



MEMORANDUM

To: Mayor and City Councilors

From: Rich Olson, City Manager
Dennis Gordon, Energy Officer
Ricky Albertson, Load Management Specialist

Date: May 22, 2013

Re: Update –Energy Efficiency Commission Recommendations Progress

BACKGROUND:

One of the provisions included in the Mayor's Energy Efficiency Commission recommendations is that City staff is to provide a report of the dwellings weatherized and other significant accomplishments in the area of energy conservation three times per year in January, May and September. The last update provided to the Council was January 24, 2013.

ANALYSIS:

For Fiscal Year 2012-2013, the City Council appropriated \$160,000 for the City's Weatherization Program to retrofit homes. To date, \$102,573.72 has been spent. We do anticipate expending the entire \$160,000 before the end of this fiscal year. In addition, the Council provided \$20,000 for the high efficiency Heat Pump Rebate Program. There have been no permits issued for this type of work to individual homeowners; therefore, no funds have been used. Finally, \$5,000 was provided for our Attic Insulation Rebate Program; and to date, \$3,000 has been spent. All these programs are designed to increase the energy efficiency of the City's housing stock and assist our citizens in managing their energy costs.

The following information is provided to detail progress made since the January report was provided to Council.

1. Energy Efficiency Rating

In staff's January update to the Council, we reported that a query-based solution had been developed for the City's website where a citizen could request an energy efficiency rating on their home. This website page went "live" on February 1, 2013. To date, staff has received and responded to 22 requests from citizens.

2. Salvation Army Utility Bill Assistance Distribution

In February, the City provided \$11,918.10 to the Salvation Army for distribution to customers for utility bill assistance. (\$10,000 of this amount was from the City and \$1,918.10 was provided by our customers.) As required by the Energy Efficiency Commission's recommendation, customers were required to attend an educational seminar to help them be better consumers of electricity in order to receive assistance. Also new to the program this year, each customer provided assistance received no more than \$300 as a utility account payment. Dennis Gordon conducted four (4) educational seminars during which 45 persons received instruction on energy efficiency. All assistance funding has been expended.

3. Weatherization Statistics

Since January 2013, Energy Officer Dennis Gordon has had requests for a total of 117 energy audit appointments. From these requests, Mr. Gordon completed 84 home energy audits. (Unfortunately, 33 residents were a "no show" for their appointment or the landlord denied access.)

To date this fiscal year, we have completed weatherization of 38 homes. We have completed 14 homes since January 2013; and currently have 12 additional homes in various stages of completion. The average cost per home is \$3,152 of which \$1,174 is for materials and \$1,978 is for labor.

Weatherization measures consistently performed on each unit are comprised of the following:

1. Air sealing the entire attic space to include top plates on interior and exterior walls, chases and bypasses.
2. Installing R38 insulation to the entire attic space.
3. Air sealing the attic hatches or dropdown stairs to attic space and ensuring R38 or higher R-value is achieved at the covers.
4. Air sealing penetrations in the conditioned space.
5. Air sealing penetrations in crawlspace sub-floors.
6. Installing R19 insulation to sub-floor areas, when applicable.
7. Installing moisture barriers, when applicable.
8. Installing carbon monoxide detectors, when applicable.

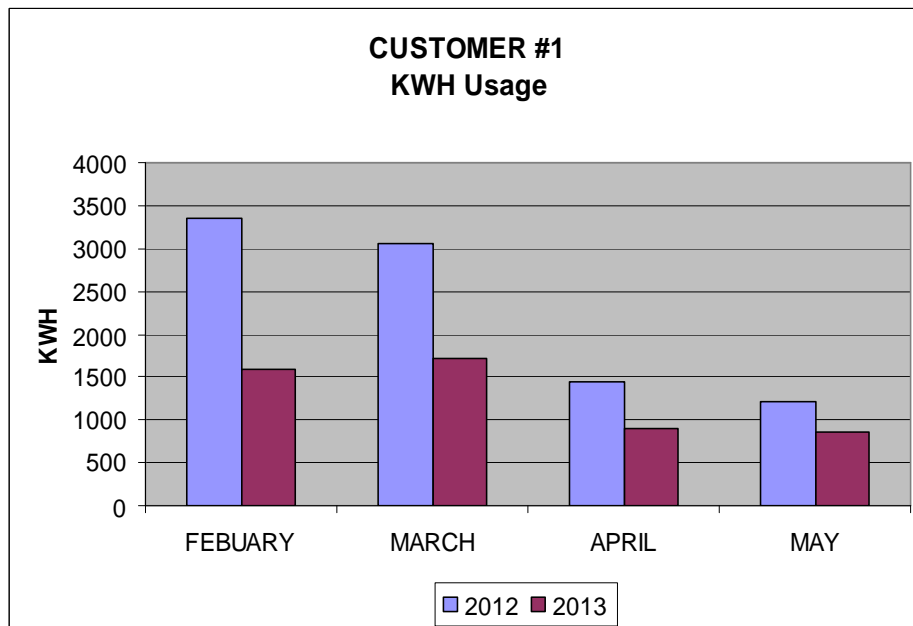
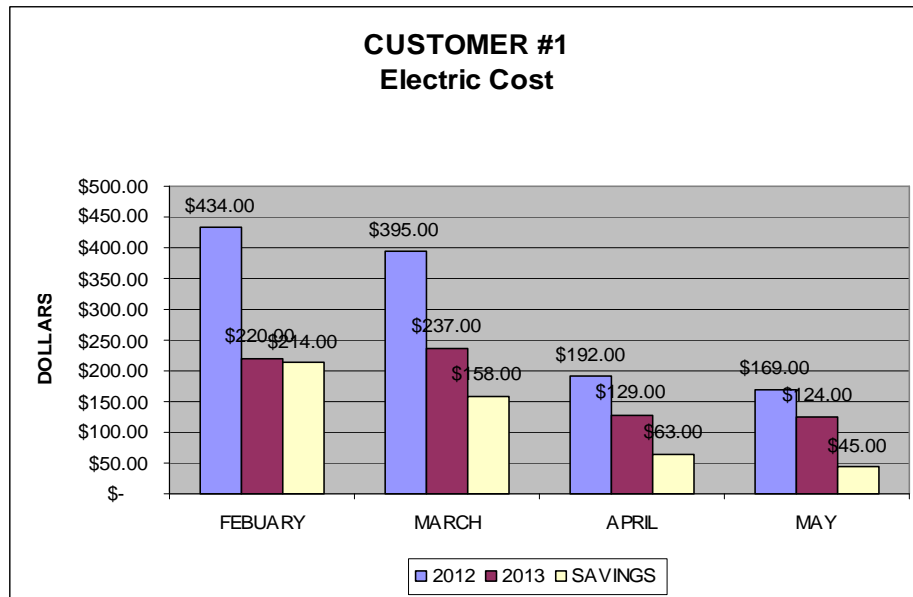
Mr. Gordon had to reject 13 requests for home weatherization because they were beyond the scope of the program.

Note: As of January 2013, income guidelines are not a requirement for weatherization eligibility.

EXAMPLES OF CUSTOMER IMPACT FROM WEATHERIZATION:

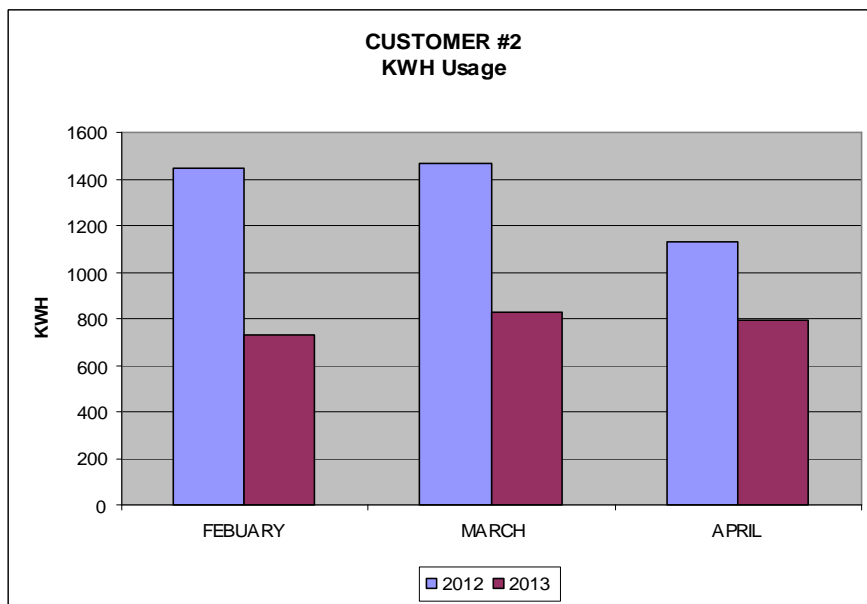
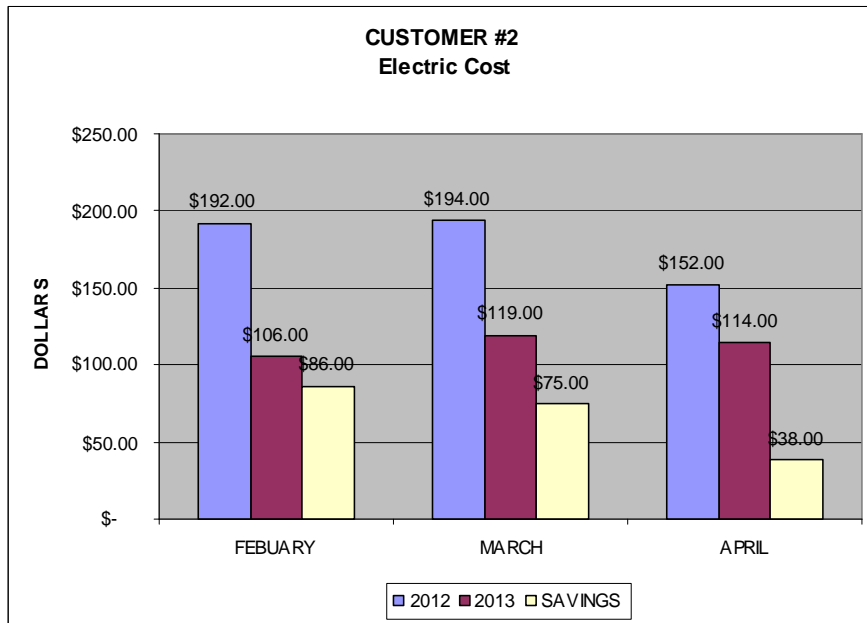
Actual Customer - #1

- Weatherization completed in January 2013. Weatherization costs - \$2,763
- Since weatherization was completed, this customer has saved \$480 or 37% on electric costs.



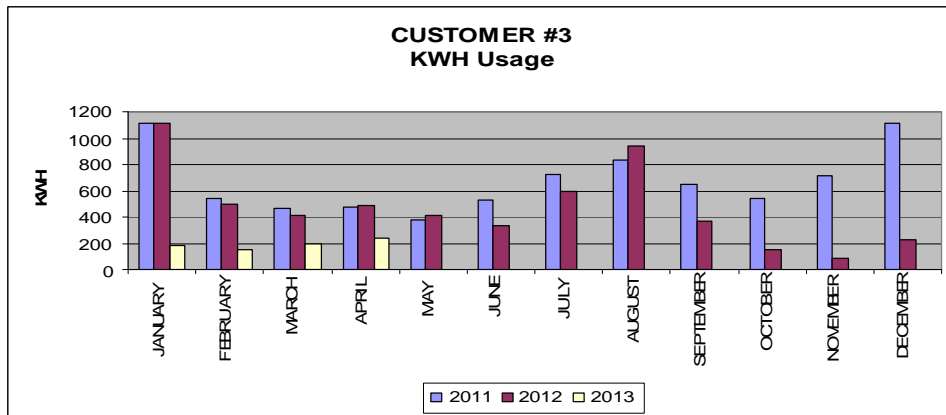
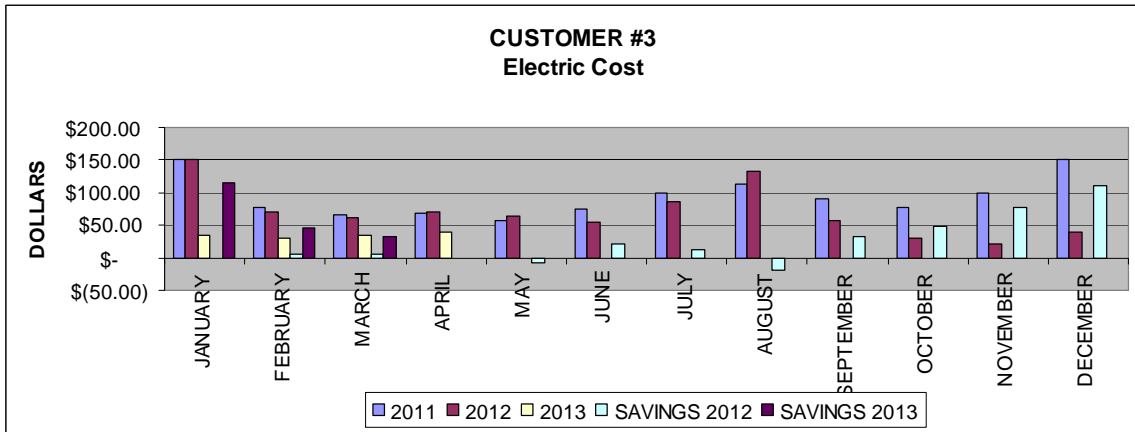
Actual Customer - #2

- Weatherization completed in January 2013. Weatherization costs - \$2,666
- Since weatherization was completed, this customer has saved \$199 or 36% on electric cost.



Actual Customer - #3

- Weatherization completed in January 2012. Weatherization costs - \$5459
- Since weatherization was completed, this customer has saved \$485 or 44% on electric costs.



Note: Not all customers are seeing this much reduction in usage, but other factors may have an influence. More time and data will be needed to fully assess this program.

Location of Homes Weatherized

The map on the following page indicates the location of the homes that have been weatherized since 2011 as well as those that are now pending.

Weatherization Program

Legend

Year Completed

- Pending
- 2012
- 2013
- 2011

— centerlines

■ CityLimits

