





SB-924 Energy Efficiency Report:

# Energy Efficiency and Conservation Programs and Measures

04/01/2015

## **BPUB GreenLiving Rebate Program**



The BPUB GreenLiving Program is a comprehensive residential and small business rebate program geared to incentivize BPUB Electric Customers for their energy efficiency and water conservation efforts. The Greenliving Rebate Program provides incentives for the following:

- Heating, Ventilation, and Air Conditioning (HVAC);
- Duct Flow Performance;
- Solar Screens and Films;
- ENERGY STAR Windows;
- Radiant Barrier;
- WaterSense High Efficiency Toilets;
- Attic/ Ceiling Insulation

Benefits of the BPUB GreenLiving Rebate Program Include:

- Incentivize BPUB customers for green initiatives and efforts.
- Reduce monthly customer energy consumption.
- Reduce potential and/or existing customer's overall monthly bill.
- Provide ENERGY STAR® rated appliance awareness to the community.
- Reduce environmental emissions.
- Promote energy efficiency and conservation to BPUB's residential and small business customers.
- Reduce BPUB's peak load.

The program began October 1, 2011 and during fiscal year 2013, BPUB had 145 participants and has given back over \$58,000 back to the community in the form of rebates.

<b><u>FY</u></b>	<b><u>Amount Rebated</u></b>	<b><u>Total Customers</u></b>
2013	\$58,307.00	145
2014	\$146,822	264
2015 est.	\$200,000	300

## Earth Day and “Change a Light, Change the World” CFL Promotion

Scope: BPUB has partnered with H.E.B. to promote energy conservation measures by offering discount coupons on GTC 13 Watt Ultra Mini CFL in earth friendly boxes available at all Brownsville HEB stores.

### Goal:

- Reduce monthly customer energy consumption;
- Reduce potential and/or existing customer’s overall monthly bill;
- Provide ENERGY STAR® rated appliance awareness to the community;
- Reduce environmental emissions;
- Promote energy efficiency and conservation to BPUB’s residential and small business customers; and
- Reduce BPUB’s peak load

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GOOD 10/12/11 THRU 10/18/11

**GIVE HOPE**  
H.E.B. donates over one million dollars annually to cancer research. We are proud to support our local communities in the fight to cure breast cancer.

**FREE!**  
**GTC CFL 14 Watt**  
**Daylight Lightbulb,**  
 single pack,  
 While supplies last.

  
**BROWNSVILLE**  
**PUBLIC UTILITIES BOARD**

• Limit One Coupon Per Purchase Of Product Indicated  
 • Coupon May Not Be Mechanically Reproduced,  
 Doubled Or Combined With Any Other Offer

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Good Only At:  
  


5 41220175301 2

©2011 H-E-B Food Stores, CS

**EARTH DAY**

**Help Brownsville PUB**  
**Celebrate Earth Day**

At HEB on FM 802 & Paredes Line Rd.  
 Wed., April 22 • 2pm - 6pm  
 Sat., April 25 • 9am - 1pm

**GIVEAWAYS & PRESENTATIONS**

**Discount Coupons\***  
 GTC 13 Watt Ultra Mini CFL  
 in earth friendly box (Available at all Brownsville HEB stores)

**Presentations and Information**  
 Energy and water conservation. Great tips that will save you money!

**LEO THE LINEMAN**

**Gifts for Kids**  
 Leo the Lineman will be giving out activity books, stickers and more!

**GTC 13 Watt Ultra Mini CFL in earth friendly box**

- Save up to \$47 in energy costs
- Reduce 420 lbs of carbon dioxide pollution
- One bulb lasts up to 9 years
- If every household in the US used one CFL light bulb it would be equal to taking 800,000 cars off US roadways

  
**BROWNSVILLE**  
**PUBLIC UTILITIES BOARD**

1425 Rubenhood Drive / P.O. Box 3270  
 Brownsville, Texas 78523-3270  
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\*Available at 42209 and 42509 only. ©2011 HEB Inc.

Results: Approximately 100,000 13-watt GTC CFL lamps have been given out to the community since 2009. If each CFL replaced one incandescent lamp of equivalent luminosity, at standard operation, there is a reduction of approximately 4,425,979 kWh to date.

## **Apogee Interactive Public Online Resource:**

### Interactive Energy Home

This online interactive tool is designed to help customers understand where and how energy is used in the home, and how to use it wisely. The user takes a few minutes to wander through an interactive house and learn how our home's systems use energy and identify the best opportunities for savings and home improvements. The different components of a home include: insulation, windows and doors, outdoor lighting, HVAC and water heating, pool and spa, living room, kitchen, and home office. Within each component lies further detail on energy conservation measures relative to that specific component. For example, information on circuits and surge protection as well as lighting design and television energy efficient measures can be found under the "living room" component of the interactive home on display.

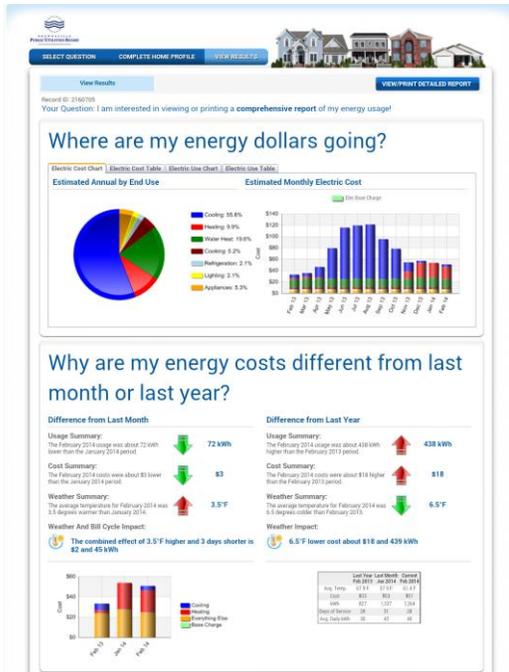
### Home and Commercial Energy Library

Brownsville Public Utilities Board's home and commercial energy library covers it all – home design and construction techniques to the latest in energy-efficiency equipment and appliances – including thousands of pages of information in a format designed to make the information interesting and easily accessible. The home energy systems tab provides an extensive library with tons of information about how energy is used in your home, while the fundamentals of electricity offers the basic electricity fundamentals and how the electric utility industry generates and delivers power to its customers.

### Kids Korner

This colorful, interactive information website contains games that capture the imagination of young and old alike! In addition to games, the online resource offers users a coloring book feature, quiz show, and experiments that promote energy efficiency measures. Subsequently, the resource offers a glossary and a "teaching feature" that contains different material for kids in kinder garden through 1<sup>st</sup> grade.

**Goal:** The goal of having online educational resources is to provide interactive data and information on energy efficiency and water conservation to anyone with internet access. In addition to energy efficiency and water conservation tools and information, we provide information on electricity and the electric industry for all ages.



Save Energy Costs  
Help Brownsville's Environment

## Go Green with Brownsville PUB

Visit [www.brownsville-pub.com](http://www.brownsville-pub.com)

Then click on Go Green. One visit to our website can save you money and really put you in touch with your electric and water use. You will also learn how to take simple actions to help you save money and help our beautiful city.

Brownsville PUB's Go Green web page is an online self-help resource for our residential and commercial customers

Features include:

- Home Energy Status:** You can learn about where and how you use energy in your home and get a quick estimate of your home's energy costs by using information from your BPUB account. You can also see how much you can save by making a few changes.
- Commercial Energy Status:** You can get quick detailed estimates of energy use costs for your business facility. You can also compare your facility to other businesses like yours.
- Kids' Corner:** Kids can learn about energy conservation and electrical safety. There are games and puzzles that kids can use to learn about electricity.

It's just a click away. It's a great investment, well worth a little bit of computer time.

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Go green

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## ENERGY STAR for New Homes Program (effective Oct. 1, 2011)-



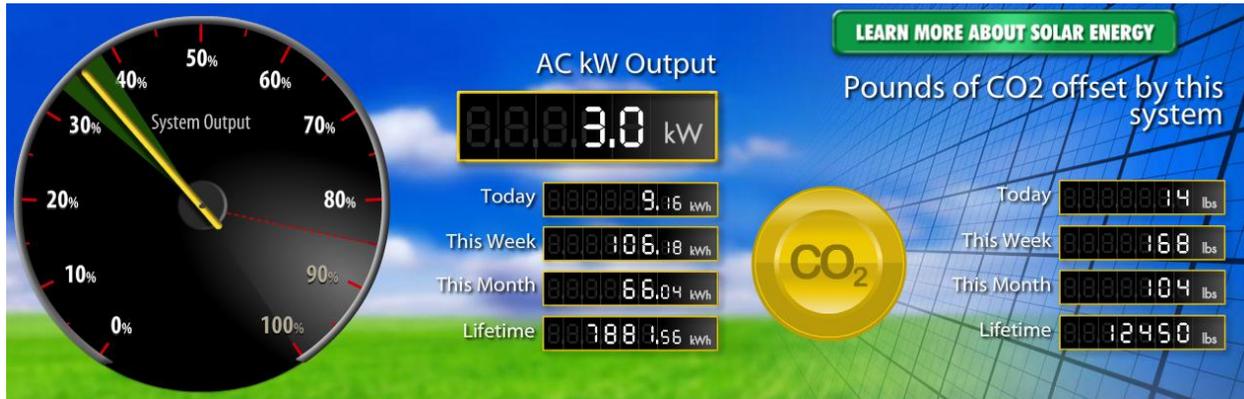
The 2011 Brownsville Public Utilities Board ENERGY STAR for New Homes Program will incentivize developers and home builders that submit certification of the construction of new ENERGY STAR qualified homes in the BPUB electric service area.

To earn the ENERGY STAR, a home must meet strict guidelines for energy efficiency set by the U.S. Environmental Protection Agency. These homes are at least 15% more energy efficient than homes built to the 2004 International Residential Code (IRC), and include additional energy-saving features that typically make them 20–30% more efficient than standard homes. Homes achieve this level of performance through a combination of energy-efficient improvements, including:

- Effective Insulation Systems
- High-Performance Windows
- Tight Construction and Ducts
- Efficient Heating and Cooling Equipment
- ENERGY STAR Qualified Lighting and Appliances

In FY 2014, 47 ENERGY STAR certified homes have been built in BPUB electric service territory. Over \$30,550 has been given back to homebuilders in the form of rebates this past FY.

## **BPUB Hybrid Renewable Energy Project**



In March 2013, BPUB installed a 5kW solar panel array and a 4.2 kW wind turbine to serve as an educational tool for our 45,000 electric customers and 500 employees. In addition to being an educational tool, this project is intended to promote renewable technologies and to serve as a case study to any customer or entity interested in renewable technologies. The selected site is within feet of an elementary and middle school and on BPUB's administration building grounds, which is visible to the community and all BPUB customers.

To date the system has offset 12,450 lbs of CO2 and has generated over 7,800 kWh.

## **Robindale Waste Water Rehabilitation and Expansion Project** (completed FY 2014)-

The Brownsville Public Utilities Board in the process of expanding and rehabilitating its Robindale Waste Water Treatment plant. The facility will be expanded from 10 million gallon per day capacity to 14.5 million gallons per day.

Included within the scope of work are the recommendations made by the State Energy Conservation Office's recommendation per the 2006 Local Governments Energy Management Program Report. Such improvements include:

- Replacement of fine bubble diffusers with more efficient model
- Installation of D.O. Monitoring Equipment for operation control
- Installation of efficient grit removal equipment
- Installation of 2M gravity belt thickener to increase sludge solids

## **BPUB Electric Vehicle Pilot Project**

BPUB acknowledges the importance of energy conservation and the reduction of burning of fossil fuels. To further promote BPUB's dedication to energy conservation, BPUB has incorporation of two all electric Nissan LEAFs by BPUB meter readers. In addition to reducing the use of fossil fuels, incorporating EVs will position BPUB as a leader in clean energy in South Texas.



## **BPUB GreenWorking Program**



On October 1, 2014, BPUB launched the GreenWorking Rebate Program. The GreenWorking is a commercial rebate program available for all of BPUB's electric commercial customers.

The GreenWorking Program includes:

- HVAC
- Retrofit Lighting
- New Construction Lighting
- ENERGY STAR Windows
- WaterSense Toilets/ Urinals
- Solar Screens

