

Implementing A²ZERO

Year Five (ish) in Review

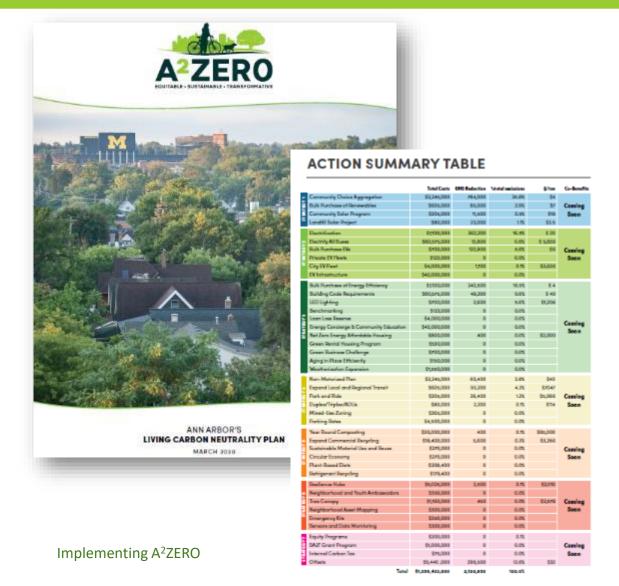
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Together, creating and implementing a just transition to carbon neutrality by the year **2030**.



STRATEGY 1:

Power Our Electrical Grid with 100% Renewable Energy



Significantly Improve the Energy Efficiency in our Homes, Businesses, Schools, Places of Worship, Recreational Sites, and Government Facilities

STRATEGY 5:

Change the Way We Use, Reuse, and Dispose of Materials





STRATEGY 2:

Switch our Appliances and Vehicles from Gasoline, Diesel, Propane, Coal, and Natural Gas to Electric

STRATEGY 4:

Reduce the Miles we Travel in our Vehicles by at least 50%

STRATEGY 6:

Enhance the Resilience of Our People and Our Place

OTHER STRATEGIES:

This strategy covers the remaining programs and activities that don't fit into other areas. It also includes greenhouse gas emissions offsets to close out any



- 1. Community Choice Aggregation
- On-Site Renewable Energy Generation with Battery Storage (Bulk Buys)
- 3. Community Solar Program
- 4. Landfill Solar Project
- Home and Business Electrification Policies and Support
- 6. Electrify Buses
- Support Community Electric Vehicle and Solar Bulk Buys
- 8. Electrify City Fleet
- 9. Electrify Private Fleet
- **10.** Expansion of Electric Vehicle Charging Infrastructure
- 11. Support Transition to More Energy Efficient Homes and Businesses
- 12. Update Building Codes
- **13.** LED Powered Streetlights and Traffic Signals
- 14. Energy Disclosure / Benchmarking
- 15. Loan Loss Reserve

- 16. Energy Concierge and Community Education
- 17. Net Zero Energy prodable Housing
- 18. Green Busine enge
- 19. Green Renta Program
- 20. Aging in Pla
- 25. Incre Rides and Transit
- 26. Ing
- 27. Meighborh
- 28. Parking Rates
- 29. Apansion of Composting Program
- 30. Expansion of Commercial Recycling
- 31. Require Sustainable Materials in New and Existing Developments

- 32. Move Toward a Circular Economy
- 33. Support a Plant Rich Diet
- 34. Enhance Refrigerant Recycling and Reuse Program
- 35. Invest in Resilience Hubs
- 36. Foster Neighborhood and Youth Ambassadors
- 37. Preserve & Enhance Local Tree Canopy
- 38. Conduct Asset and Needs Mapping of Neighborhoods
- 39. Assist in Assembling and Disseminating Emergency Preparedness Kits
- 40. Implement Sensors to Monitor Heat, Air Quality, Waterways, and Flooding
- 41. Equity Programs
- **42.** Sustaining Ann Arbor Together Grant Program
- 43. Internal Carbon Price
- 44. Greenhouse Gas Emissions Offsets



18/44 Actions will be complete or near complete in 2025!

- 1. LED Powered Streetlights and Traffic Signals
- 2. Energy Disclosure / Benchmarking
- 3. Energy Concierge and Community Education
- 4. Green Business Challenge
- 5. Aging in Place Efficiently
- 6. Building Code Requirements
- 7. Green Rental Housing Ordinance
- 8. Net Zero Energy Affordable Housing
- 9. Weatherization Expansion
- 10. Implement Non-Motorized Plan
- 11. Mixed-Use Neighborhoods
- 12. Commercial Recycling
- 13. Refrigerant Recycling
- 14. Foster Neighborhood and Youth Ambassadors
- 15. Preserve & Enhance Local Tree Canopy
- 16. Implement Sensors to Monitor Heat, Air Quality, Waterways, and Flooding
- 17. Equity Programs
- 18. Sustaining Ann Arbor Together Grant Program



A Look Back – Renewable Energy



- Voter authorization of the Sustainable Energy Utility! SEU design and launch underway.
- Installed over 600kw of rooftop and ground mounted solar at City facilities
 - Lots more in design or nearing construction
- Solarize nearing 5.5MW!
- Geothermal installed at Bryant
- Initiated Citywide geothermal study
- Won award to construct a networked geothermal system in Bryant
- Achieved 70% renewable electricity at City facilities
- Submitted testimony in multiple cases before MPSC
 - Saved ratepayers over \$1,000,000,000 through interventions







A2ZERO
EQUITABLE - SUSTAINABLE - TRANSFORMATIVE

Signed the nation's first heating franchise to include a climate commitment

Nearing 40% electrification of City's light duty fleet

Launched A²ZERO Heat Pump Concierge

Launched local home energy rebate program

Launched electric lawn care rebate program

Launched EV charger discount program for multi-family sites

Supported Avalon Housing with electrification of two sites

Supported zero emissions propulsion study and successful grant application at TheRide

Installed geothermal at Bryant Community Center

Hosted 3rd annual electrification expo





A Look Back - Efficiency

Bringing forward Green Rental Housing ordinance

Supported the adoption of Michigan building and energy codes

Launched Green Business Challenge

Continued scaling Home Energy Advisor (concierge)

Implementation of energy and water benchmarking ordinance

Over 700 homes completed HES scores through HERD

Supported weatherization expansion programming with County

Collaboration with 2030 District!

Increased rebate amounts for Home Energy Rebate program

Significant advancements of energy efficiency work in the Bryant neighborhood



A Look Back – Mobility



 Funded more bike lanes and sidewalks



Supporting
 Comprehensive
 Land Use Plan
 update



 Supported reintroduction of bike share and borrow a cargo bike







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Hosted 3rd annual Local Food Fest

A²ZERO Food waste challenge helped over 540 Ann Arborites fight household food waste

Sustained and grew Sustainable Food Business Coalition

Reached over 1,7000 residents through collaboration with VegMichigan

Completed draft of a Ann Arbor Sustainable Food Framework

About to launch A2ZERO Community Cookbook

Launching circular economy planning initiative

Won grant for refrigerant recycling and replacement program

Launched electronic takeback events

Neighborhood swap days continue to grow and scale

Expanded commercial recycling – working on composting







Purchased Sesame Solar unit
Won \$1,000,000 USFS grant for tree planting in underserved areas
Initiated tree survival study
Air quality monitoring goal met
Pollinator-Aware Yard Care
Designing fourth and fifth resilience hubs
Emergency kid distribution and planning

Collaborated with Avalon on emergency

preparedness working group

Senior Center is City's third resilience hub

Graduated 6th A²ZERO cohort – 100 Ambassadors. In 7th cohort

Joined heat resilience cohort

Cohosting Washtenaw Resilience Network

Won \$1,000,000 for regional resilience network





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A Look Back – Engagement

Continued grants through Sustaining Ann Arbor Together program

Won national AmeriCorps program

Sponsored and hosted first Cinema and Sustainability film series

Held over 200 public events

Grew the A2ZERO Collaborators Networked

Held 4th annual A2ZERO Week

Green Fair, Summerfest and more!



A Look Forward



- Sustainable Energy Utility initiation
- Green Rental Housing ordinance
- Circular Economy strategy
- Sustainable Food strategy
- Returnable Container work circularity commons?
- Emergency preparedness planning and support
- 2 more resilience hubs
- So much more!



A²ZERO and You!



















THANK YOU

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