

RENEWABLE ENERGY PLAN

During 2013, the HBPW took the following actions to meet the REP standards:

- Renewable energy credits were acquired through power purchase agreements with Wildcat Windfarm (wind power), CMS-Grayling (biomass), North American Natural Resources (landfill gas) and Granger (landfill gas).
- Holland BPW secured a 10-year Power Purchase Agreement with Wildcat 1 Windfarm, LLC located in Elmwood, IN. HBPW started receiving credits for this power source in January 2013, earning 41,752 Renewable Energy Credits for 2013.
- HBPW acquired 38,532 megawatt hours (MWh) of electricity generated from landfill gas, 12,238 MWh from biomass, and 41,753 MWh from wind power for a total of 92,523 MWh of renewable energy during the 2013 calendar year. This made HBPW's renewable energy 8.95 percent of total sales.

MICHIGAN RENEWABLE PORTFOLIO STANDARD (RPS)

STATE RE SUPPLY REQUIREMENTS:

2012.....	2%
2013.....	3.3%
2014.....	5%
2015.....	10%

HBPW's YEARLY RE SUPPLY:

2010.....	1.94%
2011.....	4.3%
2012.....	4.2%
2013.....	8%

HBPW's BANKED RE CREDIT PROGRESS:

2010.....	1.94%
2011.....	6.8%
2012.....	11.45%
2013.....	10%*

The incremental cost for compliance for 2013 was \$1,685,617. This is the cost to comply with PA 295 for 2013 and not the total spent on renewable energy, since the HBPW banks renewable energy credits for future use. The anticipated cost of compliance for PA 295 for 2014 is \$2,082,635.

* HBPW has banked active RE credits above the amount needed for the annual PA295 compliance requirement. HBPW sold some credits earned in 2013 that were not needed for current compliance.

COST TO CUSTOMERS

- The 2013 itemized monthly charge to a residential customer for the renewable energy program was \$3.00 per month.
- The 2013 itemized monthly charge to a residential customer for the energy optimization program was \$0.001661 per kilowatt hour.
- The average Michigan electric residential customer is expected to save \$3.21 each month of the Energy Optimization program life.
- For the average Michigan residential customer, renewable energy is estimated to avoid \$3.90 per month of new coal-fired generation costs.
- The Michigan Public Service Commission's annual report on renewable energy can be viewed at the following website:
www.michigan.gov/mpsc



Visit our website at hollandbpw.com to learn about our energy efficiency programs. Follow us on Facebook for energy-saving tips, events and more at [facebook.com/hollandboardofpublicworks](https://www.facebook.com/hollandboardofpublicworks)



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ENERGY OPTIMIZATION & RENEWABLE ENERGY PLAN



2013 ANNUAL SUMMARY REPORT



Holland Board of Public Works

DEAR HOLLAND BPW ELECTRIC CUSTOMER,



Michigan Public Act 295, known as the Clean, Renewable and Efficient Energy Act, calls on all utilities in the state to implement a Renewable Energy Plan and Energy Optimization program for their customers. The Act requires utilities to source a portion of their energy from renewable technologies and to implement programs that help customers improve energy efficiency.

Holland Board of Public Works surpassed its 2013 Renewable Energy Plan and Energy Optimization requirements and goals.

In 2011, the City of Holland adopted a 40-year energy plan. Renewable energy and energy efficiency are just two of the many areas of focus that are making Holland one of the municipal energy leaders in America.

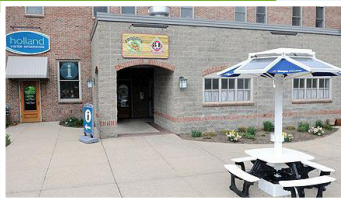
Information about Community Energy Plan initiatives and copies of the complete 2013 annual reports for both the Renewable Energy Plan and Energy Optimization Program are available at our office and on our website: www.hollandbpw.com.

On behalf of the Holland BPW, thank you for your continued efforts to create a first-class, energy efficient community.

Dave D. Koster

Dave Koster,
General Manager

In a special demonstration project, HBPW partnered with Hope College to install a solar-powered picnic table for the Holland community. The solar powered table is completely off the electric grid and has several outlets for charging cell phones, laptops and other electronics. It is currently located behind 84 East on 8th Street.



MORE THAN 10 MILLION KWH SAVED THROUGH EFFICIENCY PROGRAMS...

The equivalent of what 10,000 homes use per year!

Pursuant to 2008 Public Act 295 (PA 295), the Holland Board of Public Works (HBPW) is providing this annual summary on the Energy Optimization (EO) and Renewable Energy Plan (REP) results for the calendar year 2013.

ENERGY OPTIMIZATION

Following are highlights of actions taken to meet the State EO standards:

- Partnering with Ottawa Community Action Agency, Community Action House, Department of Human Services, and Salvation Army, **nearly 600 low income families** received energy efficiency tote bags containing electric saving devices and educational materials. HBPW also partnered with Lakeshore Habitat for Humanity and community organizations to pilot **deep energy efficiency retrofits on four homes**.
- To introduce energy saving light-emitting diode (LED) technology, HBPW distributed over **15,000 free LED night lights and light bulbs** through local hardware stores. Residential customers also received more than **\$50,000 in incentives** for purchasing energy efficient furnaces, air conditioners and appliances and for recycling old or "second" refrigerators and freezers. HBPW gave out 12 rebates and over \$5,000 to customers purchasing ENERGY STAR® certified new homes in a new program aimed at promoting energy efficient residential building techniques. Energy efficiency education was provided through **new informational flyers** available on our website.
- Commercial and industrial customers received incentives for upgrades to high-efficiency electric equipment. **138 projects were completed** with over 9 million kWh saved. HBPW's program for small businesses resulted in **free energy saving measures installed in an additional 107 local businesses**. Energy management education was conducted in workshops, Level 1 energy audits, one-on-one meetings, at community events and through the **Energy Smarts for Businesses** classroom curriculum.

The table below shows the number of energy optimization credits that the HBPW generated in 2013 kWh, the expenditures in 2013 and expected future expenditures for 2015 as required by state law PA 295.

EO KWH SAVINGS

2013 kWh Goal	2013 kWh Saved	2014 kWh Goal
254,520	153,076	269,482
1,267,764	1,260,648	1,342,291
8,298,898	9,520,511	8,786,762

TOTALS

9,821,182 10,934,235 10,398,536

EO EXPENDITURES

2013 Budget	2013 Spent	2014 Budget
\$77,719	\$28,745	\$82,288
\$217,328	\$229,981	\$248,835
\$1,126,435	\$914,976	\$1,229,394
\$61,804	\$61,804	\$67,849
\$61,804	\$29,896	\$67,849

TOTALS

\$1,545,090 \$1,265,403 \$1,696,215

- LOW INCOME
- RESIDENTIAL
- BUSINESS
- ADMINISTRATION
- EVALUATION*

*The HBPW contracted an independent auditor to verify the incremental gross energy savings for each EO program for 2013. KEMA Inc. reported that the HBPW has met the energy savings requirements of PA 295.