



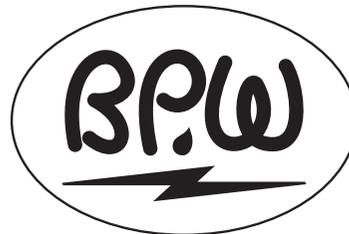
Holland

MICHIGAN

Community Energy Plan

Progress Update

Presented to City Council: December 2023



Holland Board of Public Works

Holland

Community Energy Plan 2023 Annual Report

In 2011, the City of Holland teamed up with Holland BPW and community members to create goals to reduce carbon emissions and to ensure the availability of affordable and reliable electricity for our growing community. The result of that work was Holland's first Community Energy Plan (CEP).

A Strategic Development Team (SDT) appointed by the Mayor and City Council reviews and studies the CEP to evaluate its goals. The SDT most recently completed a revision in 2021. Top priorities are organized into five Key Levers to focus on for the next 3-5 years. This report presents an overview of actions taken and progress made on those goals.

KEY LEVERS

Electric Portfolio | Building Energy Consumption | Transportation Education | Carbon Offsets

The City and Holland BPW are committed to carbon reduction. We are working to make aggressive progress on the CEP goals. As responsible global citizens, it is up to all of us — City staff, residents, and businesses — to reduce carbon emissions.

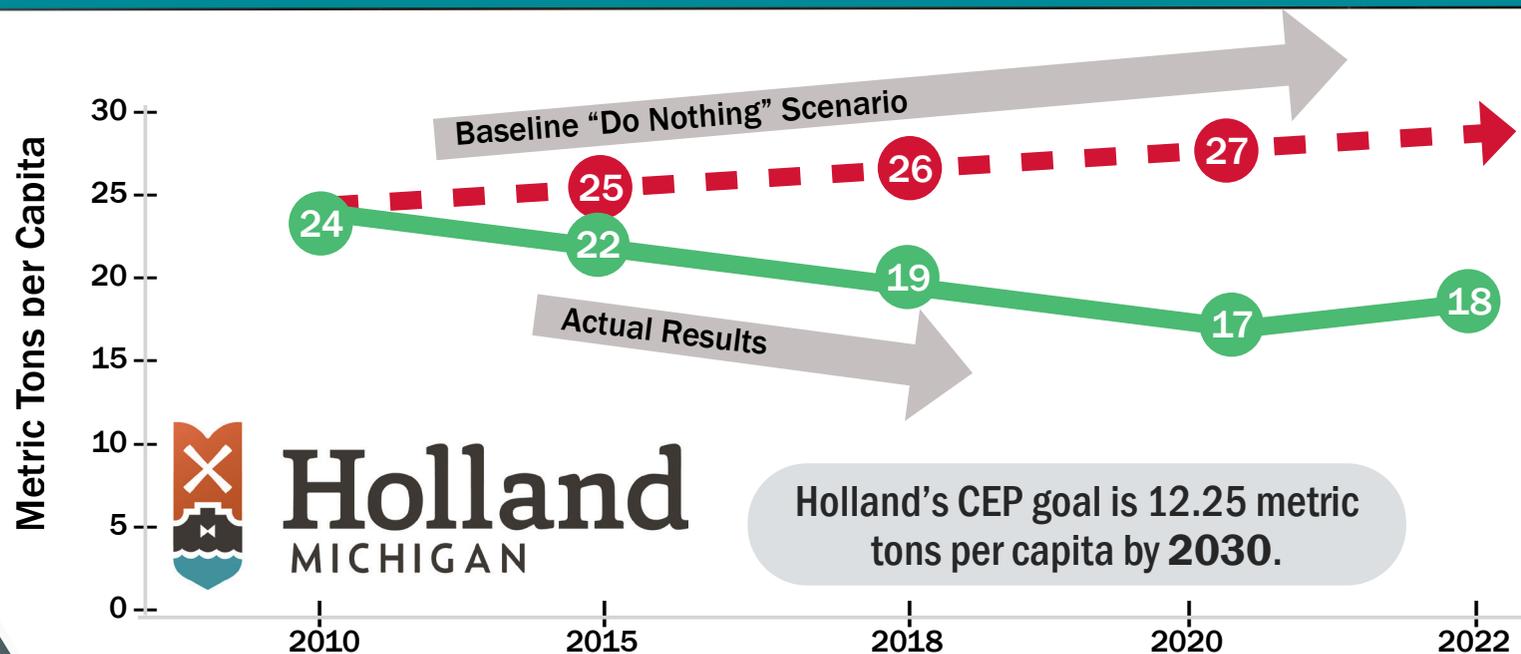
Learn more at

[cityofholland.com](https://www.cityofholland.com)

Our Progress

Since the Community Energy Plan was approved in 2011, the City of Holland and Holland BPW continue to make steady progress reducing our carbon footprint. We recently updated our target to reflect the urgency of the latest climate science and the attainable results we believe can be achieved within the next few years.

Holland's carbon emissions per capita since the CEP first went into effect.



The carbon results for 2022 show a slight increase in per-capita emissions from 2020 levels, due primarily to new growth in industrial demands in 2022 and artificially low energy use during the early months of COVID in 2020.

Residential electric use in 2022 was below both 2020 and 2018 levels.

Electric Portfolio

Holland BPW's electric portfolio has a major impact on how well our community is able to reduce carbon emissions. Cheaper, cleaner electricity makes it more feasible for residents to electrify their homes, businesses, and vehicles.

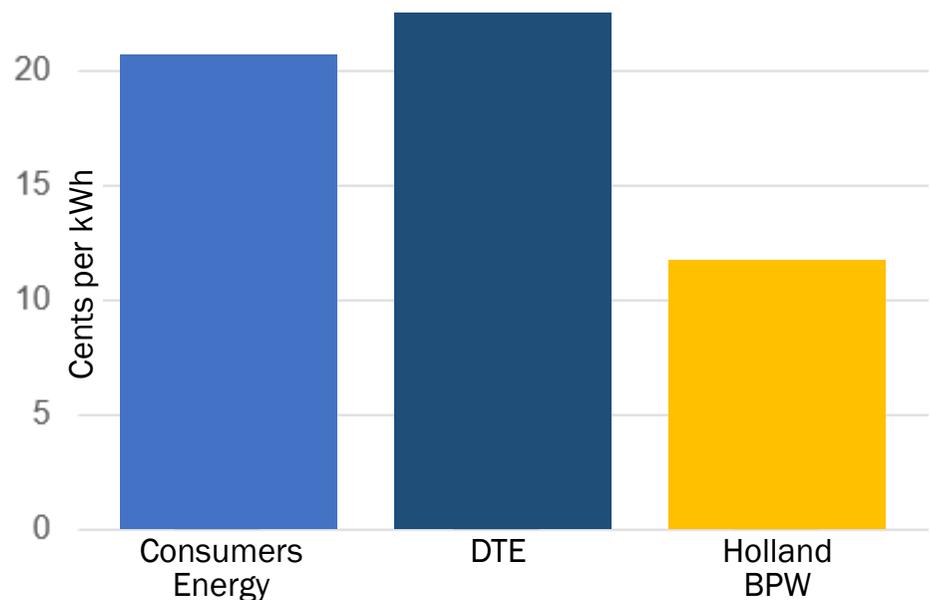


Portfolio currently includes

16.4%

Renewable Energy

Residential Electricity Cost Comparison
(Aug. 2023, Michigan Public Service Commission)



50%

less CO₂
per MWh

Emission Rate

In 2023, Holland BPW's portfolio had 50% fewer pounds of CO₂ per MWh than in 2005.

Building Energy Consumption

Residents and business owners have a large role to play in our community's carbon reduction efforts, since personal behavior affects the energy used inside buildings.



Here's how Holland BPW's Energy Waste Reduction (EWR) rebates helped customers reduce energy use in 2022:

Residential

Business

\$136

Average
Rebate

\$9,800

\$125

Average 1st Year
Energy Cost
Savings

\$4,800

1,352
kWh

Average 1st Year
Energy Savings

123,107
kWh

hollandbpw.com/rebates

Transportation

We can reduce emissions and our carbon footprint by switching from gas to electric vehicles (EVs), walking, biking, and riding public transportation, like MAX Transit.

The number of EVs registered in the 49423 zip code increased rapidly from 2018 to 2023.

7X
increase



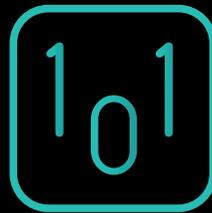
Electric vehicle charger rebates are now available for all residential and commercial installations. This meets one of the CEP's transportation targets for 2023. Residential charger rebates are \$300-325 and rebates for commercial chargers range from \$1,500 to \$35,000 per installation.



Education

We are committed to educate the community about the importance of being energy conscious, the effects personal choices have on the environment, progress on the Community Energy Plan, and how to reduce your carbon footprint.

HOME ENERGY



\$300

FREE Energy-Savings Materials

Home Energy 101 is a new residential energy efficiency program offered by Holland Energy Fund. Open to all HBPW residential electric customers, the program has helped over 275 customers since launching in October of 2022. Residents of the City who complete the Home Energy 101 program are eligible for up to \$6,000 in home energy rebates from Holland Energy Fund.



Sign up now!

hollandenergyfund.com

Carbon Offsets

Most of us cannot reduce our carbon footprint all the way to zero without the help of carbon offsets. Carbon offsets offer a verifiable way to negate carbon impacts. They work through third parties who either create clean energy or capture emissions at a separate site.



Holland BPW's **Elective Renewable Energy Rate** is an easy and affordable way to reduce the carbon footprint of your home or business by purchasing electricity from renewable sources for a small premium of \$0.01/kWh. Visit: hollandbpw.com/renewable

The amount of renewable energy sold to homes and businesses.

+3,700% since 2020!

community carbon fund

In 2023, ODC Network and the Community Foundation of the Holland/Zeeland Area launched the Community Carbon Fund. The Fund is a new way for local residents to offset the carbon emissions from their daily lives by giving to build/create local carbon mitigation projects. Go to thecommunitycarbonfund.org to learn more and make a tax-deductible donation to reduce carbon emissions in our community.



community foundation
Holland/Zeeland Area

How Can I Help?

Residents

- Participate in the City of Holland's Home Energy 101 program, Holland BPW's Energy Smart Home programs, and SEMCO Energy's Residential Savings programs.
- Enroll in Holland BPW's Elective Renewable Energy Rate.
- Buy carbon offsets that support local projects at thecommunitycarbonfund.org.



hollandenergyfund.com



hollandbpw.com/rebates



semcoenergygas.com

Businesses

- Participate in Holland BPW's Energy Smart programs and SEMCO Energy's Waste Reduction Commercial and Industrial (C&I) Program.
- Enroll in Holland BPW's Elective Renewable Energy Rate.
- If your business buys renewable energy or carbon offsets from a third party, let us know! Include your contribution in the City of Holland's carbon calculations and get the acknowledgment your company deserves.

Contact: energysmart@hollandbpw.com

What's Next?

- In 2024 Holland BPW will have a goal of saving 2% of its total electric sales through its Energy Waste Reduction (EWR) program, which is the last step in a multi-year plan that has increased the annual savings goal. This goal will exceed the state's recently-passed 1.5% savings requirement for electric providers in Michigan.
- Federal tax credits are already available and federal rebates will arrive in late 2024 for the purchase of electric panel and wiring upgrades, heat pumps, and other home electrification equipment. When combined with Holland BPW and Holland Energy Fund rebates, total available incentives should exceed \$10,000 for most Holland households.
- New state laws passed in November of 2023 increased Michigan's renewable portfolio standards, requiring that utilities like Holland BPW to source 50% of their electricity from renewables by 2030, ultimately requiring a 100% clean energy standard by 2040. Holland BPW will be initiating an updated integrated resource planning (IRP) process in 2024 to investigate what combination of efforts will be required to meet the new standards and best support our existing affordability and reliability.

Contact Us

energysmart@hollandbpw.com



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