Retrofit Lighting Project

	wattage per fixture				
Existing fixtures	T-12	257			
Proposed	T5	234			
		<u>23</u>	X 12 fixtures =	276	x 2600 run hours hrs per year
				717600	/1000
					717.6 kWh savings per year
					\$96.29 Savings per year

PASCOAG UTILITY DISTRICT
ELECTRIC DEPARTMENT
VENDOR # 283 HOPKINS BROTHERS

CHECK # 420461

INVOICE #	DESCRIPTION	DATE	AMOUNT
LGHT PRJ	9445-7370	08/02/2012	883.45

883.45

PASCOAG UTILITY DISTRICT
ELECTRIC DEPARTMENT
P.O. BOX 107
PASCOAG, RI 02859

FREEDOM BANK
GREENVILLE OFFICE
GREENVILLE, RI

420461

DATE	CHECK NUMBER	AMOUNT
08/14/2012	420461	\$*****883.45

EIGHT HUNDRED EIGHTY THREE AND 45/100 DOLLARS *****

NOT VALID AFTER 90 DAYS

PAY TO THE ORDER OF
HOPKINS BROTHERS
6 HILL ROAD
HARRISVILLE RI 02830

Helen F. Moroney MP

⑈420461⑈ ⑆011501705⑆ 0000101966⑈

