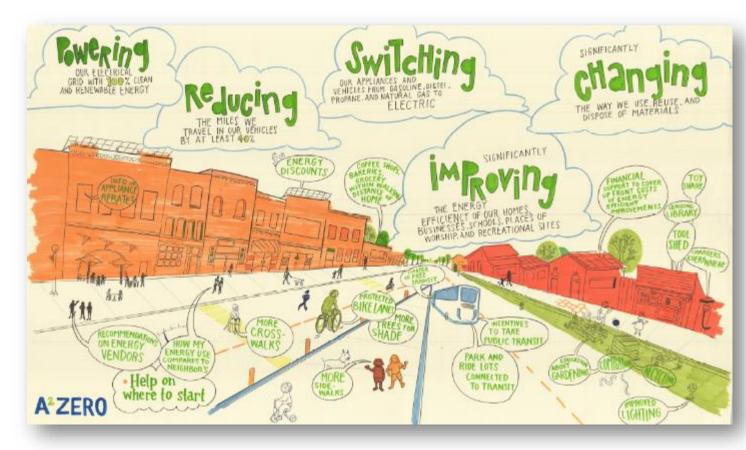
# EQUITABLE • SUSTAINABLE • TRANSFORMATIVE





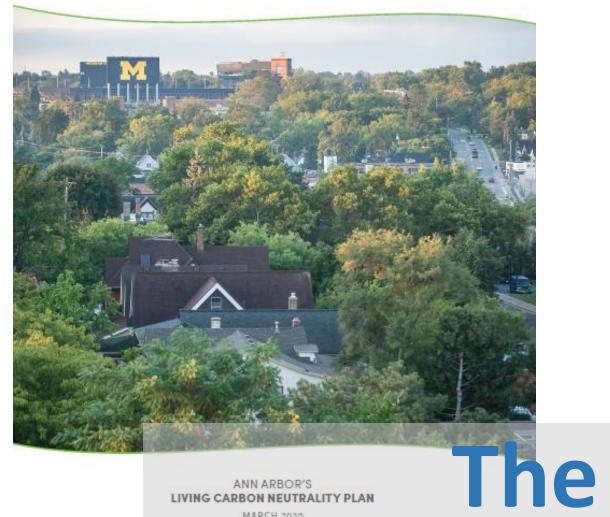
## A<sup>2</sup>ZERO Vision

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









ANN ARBOR'S LIVING CARBON NEUTRALITY PLAN MARCH 2020

#### **ACTION SUMMARY TABLE**

	Total Costs	<b>GHG Reduction</b>	Notal emissions	\$/ten	Co-Benefi
Community Choice Aggregation	\$3,245,000	784,000	35.8%	\$4	
Bulk Purchase of Renewables	\$605,000	85,000	3.9%	\$7	Coming Soon
Community Solar Program	\$205,000	11,500	0.5%	\$18	
Landfill Solar Project	\$80,000	23,000	1.1%	\$3.5	
Electrification	\$7,100,000	362,200	16.5%	\$ 20	Coming Soon
Electrify All Buses	\$80,575,000	13,800	0.6%	\$ 5,839	
Bulk Purchase EVs	\$700,000	122,900	5.6%	86	
Private EV Fleets	\$123,000	0	0.0%		
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%	84	
Building Code Requirements	\$80,575,000	48,300	0.6%	9.4 8.40	Coming Soon
LED Lighting	\$700.000	2.600	5.6%	540	
Benchmarking	\$700,000	2,600	0.0%	\$U.06	
Loan Loss Reserve	\$4,000,000	0	0.0%		
Energy Concierge & Community Education	\$42,000,000	0	0.0%		
Net Zero Energy Atfordable Housing	\$800,000	400	0.0%	\$2,000	
Green Rental Housing Program	\$530,000		0.0%	92,000	
Green Business Challenge	\$700,000	0	0.0%		
Aging in Place Efficiently	\$150,000	0	0.0%		
Weatherization Expansion	\$1550,000	0	0.0%		
		_		A.10	
Non-Motorized Plan	\$3,245,000	60,400	2.8%	\$40	Coming Soon
Espand Local and Regional Transit	\$605,000	93,200	4.3%	\$70.47	
Park and Ride	\$205,000	28,400	1.3%	\$5,986	
Duples/Triples/ADUs	\$80,000	2,200	0.7%	\$114	
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	Coming Soon
Expand Commercial Recycling	\$18,400,000	5,600	0.3%	\$3,286	
Sustainable Material Use and Reuse	\$270,000	0	0.0%		
Circular Economy	\$270,000	0	0.0%		
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	\$3:50,000	0	0.0%		
Tree Canopy	\$1,160,000	450	0.0%	\$2,578	Coming
Neighborhood Asset Mapping	\$300,000	0	0.0%		Soon
Emergence Kits	\$3:50,000	0	0.0%		
eora d Data Monitoring	\$300,000	0	0.0%		
E y E rat	\$200.000	0	0.7%		
	\$1,000,000	0	0.0%		Coming
Internal rbs as	\$75,000	0	0.0%		Soon
Offsets	\$9,440,000	298,500	13.6%	\$32	C DOIN
Total	\$1.056,403,800	2,155,950	100.0%	the second s	



### A<sup>2</sup>ZERO STRATEGIES

#### **STRATEGY 1:**

Power Our Electrical Grid with 100% Renewable Energy

#### **STRATEGY 3:**

CLARKER BALL

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



### **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

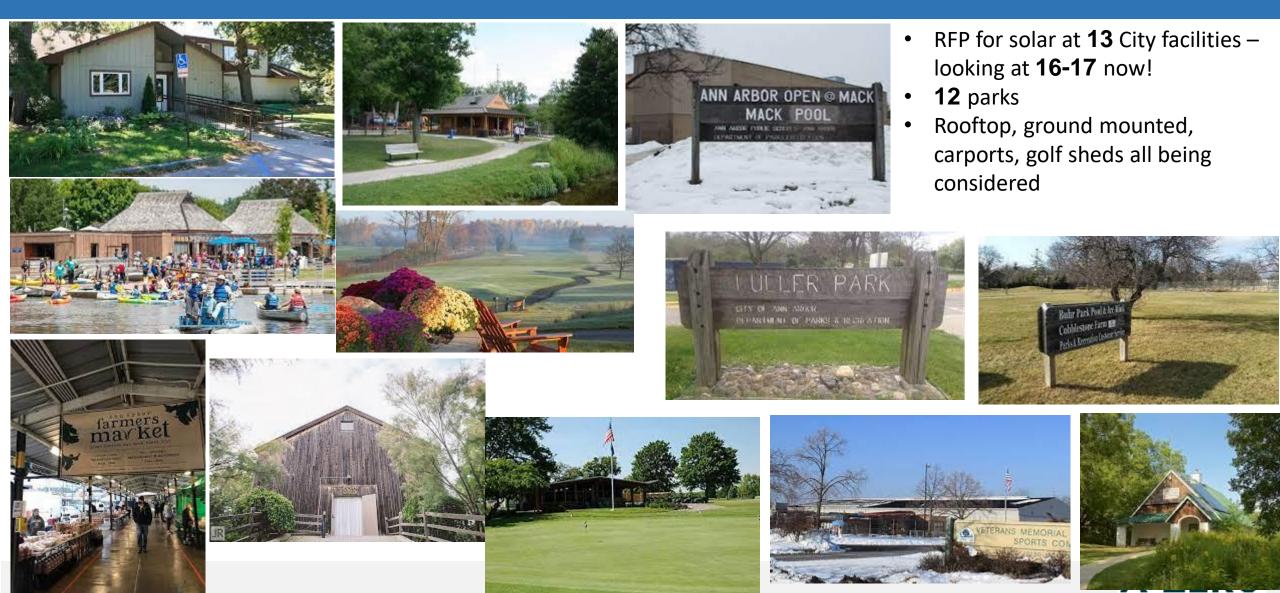
- 16. Energy Concierge and Community Education
- 17. Net Zero Energy Affordable Housing
- 18. Green Business Challenge
- 19. Green Rental Housing Program
- 20. Aging in Place Efficiently
- 21. Expansion of Weatherization Program
- 22. Implement Non-Motorized Plan
- 23. Expand and Improve Local Transit
- 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



#### A<sup>2</sup>ZERO

### Solar at City Facilities



EQUITABLE - SUSTAINABLE - TRANSFORMATIVE

### Solar at City Facilities

#### Process

- Finalize designs and costing summer / fall
- Seek approval from Council to install fall
- Installations begin fall through spring/early summer 2022







# Thank You mstults@a2gov.org

