



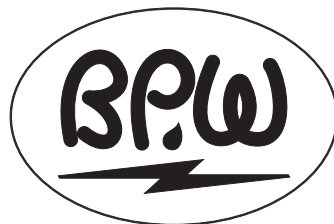
Holland

MICHIGAN

Community Energy Plan

Progress Update

Presented to City Council: November 2022



Holland Board of Public Works

Holland

Community Energy Plan 2022 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.

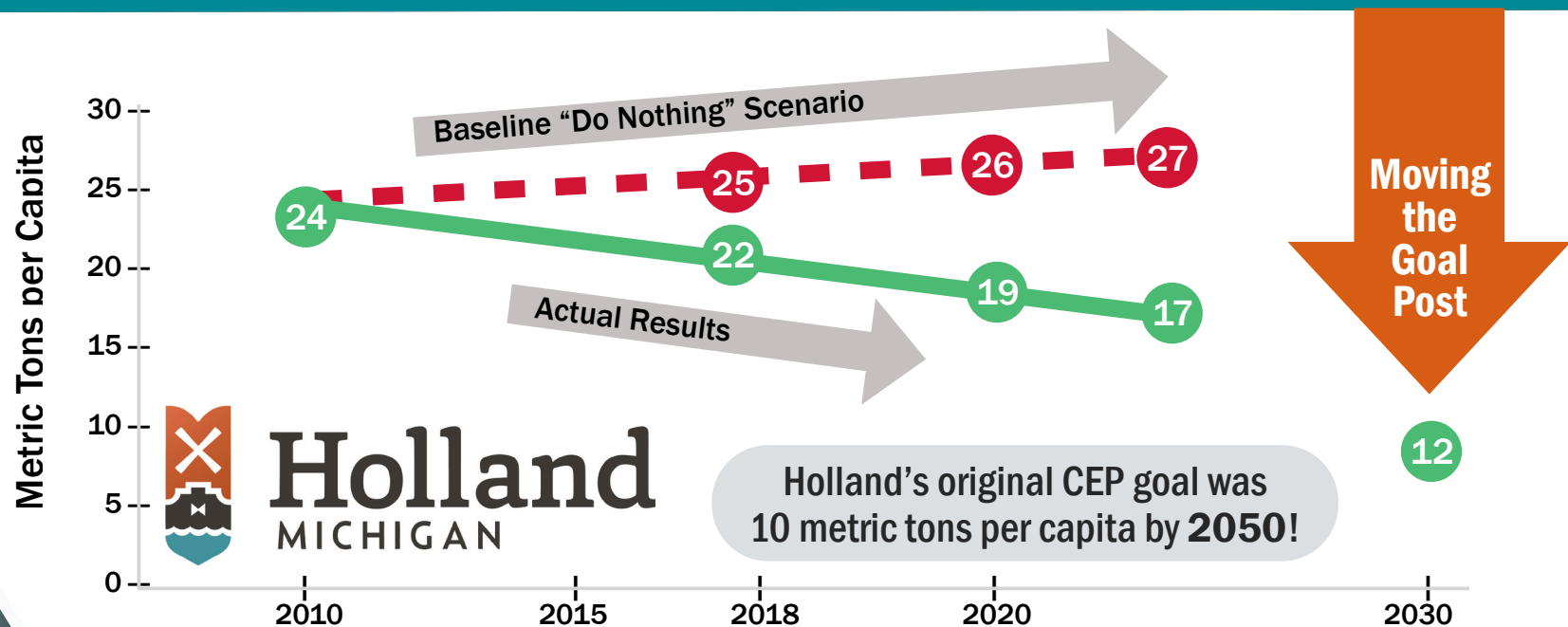
Learn more at

cityofholland.com

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.



New
Goal

12.25

Metric Tons CO₂ per Capita
by 2030

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.

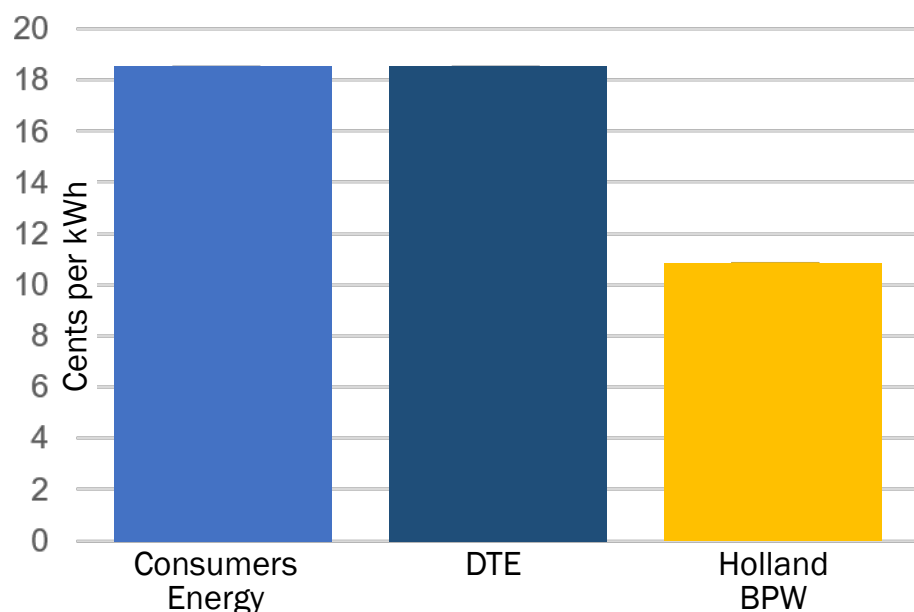


Holland Board of Public Works
Portfolio currently includes

15.7%

Renewable Energy

Residential Electricity Cost Comparison
(Aug. 2022, Michigan Public Service Commission)



50%

less CO₂
per MWh

Emission Rate

In 2022, 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 2021:

Residential

\$118

Average
Rebate

\$115

Average 1st Year
Energy Cost
Savings

1,240
kWh

Average 1st Year
Energy Savings

Business

\$6,700

\$3,400

83,800
kWh

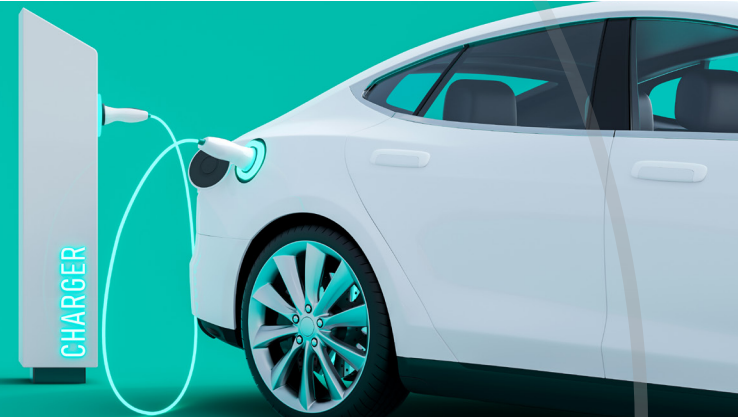
hollandbpw.com/rebates

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 doubled from 2018 to 2020.

2X
increase



In 2022, we completed a Non-Motorized Transportation Plan to identify key projects that will help create a safer non-motorized network for the City of Holland.

[Photo Courtesy of the City of Holland.](#)



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 the Holland Energy Fund. Open to all City of Holland residents, whether you own or rent, Home Energy 101 brings trained non-profit energy advisers into homes to provide tips and recommendations for savings. Plus, participants receive up to \$300 in FREE energy-saving measures.



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 City of Holland and Holland BPW signed on to the Elective Renewable Energy Rate in 2021. Now all municipal buildings get 100% renewable electricity.

The number of homes participating in the Renewable Energy Rate **+33%** from 2018 to 2020!

How does **\$0.01**/kWh add up?

If energy usage is **600 kWh/month**, then the Elective Renewable Energy Rate adds

only **\$5.10/month** to your electric bill.

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.
- Check out misustainableholland.com for local sustainability activities and events.

HOME ENERGY 
hollandenergyfund.com

ENERGY  SMART
PROGRAM™
hollandbpw.com/rebates

 SEMCOENERGY
GAS COMPANY
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?

- **Holland BPW has begun a multi-year plan to increase the budget and goals of its Energy Waste Reduction (EWR) Program to achieve twice the annual energy savings by 2024.**
- **Holland BPW is preparing to add about 30 MW of additional solar energy to its portfolio by 2025 which would bring its approximate renewable portfolio to roughly 20% based on existing sales.**
- **The community is exploring the idea of creating a “carbon fund” to allow residents and businesses to invest in local projects that reduce or capture carbon emissions here in West Michigan.**

Contact Us

energysmart@hollandbpw.com



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