

## RENEWABLE ENERGY PLAN (REP)

During 2017, HBPW took the following actions to meet the REP standards:

- Renewable energy (RE) credits were acquired through power purchase agreements with Wildcat Windfarm (wind power), Beebe 1B Windfarm (wind power), North American Natural Resources (landfill gas) and Granger (landfill gas).
- Through the Michigan Public Power Agency, HBPW has entered into a memorandum of understanding to participate in a proposed wind project in Tuscola county for approximately **3.5 MW of capacity**. This project is planned for commercial operation before the end of 2018.
- HBPW acquired 51,658 megawatt hours (MWh) of electricity generated from landfill gas and 100,897 MWh from wind power for a total of **152,555 MWh of renewable energy** during the 2017 calendar year. This resulted in **14.16% of HBPW's total sales** being supplied by renewable energy.

## MICHIGAN RENEWABLE PORTFOLIO STANDARD (RPS)

### STATE RE SUPPLY REQUIREMENTS:

2014.....	5%
2015.....	10%
2016.....	10%
2017.....	10%
2018.....	10%

### HBPW's YEARLY RE SUPPLY:

2012.....	4.2%
2013.....	8%
2014.....	9.5%
2015.....	13.24%
2016.....	12.43%
2017.....	14.16%

### HBPW's BANKED RE CREDIT PROGRESS:

2012.....	11.45%
2013.....	10%
2014.....	14.07%
2015.....	16.28%*
2016.....	12.24%*
2017.....	13.80%



\* HBPW has banked active RE credits above the amount needed for the annual PA295 (amended by PA 342) compliance requirement. HBPW sold some credits earned in 2017 that were not needed for current compliance.

## COST TO CUSTOMERS

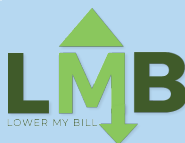
The 2017 itemized monthly charge to a residential customer for the Energy Waste Reduction program (listed as Energy Optimization on your bill) was \$0.001759 per kilowatt hour.



## Holland Energy Fund

Holland Energy Fund is a 501(c)3 nonprofit corporation that finances the **Home Energy Retrofit** and **On-Bill Loan Programs** for city residents in partnership with the City of Holland, Holland Board of Public Works, and Michigan Saves.

Learn more at [HollandEnergyFund.com](http://HollandEnergyFund.com).



Lower My Bill is a FREE home energy check-up. Schedule one today and learn how to save on your utility bills.

Call 616.393.5610

Find us on social media!



@hollandboardofpublicworks



@HBPW\_NEWS



@hollandpw



HOLLAND BOARD OF PUBLIC WORKS

625 Hastings Avenue

Holland, MI 49423

616.355.1500

[www.hollandbpw.com](http://www.hollandbpw.com)



Printed on recycled paper with soy ink. (July 2018)

# ENERGY WASTE REDUCTION & RENEWABLE ENERGY PLAN



# 2017 ANNUAL SUMMARY REPORT



Holland Board of Public Works

Dear Holland BPW Electric Customer,

Your effort to use energy wisely during 2017, both at work and at home, has resulted in your public utility surpassing all state requirements for saving energy and for incorporating renewable energy into how your electricity is generated. This Annual Summary Report highlights how that was achieved.



Michigan Public Act 295 (amended by PA 341 and 342), known as the Clean, Renewable and Efficient Energy Act, calls on all utilities in the state to implement a Renewable Energy Plan and Energy Waste Reduction program for their customers. The Act requires utilities to source at least 10 percent of their energy from renewable technologies and to implement programs that help customers improve energy efficiency.

Holland continues to make significant progress on its 2010-2050 Community Energy Plan. Holland Energy Park is now fully operational, the Visitor Center is open for groups, and a ¾ mile trail around the grounds is paved for your enjoyment.

Also, City homeowners are taking advantage of the new way to pay for home energy improvements with the Holland On-Bill Loan Program offered by Holland Energy Fund. The first in Michigan, this program combines simple qualifying criteria, low fixed interest rates, and the convenience of payment on your HBPW bill.

A copy of the complete 2017 annual reports filed with the Michigan Public Service Commission for both the Renewable Energy Plan and Energy Waste Reduction Program are available from Customer Service and at our website: [www.hollandbpw.com](http://www.hollandbpw.com).

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

*Dave D. Koster*

Dave Koster,  
General Manager

Holland Energy Park Visitor Center is open for self-guided group tours. Go to [www.HollandEnergyPark.com](http://www.HollandEnergyPark.com) to schedule a visit.



## MORE THAN 18 MILLION KWH SAVED THROUGH EFFICIENCY PROGRAMS...

The equivalent of what more than 2,400 homes use per year!

Pursuant to 2008 Public Act 295 (amended by PA 341 and 342) Holland Board of Public Works (HBPW) is providing this annual summary on the Energy Waste Reduction (EWR) and Renewable Energy Plan (REP) results for the calendar year 2017.

### ENERGY WASTE REDUCTION

Following are highlights of actions taken to meet State EWR standards:

- The 2017 Residential Appliance Rebate Program resulted in **509 HBPW customers** receiving rebates for **996 items**, including energy efficient appliances, furnaces, air conditioners, LED light bulbs, and more. This is more than a 30 percent increase from last year. Customers received more than **\$75,000 in incentives** for purchasing these items, and **saved 394,946 kWh**.
- Continuing to promote energy saving light-emitting diode (LED) technology, HBPW distributed nearly **5,000 free LED light bulbs** at community events and the Service Center, including night lights, 60 watt equivalents, candelabras, and indoor/outdoor flood lights. To further encourage conversion to LEDs, **250 customers** turned in **661 pounds** of old incandescent holiday lights, almost **three times** as much compared to 2016, to be properly recycled in exchange for LED string lights.
- Commercial and Industrial customers received incentives for upgrading to high-efficiency electric equipment. **150 projects** were completed with more than **16.9 million kWh saved**. Participation was so high the program exhausted its funding in November.
- HBPW released a **Houses of Worship Energy Efficiency** Study, a comprehensive analysis of energy usages and energy saving measures as a guidebook to make smart energy choices.



Mayor DeBoer presented the first On-Bill Loan Program participant, Sandra Keirnan, a window-cling of her Department of Energy Home Energy Score, a new HBPW pilot program. Keirnan was a finalist in the 2017 Governor's Energy Excellence Awards for Best Residential Project.

The table below shows the number of kilowatt hours (kWh) saved in 2017 compared to state requirements and how much was spent compared to what the state allowed. Also shown are the goals and allowances for 2018 as required by state law PA 295, amended by PA 341.

#### EWR KWH SAVINGS

2017 kWh Goal	2017 kWh Saved	2018 kWh Goal
281,062	302,290	304,390
1,399,973	1,492,998	2,432,960
9,164,355	16,933,721	8,211,971

#### TOTALS

10,845,390	18,731,009	10,949,321
------------	------------	------------

#### EWR EXPENDITURES

2017 Allowance	2017 Spent	2018 Allowance
\$85,824	\$31,290	\$91,295
\$259,529	\$165,439	\$393,372
\$1,282,226	\$777,443	\$1,204,088
\$70,764	\$70,764	\$89,031
\$70,764	\$36,612	\$35,612

#### TOTALS

\$1,769,107	\$1,081,447	\$1,813,398
-------------	-------------	-------------

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

\*HBPW contracted an independent auditor to verify the incremental gross energy savings for each EWR program for 2017. DNV GL Inc. reported that HBPW has met the energy savings requirement of PA 295.