

Developing the Climate Strategy

Climate Equity Advisory Council

The Climate Equity Advisory Council (CEAC) provided feedback and guidance on developing actions that best support community needs.

It informed the development of indicators used in the Community Vulnerability Assessment. The CEAC also developed equity-centered implementation recommendations for the strategy, called **Community Guidelines**.



1. Act in equitable and just ways
2. Build engagement through shared vision, goals, and practices
3. Put people first
4. Build community leadership & community action
5. Link & leverage actions to accelerate impacts
6. Strengthen policy and action that directly reduce emissions

Community Engagement



In 2021, the Office of Sustainability and Climate Strategy project team facilitated three town hall meetings and six focus group sessions to better understand resident perspectives and priorities for climate action.

Cross-Dept. Coordination



City departments were engaged throughout the development of the Detroit Climate Strategy to ensure that the strategies and actions align with City priorities.

Addressing Climate Change in Detroit



The City of Detroit's Climate Strategy is a framework for residents, businesses, City departments, and industry to achieve the City's greenhouse gas (GHG) emission goals and increase resilience as climate change impacts our daily lives.

This strategy builds on the Sustainability Action Agenda released by Mayor Duggan in 2019 and updated in 2022. It was developed collaboratively by the Office of Sustainability, the Climate Equity Advisory Council (CEAC), and was informed by extensive community engagement.

“Detroit has always been known for its determination, innovation and resilience. These qualities have shaped our history and will continue to be assets as we confront the pressing challenges posed by climate change.”

Mayor Duggan, City of Detroit

Detroit Climate Strategy

This document outlines **4 strategies** and **35 actions** centered on mitigation (reducing GHG emissions) and resilience (adapting to the impacts of climate change).

- 1 **Transitioning to Clean Energy**
- 2 **Increasing Sustainable Mobility**
- 3 **Accelerating Energy Efficiency and Reducing Waste**
- 4 **Prioritizing Vulnerable Residents and Adapting to Change**
 - a Reducing Flood Risks
 - b Protecting from Extreme Heat
 - c Improving Air Quality

scan this for full document



Want to learn more?

Learn more about the impacts of climate change, actions and targets to lower GHG emissions, and share your vision for a climate-friendly Detroit.

detroitmi.gov/sustainability



Detroit is transforming 250 acres of vacant land into solar energy

Prompted by a challenge issued by President Joe Biden for cities to use more solar power and the passage of the Inflation Reduction Act, Mayor Duggan launched an initiative to transform blighted areas into solar arrays. The initiative is paired with community benefits that can be used for energy efficiency upgrades to reduce residents' energy burden.

Office of Sustainability



Detroit Climate Strategy

Four Priorities

1 Transitioning to Clean Energy

Almost 70% of our citywide GHG emissions in 2018 came from the generation of electricity from dirty sources. Clean energy, like solar, does not produce GHG emissions, is renewable and is critical to cleaning up the air we breathe.

2 Increasing Sustainable Mobility

Sustainable mobility like walking, biking, transit and zero emission vehicles is critical to reducing GHG emissions and improving quality of life. Increasing mobility options ensures that all Detroiters can access clean, safe, affordable, and efficient ways to get around.

3 Accelerating Energy Efficiency and Reducing Waste

Reducing energy consumption in homes and buildings will reduce our GHG emissions, lower energy bills, and improve indoor and outdoor air quality. Recycling, composting, and reducing the amount of waste that we create also lowers GHG emissions, saves natural resources, and creates more jobs.

4 Prioritizing Vulnerable Residents and Adapting to Change

The intensity and frequency of extreme weather events have increased, and it is vital to strengthen the resilience of the city with a focus on our most vulnerable residents. For example, expanding the City's basement back up protection program ensures that more Detroiters stay dry during heavy rains.

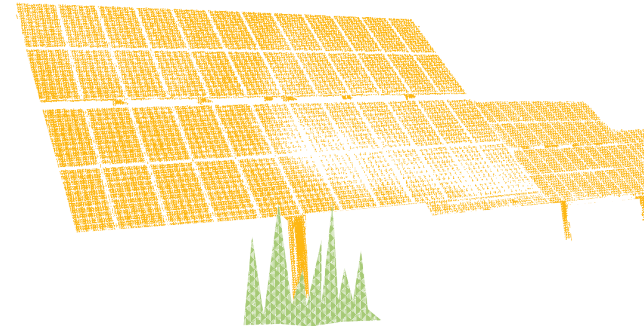


View the full Detroit Climate Strategy Online

Find out more about the 35 actions and three-year targets that will help us meet our climate goals and improve everyone's quality of life.

www.detroitmi.gov/sustainability

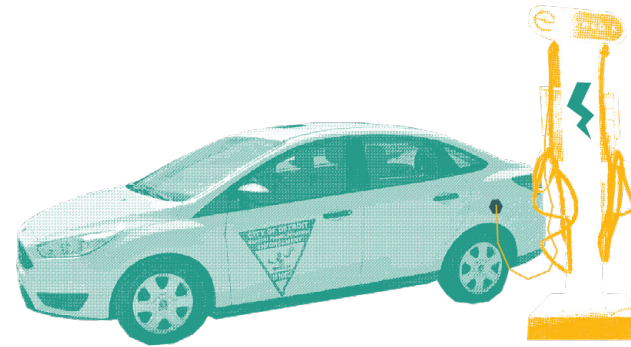
Action Highlights:



Clean Energy

Powering Detroit with Solar

The City has a goal of powering 100% of its municipal buildings with clean energy by 2034. This year, the Office of Sustainability, and Department of Neighborhoods partnered with environmental and energy organizations and community residents to host solar arrays and receive community benefits.



Sustainable Mobility

Installing EV Chargers Across the City

The Office of Mobility and Innovation is working to ensure Detroiters in every District have access to EV charging locations. In the next 3 years, 200+ publicly accessible EV chargers will be installed in City facilities, garages, on-street, and surface parking lots across Detroit.



Energy Efficiency

Assisting Residents and Lowering Energy Costs

Leveraging home repair programs, the City will support residents with roof and windows repairs, and weatherization, ensuring they can improve the insulation of their homes. This will help increase their comfort, and lower their energy costs.



Prioritizing Vulnerable Residents

Building Community Resilience

In October 2023, the City opened its first Resilience Hub at A.B. Ford Park. This Community Center is equipped to provide critical resources during outages, floods, heatwaves, and other climate emergencies. This Hub will be part of a broader network of Resilience Hubs across Detroit.

Detroit Climate Strategy: Implementation Table

| STRATEGY | # | ACTION | 3-YEAR TARGET | LEAD | PARTNERS |
|---|--|--|--|------|--------------------|
| Transitioning to Clean Energy | 1.1 | Source 100% of municipal electricity from clean energy by 2034 | Power 50% of municipal electricity with clean energy | OoS | INFRA |
| | | | Establish a pathway to 100% clean electricity | | |
| | 1.2 | Launch a solar program to generate clean energy on City-owned sites and provide community benefits to residents | Issue a Request for Proposals for the deployment of solar energy on City-owned sites | OoS | INFRA |
| Increasing Sustainable Mobility | 2.1 | Install 200+ public EV chargers at City facilities, garages, on-street and surface parking lots, covering every District | Install EV chargers in 7 commercial corridor lots | OMI | MPD |
| | | | Issue Executive Order requiring all municipal facilities with parking, including Recreation Centers, to have EV chargers installed by 2025 | | |
| | | | Leverage Federal funding to expand on-street charging | | |
| | 2.2 | Pilot EV carshare services in neighborhoods underserved by transit | Ensure the presence of at least 2 publicly accessible EV car share vehicles at each Recreation Center | OMI | OoS |
| | 2.3 | Adopt ordinance requiring EV infrastructure for new developments | Adopt an ordinance requiring 20% of spaces in new developments be EV-capable | OMI | Legislative Policy |
| | 2.4 | Transition City light-duty vehicle fleet to 100% zero emission by 2034 | Issue Executive Order requiring purchase of zero emission light-duty vehicles | GSD | OMI OCP |
| | | | Require that every Department have light duty Zero Emission Vehicles in their fleet | | |
| | 2.5 | Transition City heavy-duty vehicles to zero emission and clean fuel options | Complete City fleet conversion plan | GSD | OMI OCP |
| | | | Implement City fleet conversion plan | | |
| | 2.6 | Transition City bus fleet to electric or clean fuel buses | Procure zero emission buses as part of fleet transition | DDOT | OMI OCP |
| | 2.7 | Adopt a single pass for all forms of public transportation | Integrate at least 2 mobility modes (i.e. DDOT and MoGo) | OMI | DDOT |
| | 2.8 | Make equitable investments in pedestrian and cyclist infrastructure | Complete 8 miles of the Joe Louis Greenway, with a MoGo bike station at every mile of the greenway | DPW | PDD |
| | | | Invest \$31 million in intersection safety improvements | | |
| | 2.9 | Invest in public transit infrastructure to increase ridership | Improve reliability and timing of buses per the DDOT Reimagined Plan | DDOT | OoS |
| 2.10 | Reduce miles traveled to goods and services | Launch master planning process citywide—increase policies for mixed use development and Transit Oriented Development (TOD) | DDOT | OoS | |
| 2.11 | Support mobility innovation and investment | Pilot inductive charging and associated activations on city roadways | OMI | OoS | |
| | | Expand the Transportation Innovation Zone | | | |
| | | Launch a program to prepare youth for future mobility and innovation jobs | | | |
| Accelerating Energy Efficiency and Reducing Waste | 3.1 | Adopt an energy benchmarking ordinance | Collect annual energy and track water data for City buildings greater than 10,000 sq. ft | CDD | GSD |
| | | | Adopt an ordinance requiring benchmarking for targeted public and private buildings | | |
| | 3.2 | Retrofit municipal facilities to reduce their use of energy and fossil fuels | Upgrade 25% of the largest energy using critical facilities, achieving at least 25% energy reduction | CDD | GSD |
| | 3.3 | Require all new municipal buildings to be all-electric or all-electric ready | Issue Executive Order requiring new municipal buildings to be all-electric or all-electric ready | OoS | BSEED |
| 3.4 | Expand access to energy efficiency programs and electrification upgrades by leveraging existing home repair programs | Complete roof replacements for senior, low-income, and disabled Detroiters via the Renew Detroit Program | HRD | OoS | |
| | | Weatherize Detroiters' homes through the Low Income Home Energy Assistance Program and other programs. | | | |

continue on next page

| STRATEGY | # | ACTION | 3-YEAR TARGET | LEAD | PARTNERS |
|--|---|--|--|--------|-----------------------|
| Accelerating Energy Efficiency and Reducing Waste | 3.5 | Support development of financing programs for energy efficiency and electrification projects | Launch pilot financing program for commercial or multi-family buildings | DEGC | HRD |
| | 3.6 | Accelerate energy reductions in buildings of all scales through increased participation in education, incentives, and recognition programs | Work with partners to identify opportunities for broader buildings decarbonization | OoS | Detroit 2030 District |
| | 3.7 | Increase participation in waste reduction and recycling | Divert 15% of municipal solid waste from landfills | DPW | OoS |
| | | | Increase participation in curbside recycling to 60% | | |
| | | | Increase the amount of food rescued and reduce food waste | | |
| | 3.8 | Develop a zero waste plan to increase waste diversion | Publish a Zero Waste Strategy identifying long term targets for waste diversion and materials management | DPW | OoS |
| | 3.9 | Pilot community and commercial-scale composting initiatives | Pilot community food scrap and yard waste drop-off sites in partnership with local compost processor | DPW | OoS |
| Pilot commercial composting in municipal buildings | | | | | |
| Train health inspectors on food donation and rescue, and provide resources to Detroit businesses | | | | | |
| 3.10 | Work with other municipalities in the region to drive down industrial emissions | Create task force with relevant regional stakeholders to address industrial emissions | OoS | OoS | |
| Prioritizing Vulnerable Residents and Adapting to Change | 4.1 | Develop a network of Resilience Hubs that serve as a resource in times of extreme weather events | Launch two additional Resilience Hubs in Detroit | GSD | DHSM |
| | 4.2 | Increase resident participation in Detroit's emergency management notification system - Detroit 365 | Increase participation in Detroit 365 by 10% | DHSM | Comms |
| | 4.3 | Support neighborhood-level action on climate resilience and emergency preparedness | Launch 3 community engagements to support local communities on climate resilience | DoN | Comms |
| | 4.4 | Expand access to resources for recovery post extreme weather events at the household level | Develop a disaster recovery guide for residents and coordinate distribution via Resilience Hubs | DWSD | |
| | 4.5 | Coordinate with DTE on energy reliability improvements and support prioritization of power restoration to vulnerable communities | Work with DTE on pilot to bury electrical assets underground | OoS | DTE |
| | | | Upgrade at least three recreation centers with back up power | | |
| | 4.6 | Advocate for electric service continuity during extreme weather events | Work with partners to support the continuity of electric service during extreme weather events | INFRA | OoS |
| | 4.7 | Implement large scale green stormwater infrastructure projects and conduct sewer system improvements and maintenance on a regular basis | Invest \$30 million in infrastructure in Rouge Park | DWSD | |
| | | | Invest \$42 million in infrastructure in Brightmoor | | |
| | 4.8 | Expand sewer protection program resources in flood-prone areas of the City | Complete 10,000 lead service line replacements by 2025 | DWSD | Grants |
| | | | Protect 1,000 homes with basement back up retrofits | | |
| 4.9 | Incorporate small-scale green stormwater infrastructure into City-funded capital projects | Incorporate green stormwater infrastructure in the design checklist for City capital projects | CDD | Grants | |
| 4.10 | Reduce the urban heat island effect and mitigate the impacts of extreme heat on public health | Plant 30,000 trees, starting with most blighted properties and areas | GSD | Health | |
| | | Update the Extreme Heat Action Plan | | | |
| 4.11 | Work with partners to reduce truck pollution in areas with low air quality | Launch program for clean freight | BSEED | OMI | |
| | | Complete two green buffers (phytoremediation) along truck corridors and expand to other locations | | | |
| | | Strengthen air quality mitigation at new industrial developments | | | |

BSEED Buildings, Safety Engineering, and Environmental Department
CDD Construction & Demolition Department
DDOT Detroit Department of Transportation
DEGC Detroit Economic Growth Corporation
DHSM Department of Homeland Security and Emergency Management

DoN Department of Neighborhoods
DPW Department of Public Works
DWSD Department of Water and Sewage
GSD General Services Department
HRD Housing and Revitalization Department

INFRA Chief of Infrastructure
OMI Office of Mobility and Innovation
OCP Office of Contracting and Procurement
OoS Office of Sustainability
PDD Planning and Development Department