

HOME ABOUT

CONTACT

NEWSLETTER MEETINGS

BOARD MEMBERS

MORE

Orchard Hills-Maplewood Homeowners

Association (OHMHA) in Ann Arbor, M

We hope you are taking good care of yourselves, your families, friends, and neighbors. The some useful local information regarding COVID-19: https://www.nixonarea.org

Area Alliance has put together ex.php/covid19/.



A²ZERO and You

Orchard Hills-Maplewood Homeowner's Association September 14th, 2020

Presentation Outline

- 1. Introduction to A²ZERO
- 2. Your Priorities
- 3. Opportunities for Engagement
- 4. Next Steps and Discussion



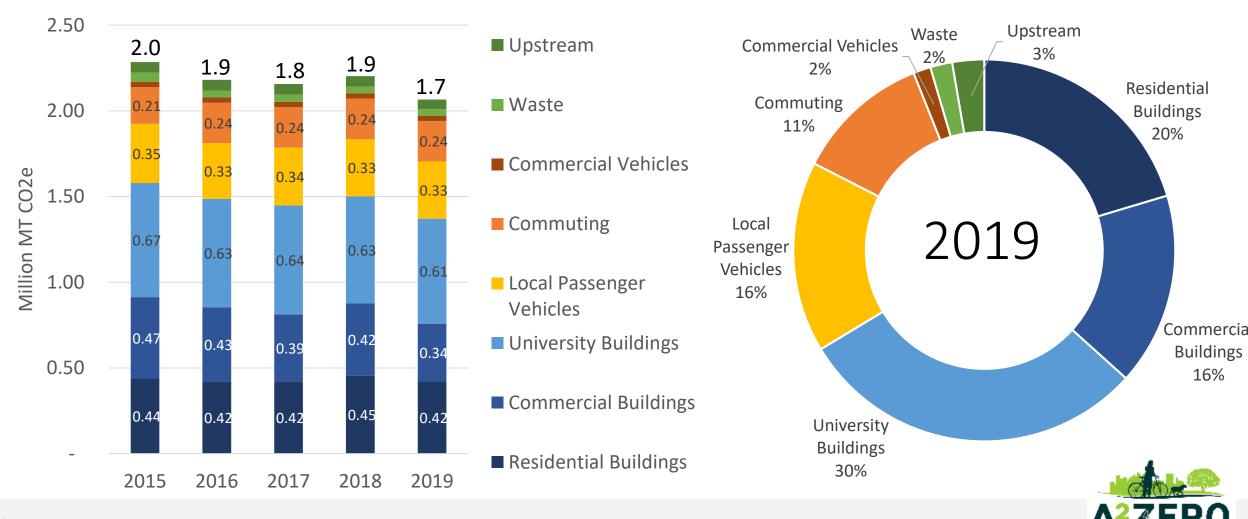
A²ZERO VISION



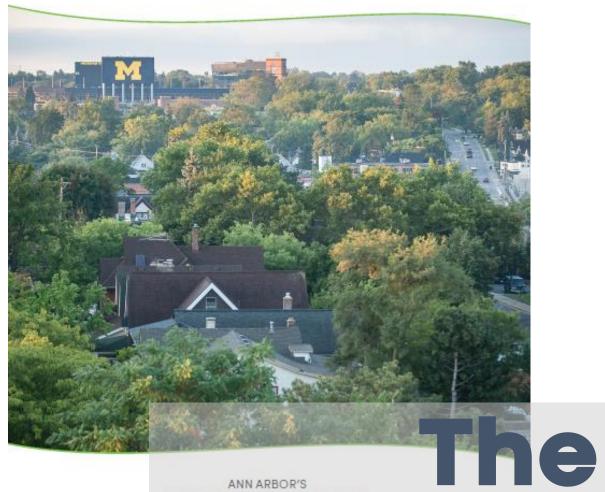
Together, creating and implementing a just transition to carbon neutrality by the year 2030.



Expanded Inventory by Sector







ANN ARBOR'S LIVING CARBON NEUTRALITY PLAN MARCH 2020

ACTION SUMMARY TABLE

	Total Costs	GHG Reduction	Stotal emissions	\$/ten	Co-Bonefi
Community Choice Aggregation	\$3,245,000	784,000	35.8%	\$4	
Bulk Purchase of Renewables	\$605,000	85,000	3.9%	\$7	Coming
Community Solar Program	\$205,000	11,500	0.5%	\$18	Soon
Landfill Solar Project	\$80,000	23,000	1.1%	\$3.5	
Electrification	\$7,100,000	362,200	16.5%	\$ 20	
Electrify All Buses	\$80,575,000	13,800	0.6%	\$ 5,839	
Bulk Purchase EVs	\$700,000	122,900	5.6%	\$6	Coming
Private EV Fleets	\$123,000	0	0.0%		Soon
City EV Fleet	\$4,000,000	1,100	0.1%	\$3,636	
EV Infrastructure	\$42,000,000	0	0.0%		
Bulk Purchase of Energy Efficiency	\$7,100,000	242,500	16.5%	\$4	
Building Code Requirements	\$80,575,000	48,300	0.6%	\$ 40	
LED Lighting	\$700,000	2,600	5.6%	\$1,208	
Benchmarking	\$123,000	0	0.0%		
Loon Loss Reserve	\$4,000,000	0	0.0%		
Energy Concierge & Community Education	\$42,000,000	0	0.0%		Coming
Net Zero Energy Affordable Housing	\$800,000	400	0.0%	\$2,000	Soon
Green Rental Housing Program	\$530,000	0	0.0%		
Green Business Challenge	\$700,000	0	0.0%		
Aging in Place Efficiently	\$150,000	0	0.0%		
Weatherization Expansion	\$1,550,000	0	0.0%		
Non-Motorized Plan	\$3,245,000	60,400	2.8%	\$40	
Expand Local and Regional Transit	\$605,000	93,200	4.3%	\$7047	
Park and Ride	\$205,000	28,400	1.3%	\$5,986	Coming
Duples/Triples/ADUs	\$80,000	2,200	0.7%	\$114	Soon
Mixed-Use Zoning	\$365,000	0	0.0%		
Parking Rates	\$4,500,000	0	0.0%		
Year Round Compositing	\$26,000,000	400	0.1%	\$65,000	
Expand Commercial Recycling	\$18,400,000	5,600	0.3%	\$3,286	
Sustainable Material Use and Reuse	\$270,000	0	0.0%		Coming
Circular Economy	\$270,000	0	0.0%		Soon
Plant-Baxed Diets	\$208,400	0	0.0%		
Refrigerant Recycling	\$179,400	0	0.0%		
Resilience Hubs	\$5,025,000	2,500	0.1%	\$2,010	
Neighborhood and Youth Ambassadors	\$350,000	0	0.0%		
Tree Canopy	\$1,160,000	450	0.0%	\$2,578	Coming
ideor Asset Mapping	\$300,000	0	0.0%		Soon
	\$350,000	0	0.0%		
	\$300,000	0	0.0%		
equity Pr ma	\$200,000	0	0.7%		
SA2T Gre ogro	1,000,000	0	0.0%		Coming
Internal Carbon Tax	\$75,000	0	0.0%		Soon
Offsets	\$9,440,000	298,500	13.6%	\$32	
Total	\$1,056,403,800	2,155,950	100.0%		



A²ZERO STRATEGIES

STRATEGY 1:

Power Our Electrical Grid with 100% Renewable Energy

STRATEGY 3:

A And And Street, or

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

A REAL AND A

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



THE ACTIONS

- 1. Community Choice Aggregation
- 2. On-Site Renewable Energy Generation with Battery Storage (Bulk Buys)
- 3. Community Solar Program
- 4. Landfill Solar Project
- 5. Home and Business Electrification Policies and Support
- 6. Electrify Buses
- 7. 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

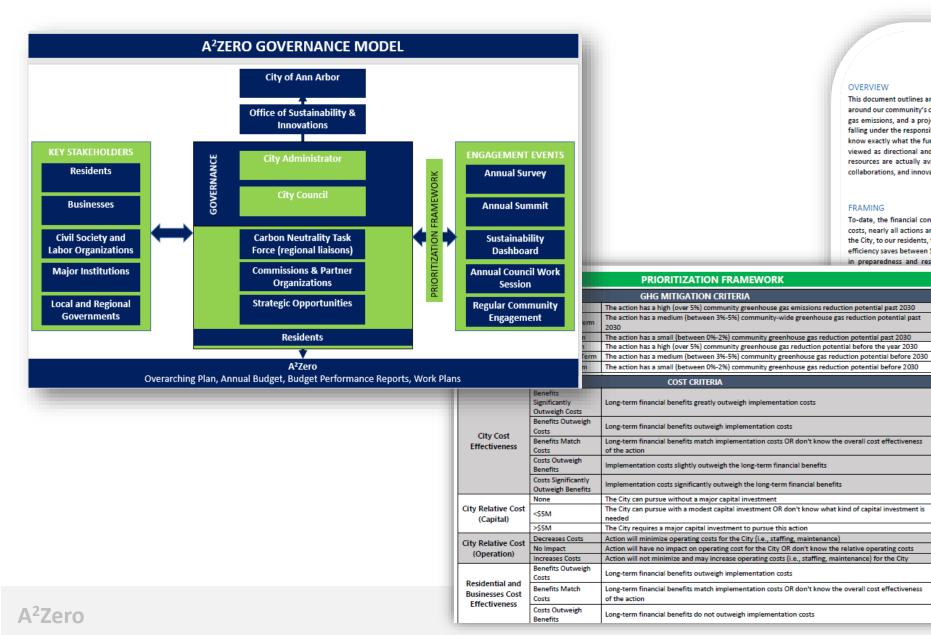
- 16. Energy Concierge and Community Education
- 17. Net Zero Energy Affordable Housing
- 18. Green Business Challenge
- 19. Green Rental Housing Program
- 20. Aging in Place Efficiently
- 21. Expansion of Weatherization Program
- 22. Implement Non-Motorized Plan
- 23. Expand and Improve Local Transit
- 24. Expand and Improve Regional Transit
- 25. Increase Number of Park and Rides and Ensure Seamless Connection to Transit
- 26. Increase Housing Opportunity
- 27. Mixed-Use Neighborhoods
- 28. Tiered Parking Rates
- 29. Expansion 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



A²Zero

SUPPORTING DOCUMENTS



A²Zero Investment Plan

OVERVIEW

This document outlines an investment approach for the A²Zero Carbon Neutrality Plan. It includes an alternative framing around our community's commitment to carbon neutrality, a look at the historical impact of our community's greenhouse gas emissions, and a projected investment scenario, highlighting investments and costs specific to actions identified as falling under the responsibility of the City of Ann Arbor, and a presentation of the cost of inaction. As there is no way to know exactly what the funding landscape will look like 10 or 11 years into the future, the investment scenario should be viewed as directional and only one possible scenario of what the future may look like. Many things will inform what resources are actually available to do this work and staff will continue to aggressively pursue funding opportunities, collaborations, and innovative financing mechanisms to lower the upfront cost to the city and our residents.

FRAMING

To-date, the financial conversation around A²Zero has focused on the costs to implement the plan. While there will be costs, nearly all actions are investments. What this means is that investing in nearly all of the actions return benefits to the City, to our residents, to our businesses, or to society as a whole. As illustration, data shows that \$1 invested in energy efficiency saves between \$4 and \$5 in energy costs (DTE's figures are closer to \$5).^{1,2} Moreover, every one dollar invested in preparedness and resilience shows a return on investment of \$7 in avoided costs.³ Onsite renewable energy

e a payback of 10-12 years but are warranted for 25 years meaning 13-15 years of ric vehicle is at least 50% less than an internal combustion engine.⁵

order to create an opportunity or to reduce future costs. In much the same way, r to make an investment in our community. A²Zero is a proposal to spend money ommunity's greenhouse gas emissions and thereby eliminate future social costs of its, businesses, and the surrounding area which will more than pay back the initial

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Scoring

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Scoring

It together a projected investment scenario for A²Zero. There are many possible d be funded so the attached document should be viewed as one possible scenario. ario should be considered directional as it is impossible to know what types of r public-private partnership may exist for all 7 strategies identified in the Plan over the plan were modeled using today's dollars. It is highly likely, however, that main some of the costs within the plan.



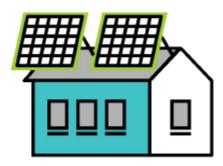


YOUR PRIORITIES









Neighborhood based bulk-buy solar opportunity

Gather friends, neighbors, colleagues, community members together to learn about solar and have the opportunity to purchase solar in bulk-buy, with discounts due to volume





HOW IT WORKS

Installers are pre-vetted by and participate with Michigan Saves green bank for low-interest financing



Offer bulk buy discounts based on numbers:

- 5% discount if 3+ new arrays
- 10% discount if 7+ new arrays
- 15% discount if 10+ new arrays



SMALLER SAMPLE INSTALLATION

- A home in Burns Park equipped through Solarize
- 3.84 kW, 12 panels
- BEFORE discount and tax credit: ~\$14,500
- AFTER discount and tax credit: ~\$8,700
- Price includes design, consultation, materials, labor, permits, and utility paperwork
- Pay-off timeframe: 9 years





Sustaining Ann Arbor Together (SA2T Grant)



- SA²T is a neighborhood grant program intended to promote and resource community-based activities in support of City's sustainability goals
- SA²T helps neighborhood groups develop, resource, and complete small-scale improvement projects in the city's rights-of-way or on publicly owned property, including Ann Arbor Public School property.
- The targeted grant amount is less than \$10,000 (excluding neighborhood contributions); however the city will accept applications for larger projects on a case-by-case basis. The total annual grant program funding is \$100,000.



Project Name	Scope	Responsible Entity	Total Cost	SA ² T Grant
New Wings for Old Bikes	Repurposing old bikes with in- need community members	Common Cycle	\$13,700	\$10,000
Building Stock Analysis	Conducting baseline energy and water assessment of all commercial buildings in 2030 District	Ann Arbor 2030 District	\$13,600	\$4,600
Capacity Building and Job Corps Training	A job corps training program for at-risk young adults	Neutral Zone	\$26,450	\$10,000
Solar Power Curriculum for K-8	Solar curriculum development for K-8 and a solar installation	Northside STEAM	\$25,352	\$10,000
A-Z Recycling Guide Becomes Zero Waste Guide	Development of a zero-waste guide and accompanying website	Recycle Ann Arbor	\$9,662	\$6,450
Natural Play Area	Installation of new, natural paly area at a local elementary school	Ann Arbor Public Schools	\$175,663	\$10,000
Recuperative Care and Housing Crisis Stabilization Specialized Shelter Programs	Equipment and supplies to operate Recuperative Care programs and offer a welcoming temporary shelter that fits clients' needs.	Shelter Association of Washtenaw County	\$15,000	\$10,000



A²ZERO Ambassadors



Course Mission: Engage with, educate, and empower interested Ann Arborites on ways to enhance individual and neighborhood climate action and sustainability.



Expectation for A²ZERO Ambassadors: Learn about the various ways the City and its residents can advance sustainability and carbon neutrality and then operationalize that information to become a formal ambassador of carbon neutrality in the community.

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All Ambassadors will be asked to attend an 8-week training course, support implementation of a community project that advances of that advance sustainability, and conduct at least 20 hours of additional volunteer work in support of community sustainability and carbon neutrality (i.e., speak at events, talk to neighbors and peers, host community learning sessions, lead local projects).





A²ZERO Ambassadors

Introduction to sustainability, environmental justice, and equity

Energy efficiency, energy electrification and renewable energy

Water efficiency, water quality, stormwater, and our watershed

Transportation and our choices about moving around our community

How to get to a circular economy: waste reduction, composting, recycling, sustainable purchasing, and material reuse

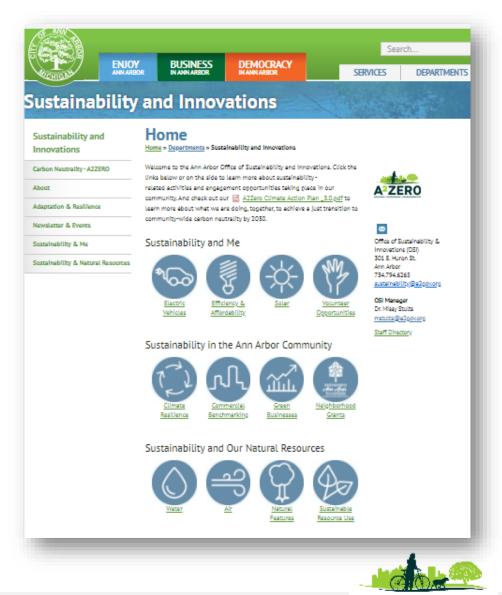
Local food: how to grow it, eat it, and find it

Personal and community resilience and emergency preparedness

Tying it all together: A²ZERO and You

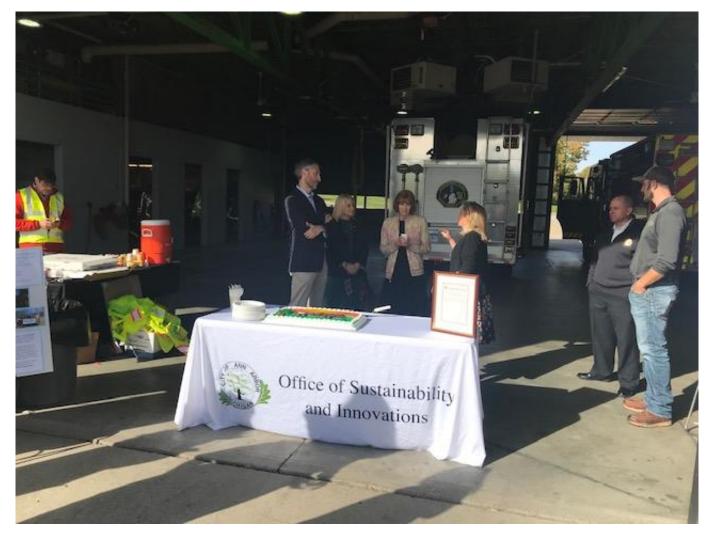
OTHER WAYS TO ENGAGE

- Website redesign
- Established quarterly newsletter
- Launched YouTube Channel in partnership with CTN
- Bicycle group discount
- Community Outreach:
 - Resilience
 - Energy Kits
 - Emergency Preparedness
 - Other?



OTHER WAYS TO ENGAGE

- A²ZERO Survey
- Aging in Place Efficiently
- Nominate folk for award/recognition
- Beneficial electrification and efficiency





NEW 10,000 TREES INITIATIVE







Thank You mstults@a2gov.org

