

RENEWABLE ENERGY PLAN (REP)

During 2020, HBPW took the following actions to meet REP standards:

- Renewable energy (RE) credits were acquired through power purchase agreements with Wildcat Wind Farm I, Beebe 1B Wind Farm, Pegasus Wind Farm, Assembly I Solar, North American Natural Resources (landfill gas) and Energy Developments (landfill gas).
- HBPW acquired 52,550 megawatt hours (MWh) of electricity from landfill gas, 102,990 MWh from wind, and 66 MWh from solar for a total of 155,606 MWh of renewable energy during the 2020 calendar year. This resulted in 14.90% of HBPW's total sales being supplied by renewable energy.
- The first of three solar farms added to HBPW's portfolio in 2018 and 2019 commenced commercial operation in December of 2020. Commercial operation of the other two solar farms in HBPW's portfolio is expected in 2021 and 2022, respectively.

MICHIGAN RENEWABLE PORTFOLIO STANDARD (RPS)

STATE RE SUPPLY REQUIREMENTS:

2015	.....	10%
2016	.....	10%
2017	.....	10%
2018	.....	10%
2019	.....	12.5%
2020	.....	12.5%

HBPW's YEARLY RE SUPPLY:

2016	.....	12.43%
2017	.....	14.16%
2018	.....	12.32%
2019	.....	11.79%
2020	.....	14.90%

HBPW's BANKED RE CREDIT PROGRESS*:

2016	.....	12.24%
2017	.....	13.80%
2018	.....	10.39%
2019	.....	5.39%
2020	.....	3.06%



* RE credits in excess of the annual PA295 (amended by PA 341 & 342) RPS compliance requirements are banked for potential usage in meeting compliance requirements of future years.

COST TO CUSTOMERS

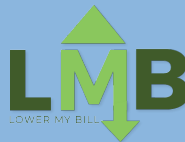
The 2020 itemized monthly charge to a residential customer for the Energy Waste Reduction program (listed as Energy Optimization on your bill) was \$0.001759 per kilowatt hour.



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.

Learn more at HollandEnergyFund.com.



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

Call 616.393.5610

Find us on social media!



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@HBPW_NEWS

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SMART ENERGY PROVIDER
American Public Power Association

RP3 RELIABLE PUBLIC POWER PROVIDER
American Public Power Association



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Energy Waste Reduction & Renewable Energy Plan



2020 ANNUAL SUMMARY REPORT



Holland Board of Public Works

Dear Holland BPW Electric Customer,

Caring for our community involves using resources efficiently. That means we operate with financial and environmental responsibility. State requirements from Michigan Public Act 295 (amended by PAs 341 and 342), known as the Clean, Renewable and Efficient Energy Act, call on all utilities in the state to implement a Renewable Energy Plan and an Energy Waste Reduction program for their customers. The Act requires utilities to source at least 12.5 percent of their energy from renewable technologies and to implement programs that help customers improve energy efficiency. In 2020 we met all state requirements for saving energy and incorporating renewable energy into the power that we supply to you. We sourced 12.5 percent of our power from renewable sources..

In 2020 Holland BPW expanded investments in renewable energy sources from Pegasus Wind Farm, Assembly Solar 1 and Invenergy. With the additional investments in renewable energy, we are making strides in decarbonization and the Community Energy Plan's (CEP) recommendations.

In support of renewable energy expansion, Holland BPW and the City of Holland have both chosen to purchase all of their electricity for municipal buildings from renewable sources! If you would like to purchase additional amounts of renewable energy, too, sign up for the Elective Renewable Energy Rate at hollandbpw.com/en/renewable.

Our Energy Smart Program is ongoing and successfully helps you save money and electricity by making simple changes. This Annual Summary Report highlights how that was achieved. Additional copies of the complete 2020 annual summary filed with the Michigan Public Service Commission for both the Renewable Energy Plan and Energy Waste Reduction Program are available from Customer Service and online, hollandbpw.com/en/energy-smart-program.

Making strides in energy efficiency as a community takes all of us working together. Holland BPW thanks you for utilizing our Energy Smart rebates and programs. Your dedication to energy efficiency makes a difference!

Thank you,

David G. Koster

David G. Koster,
General Manager



Holland BPW offers business and residential rebates for level 2 electric vehicle chargers to charge battery electric vehicles and plug-in hybrid electric vehicles. hollandbpw.com/chargeupholland.

MORE THAN 9 MILLION KWH SAVED THROUGH EFFICIENCY PROGRAMS... the equivalent usage by more than 1,200 homes per year!

Pursuant to 2008 Public Act 295 (amended by PAs 341 and 342) Holland Board of Public Works (HBPW) is providing this annual summary of the Energy Waste Reduction (EWR) and Renewable Energy Plan (REP) results for the calendar year 2020.

ENERGY WASTE REDUCTION

Highlights of actions taken to meet State EWR standards:

- With people working from home during the pandemic, **Energy Smart program participation more than doubled!** In 2020, 1,457 HBPW residential customers (637 in 2019) received rebates for purchasing 2,044 ENERGY STAR and other high-efficiency electric products for their homes, including appliances, air conditioners, electronically commutated motors (ECM) on furnaces, LED light bulbs, and more. Customers received rebates totaling more than **\$154,000**, saving more than **1.2 million** kilowatt hours of electricity.
- Promoting the dramatic energy-saving benefits of ENERGY STAR light-emitting diode (LED) technology, HBPW distributed 14,313 free A-line bulbs, 1,195 night lights, and 1,305 indoor/outdoor floodlights (PARs) (totaling **16,813 free LED bulbs**) at community events and a NEW home delivery program. At the Holiday Light Exchange, **887 pounds** of old incandescent holiday lights were turned in to be properly recycled in exchange for LED string lights.
- In 2020, **109 commercial and industrial customers** received incentives totaling **\$350,720** for upgrading lighting to LED and installing high-efficiency equipment. The first year energy savings from these projects totaled **6.4 million kWh!**
- The NEW Small Business program helped **33 companies** receive **\$76,123** in rebates and saved **876,197 kWh**.



Holland BPW and the City of Holland provided 500 free trees to HBPW electric customers through the Arbor Day Foundation's Energy-Saving Trees program.

The table below shows the number of kilowatt hours (kWh) saved in 2020 compared to state requirements and how much was spent compared to what the state allowed. Also shown are the goals and allowances for 2021 as required by state law PA 295, amended by PAs 341 and 342.

EWR KWH SAVINGS

2020 kWh Goal	2020 kWh Saved	2021 kWh Goal
213,533	287,978	213,533
1,681,823	1,644,688	1,681,823
5,595,645	7,628,254	5,595,645

TOTALS

7,491,001	9,560,920	7,491,001
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EWR EXPENDITURES

2020 Allowance	2020 Spent	2021 Allowance
\$96,066	\$30,665	\$96,066
\$514,002	\$249,275	\$553,048
\$1,230,700	\$498,738	\$1,324,142
\$94,364	\$32,688	\$94,635
\$37,854	\$33,981	\$37,854

TOTALS

\$1,973,256	\$845,347	\$2,105,745
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- LOW INCOME
- ADMINISTRATION
- RESIDENTIAL
- EVALUATION*
- BUSINESS

*HBPW contracted an independent auditor to verify the incremental gross energy savings for each EWR program for 2020. DNV GL Inc. reported that HBPW has met the energy savings requirement of PA 295.