



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

MI Healthy Climate Plan

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Office of Climate and Energy & Council on Climate Solutions

The **Office of Climate and Energy** was established within EGLE in 2019 under Executive Order No. 2019-06, to coordinate action on climate response and provide guidance on reducing greenhouse gas (GHG) emissions, renewable energy, and climate adaptation and resiliency.

Governor Whitmer created the **Council on Climate Solutions** through Executive Order 2020-182. The Council consists of 14 Michigan residents appointed by the governor to represent a range of sectors, experiences, and expertise relevant to climate issues.

Michigan's Climate Commitments

- Reduce emissions from **2005 levels by at least 26-28% by 2025 and 50-52% by 2030** as a part of the US Climate Alliance
- **Economy-wide carbon neutrality no later than 2050** and maintain net negative greenhouse gas emissions thereafter.
(Executive Directive 2020-10)
- EGLE, through the OCE, was directed to develop, issue, and oversee implementation of the **MI Healthy Climate Plan**. (Executive Directive 2020-10)

Why Climate Action Matters to Michigan

FLOODED HOMES



DAMAGED CROPS



DAM FAILURES



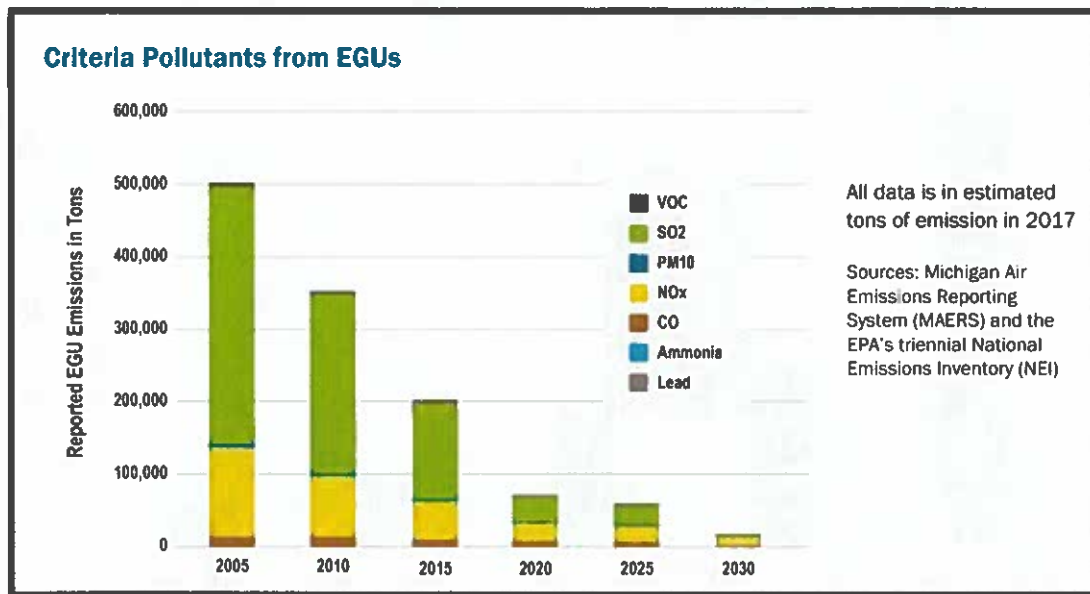
ROADS WIPED OUT BY HIGH LAKE LEVELS



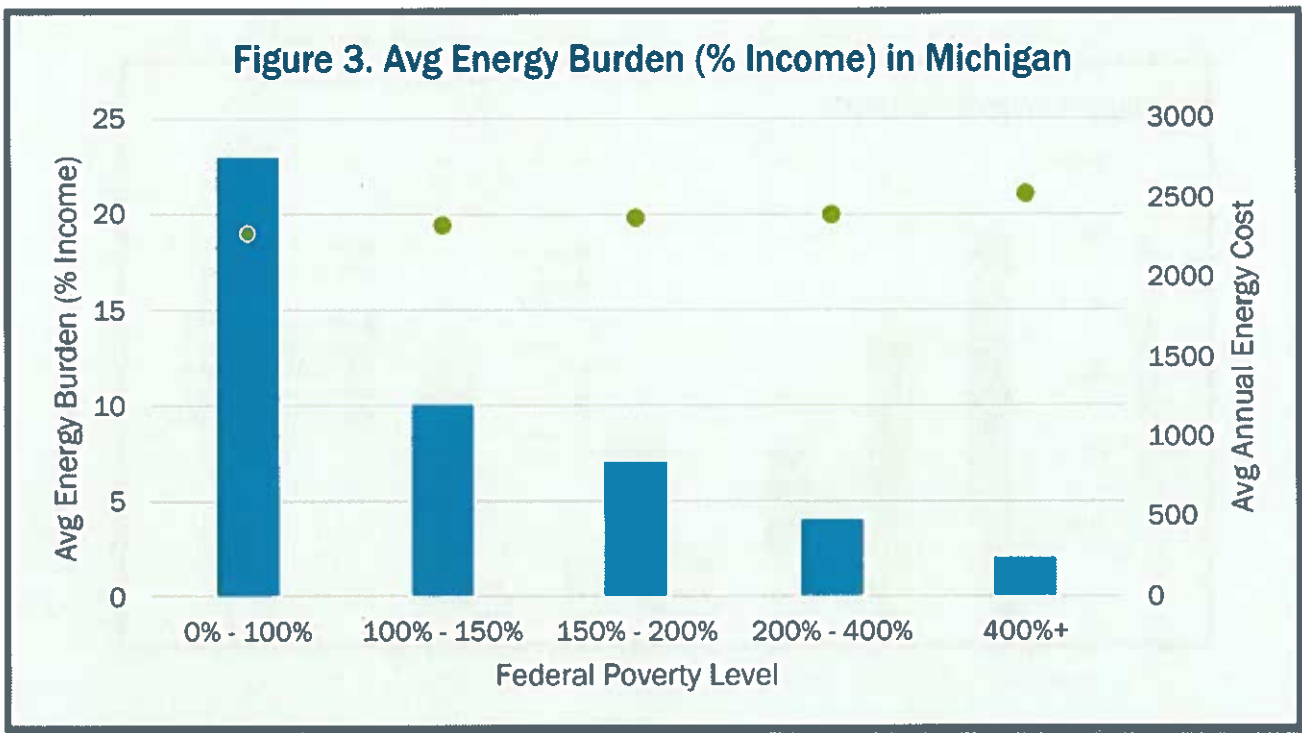
The climate crisis in Michigan is real and costly

Compared to 1900, Michigan is almost **3 degrees warmer** and gets around **five more inches of rain per year**.

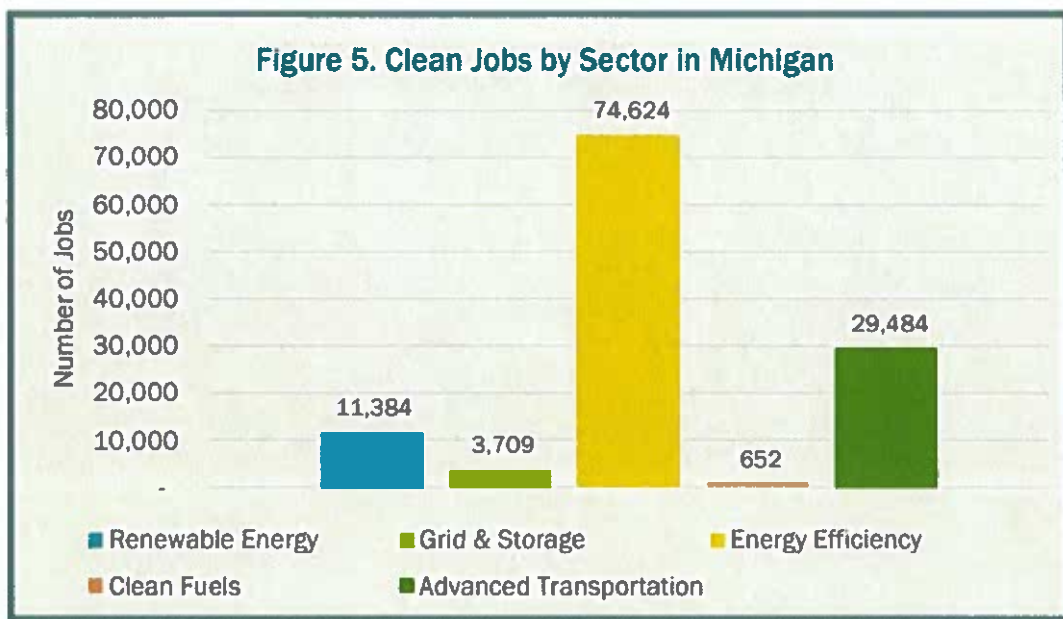
Improve Health Outcomes



Address Environmental Injustices



Lower Costs and Create jobs



New context: federal funding for climate action

Inflation Reduction Act

- Climate Pollution Reduction Grants
- Greenhouse Gas Reduction Fund
- Home rebate programs
- Tax incentives

Infrastructure Investment and Jobs Act

MI HEALTHY CLIMATE PLAN

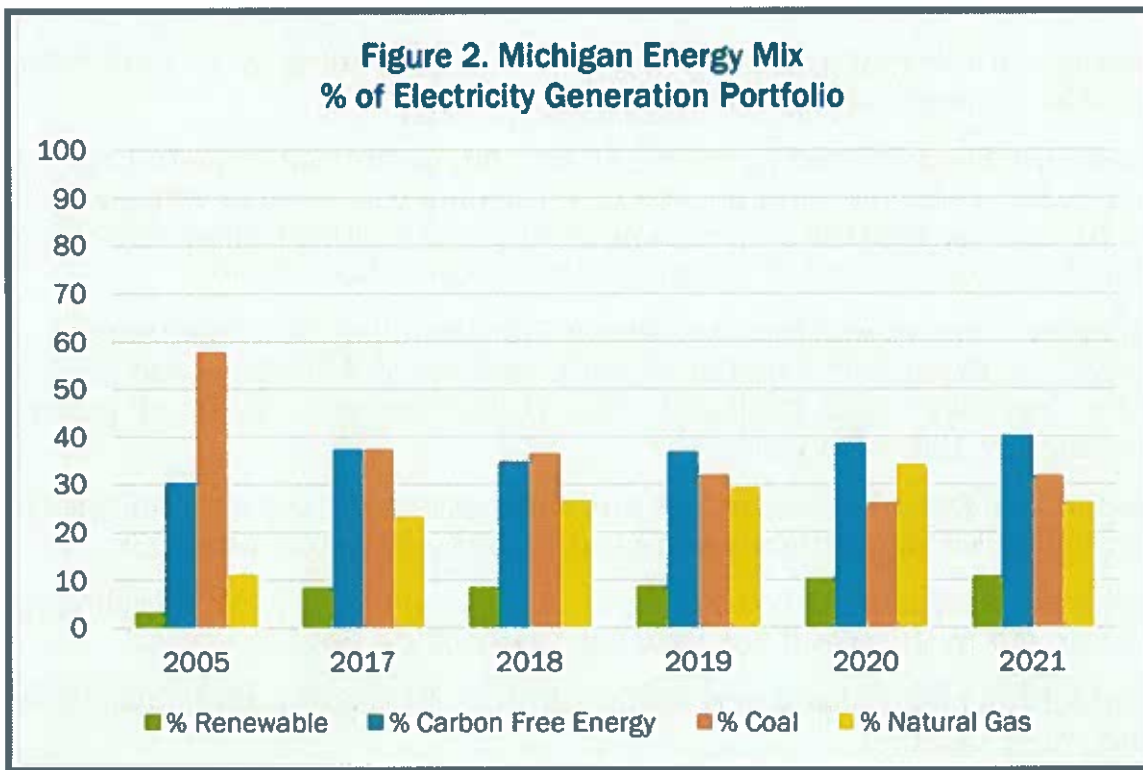
Development of the Plan



Roadmap to 2030

- **Justice:** Ensure that at least 40 percent of state funding for climate-related benefit Michigan's disadvantaged communities
- **Clean the Electric Grid:** Generate 60 percent of the state's electricity from renewable resources and phase out remaining coal-fired power plants by 2030. Limit energy burden from powering and heating homes to not more than 6 percent of annual income for low-income households.
- **Electrify Vehicles and Increase Public Transit:** Build the infrastructure necessary to support 2 million electric vehicles on Michigan roads by 2030. Increase access to clean transportation options – including public transit – by 15% each year
- **Repair and Decarbonize Homes and Businesses:** Reduce emissions related to heating Michigan homes and businesses by 17 percent by 2030.
- **Industry: Recycling:** Encourage innovation, triple Michigan's recycling rate to 45 percent by 2030 and Cut food waste in half by 2030.
- **Protect Michigan's Land and Water:** Protect 30 percent of Michigan's land and water by 2030.

60% renewable energy by 2030



Potential policy areas



Update to Michigan's renewable portfolio standard



Improve the IRP process to accomplish MHCP goals



Create more favorable conditions for customer-enabled renewables



Set an energy storage target



Limit energy burden to no more than 6%

**Reduce
emissions by
17%
from Michigan
buildings**



**Require new
buildings to be
more efficient**



**Decarbonize
existing
buildings via
upgrades**

Potential policy areas



Increase energy waste reduction standards

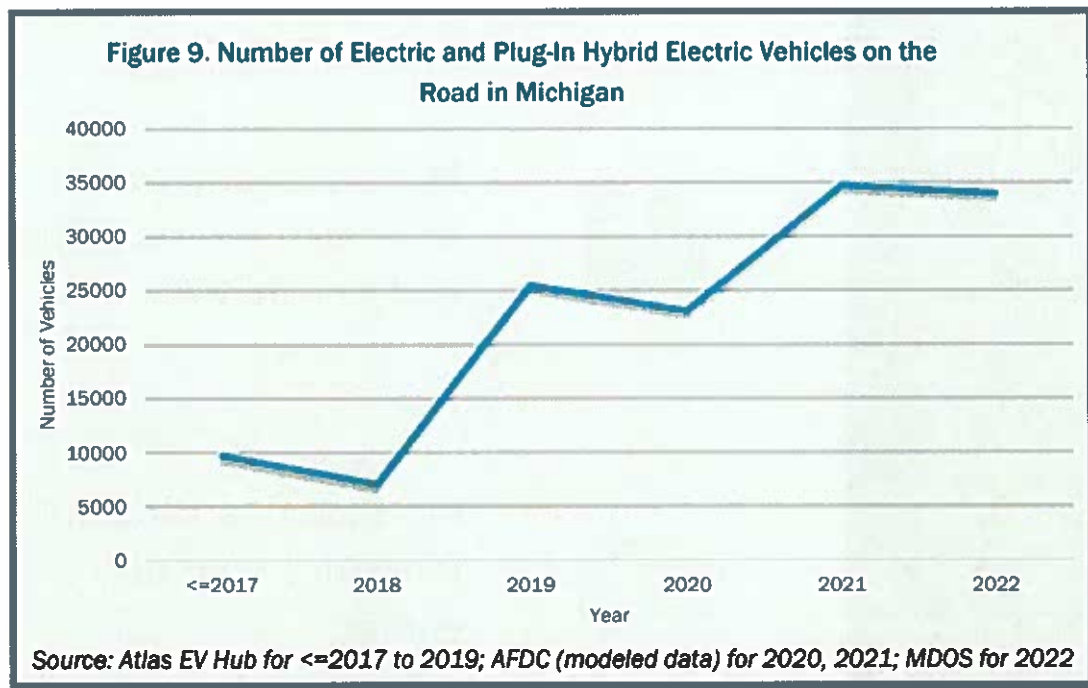


Restore energy waste reduction standards for municipal electric and gas utilities

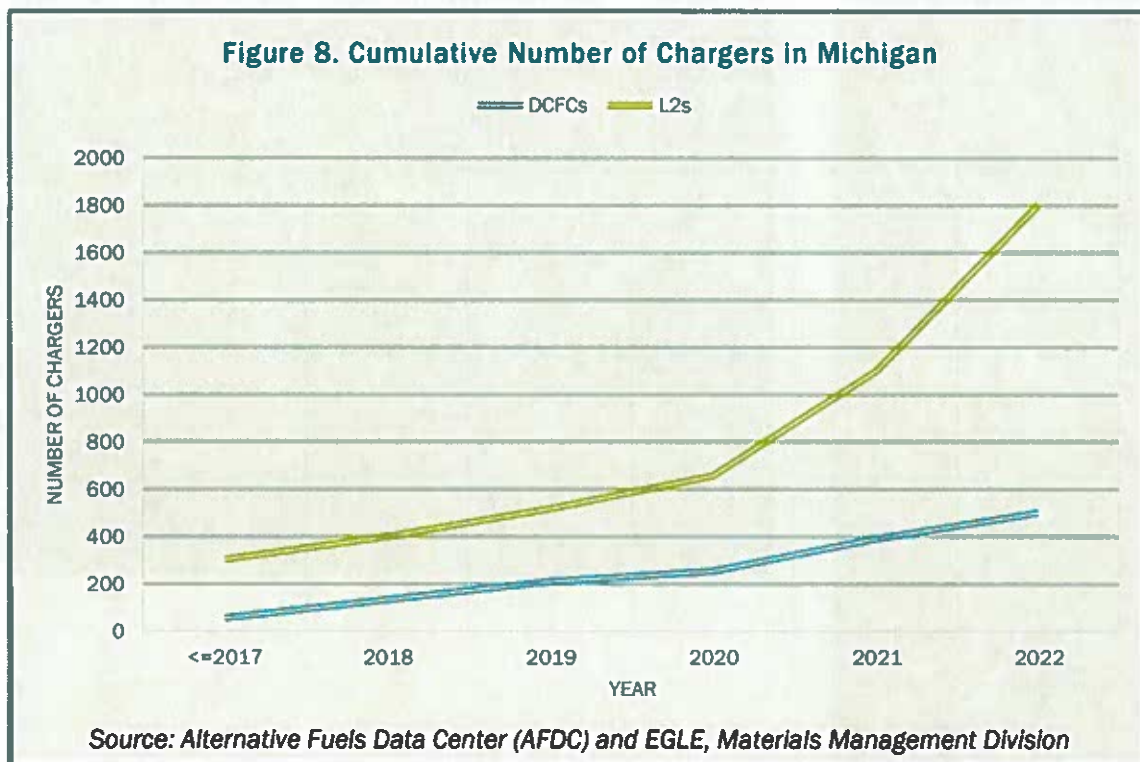


Increase financing options for efficiency upgrades and clean energy

Supporting 2 million EVs on the road by 2030



EV Charging Infrastructure



Potential policy areas

Clean fuel standard to accelerate electrification and promote rapid growth in low-carbon, renewable fuels

Provide purchasing incentives for electric vehicles

More recommendations in the Michigan Mobility Plan and from Office of Future Mobility and Electrification

Leading by example in state operations

Signed agreements to power state-owned facilities with 100 percent renewable energy by 2025.

Committed to carbon neutrality in state-owned buildings by 2040.

Pledged to reduce energy usage in state-owned facilities 40 percent by 2040.

Developed a plan to responsibly site solar across state-owned properties.

Committed to begin electrifying the state's vehicle fleet.

Climate Plan in the Budget Recommendations

Environmental Justice

\$100m environmental justice fund

Built Environment

\$212m residential energy efficiency upgrades
\$50m home energy upgrades
\$25m home weatherization
\$5m Michigan Saves
\$300m health and safety in schools (partial)

Energy

\$40m renewable-ready communities
\$43m grid resiliency

Natural and Working Lands

\$10m climate smart farming
\$1.5m climate & carbon sequestration

Transportation

\$150m electric school buses
\$65m electric vehicle charging
\$48.4m electric vehicle tax cut
\$45m clean fleet
\$10m State fleet conversion
\$160m transit capital grants (partial)

Industry

\$200m clean energy supply chain tax credit

All

\$11m GHG emissions reductions
\$2+m healthy climate corps & network

Related Investments

\$350m federal program match (BIL, IRA, CHIPS)
\$15m critical minerals recycling
\$10.3m orphaned wells program

Michigan Department of
Environment, Great Lakes, and Energy



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