

TABLE OF CONTENTS

- THE GUIDING GOALS
- THE (LIVING) PLAN
- FUNDING & NEXT STEPS



THE GUIDING GOALS

- 100% Clean and Renewable Energy Powering Municipal Operations
- 25% Reduction in Community-Wide Emissions by 2025
- 90% Reduction in Community-Wide Emissions by 2050
- One Community: Advancing Racial Equity in Washtenaw County



Ann Arbor Is the Most Sustainable and Equitable City in America!



THE (LIVING) PLAN

Energy Efficiency

Renewables

Education & Engagement

EVs

Cross-Cutting



Green Rental Housing

Implement a program and associated policy for residential rental properties requiring property owners to meet a minimum efficiency standard before receiving their rental licenses.





Green Rental Housing: By the Numbers

Ann Arbor Impacts and Costs

Cost to the City to Implement Over 3 Years	Annual Energy Bill Savings	Annual Energy Savings	Annual CO2 Reductions	
i 긎		5	iii	
\$331,000	\$5.1 - \$15.2 million	358 – 1,075 Billion Btus	68.8 – 206.3 million lbs CO2e	

Note: Range is based on 10-30% energy savings assumption over existing conditions

Aging in Place Efficiently
Work with local partners to ensure that residents can age in place in energy efficient, and healthy residences.



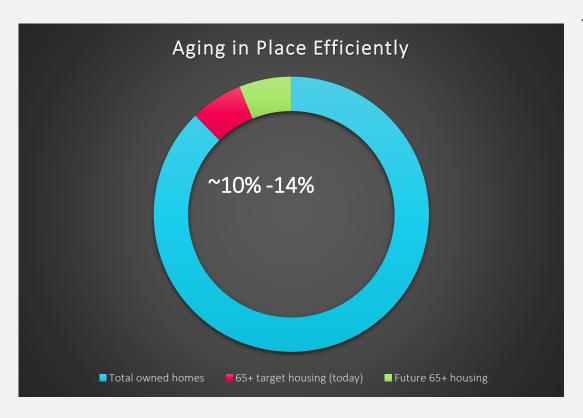




Aging in Place Efficiently: By the Numbers



Vital Seniors Program – Ann Arbor Area Community Foundation



Two year pilot program:

- 15-20% increases in efficiency in senior residences
- Pursuing grants to fund ¾ of the program costs
- Partnership opportunities
- National expansion potential

Time of Marketing

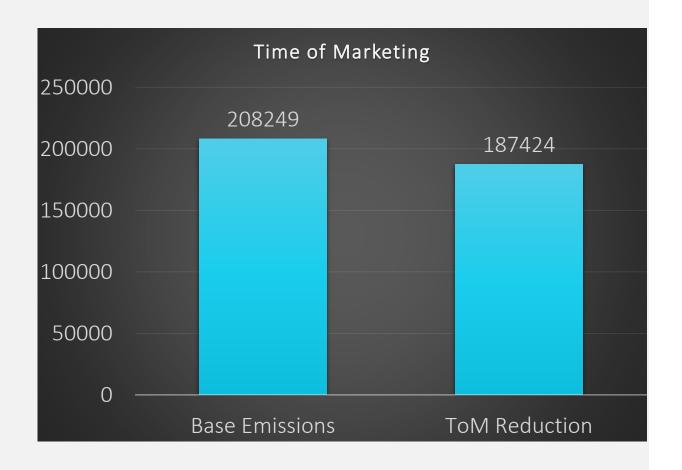
Require sellers of a single-family home to obtain and disclose the findings of a Home Energy Score





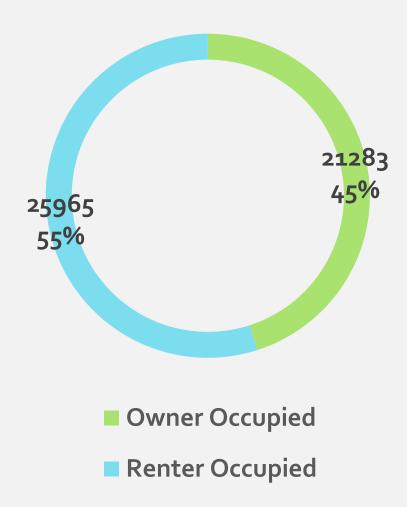
Time of Marketing: By the Numbers

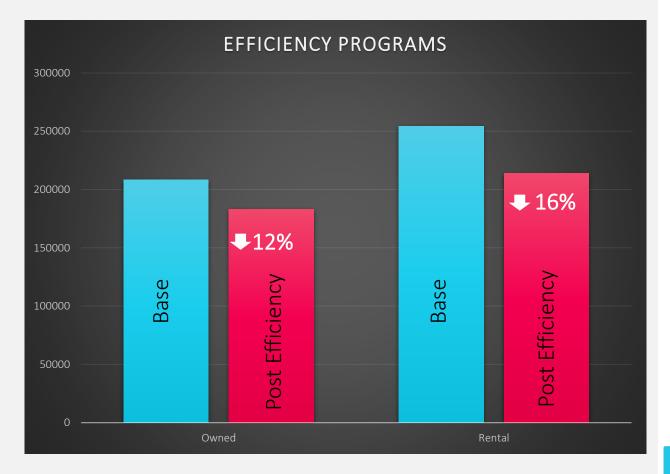
Through disclosure and access to efficiency upgrade opportunities, including financing options, this program could achieve a 10% energy reduction.



Efficiency Programs: By the Numbers

Owned vs Rented







DRAFT

Net Zero Affordable Housing

Use a combination of solar systems and energy efficiency to reduce GHG emissions of our affordable housing units to 0

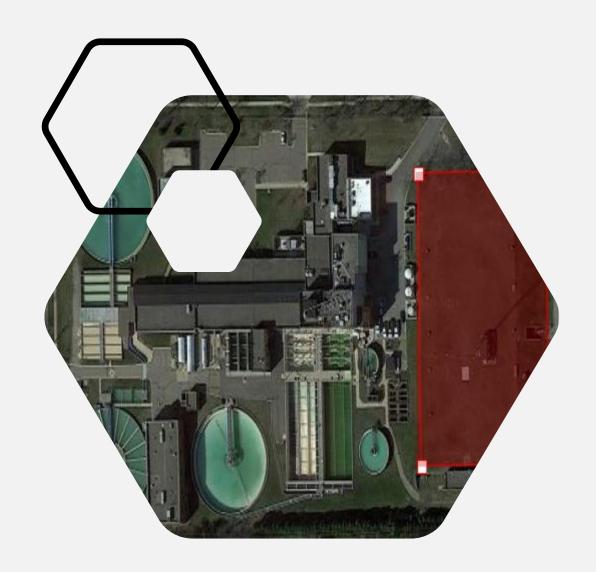
LOCATION	SOLAR CAPACITY		
Broadway Terrace	45		
Green Baxter Court	57		
Hikone	47		
Hillside Manor	17		
Lower Platt	13		
Maple Meadows	49		
West Arbor	100		
Oakwood	6		
South Seventh	18		
Upper Platt (Colonial Square)	20		
West Washington	5		
White/State/Henry	45		
TOTAL	422 kW		



100% Clean & Renewable Municipal Operations

Clean & Renewable Energy = Energy whose generation is associated with little to no pollution and is generated from an unlimited source

- Energy Efficiency Upgrades
- Electrifying Equipment where possible
- Use electricity generated from renewable sources onsite and offsite
- Greening the City fleets
- Changing criteria for how we invest & budget



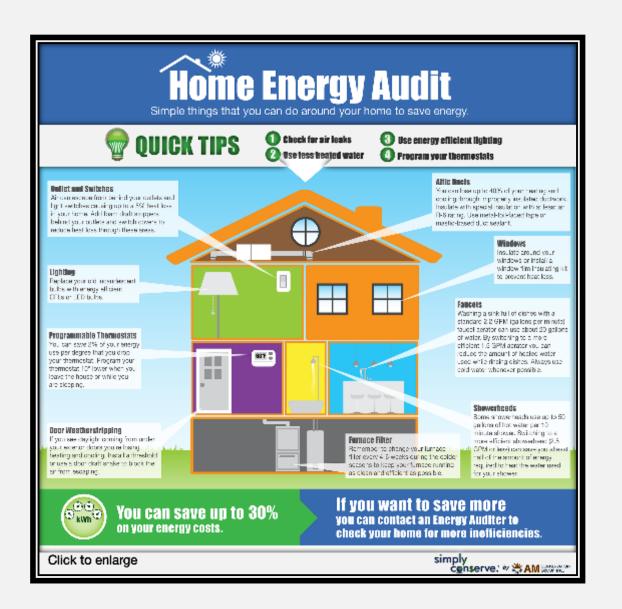
Solar Faithful

- US Department of Energy program promotes solar on non-profits.
- The City partnered with Michigan Interfaith Power & Light for outreach
- Goal = 25 kw of solar on Houses of Worship
- Long term goal = promote adoption of solar on non-profits & schools
 - We used Power Purchase Agreement
- Grand prize of \$100,000 to continue program



Efficiency & Solar in the Community

- Work with Energy & Community Solar providers to:
 - Educate
 - Reduce regulatory challenges
 - Navigate the landscape
 - Support installation
- Refine City's role
 - Education (yes)
 - Fundraiser (sometimes)
 - Collaborate (yes)
 - Concierge (not sure)
 - Other?



Local Offset Program

Mayor Unveils First-ever Local Carbon Offset Program

News by Topic

Energy

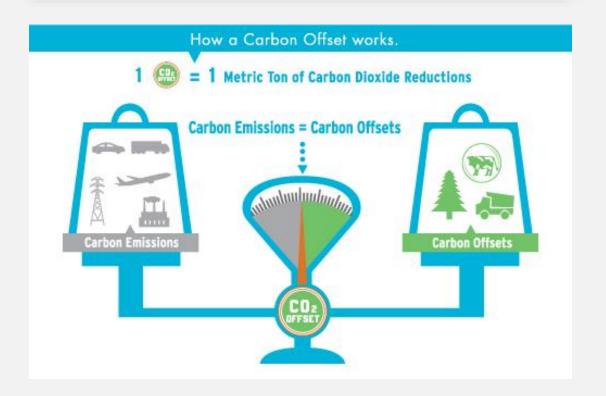
Transportation Zero Waste

Toxics & Health

Buildings & Environments Mayor Unveils First-ever Local Carbon Offset Program

(December 18, 2007)

Residents will be able to buy carbon offsets that directly benefit San Francisco







Sustaining Ann Arbor Together

SA2T neighborhood grant program promotes and supports community-based activities in support of the goals of the City's Sustainability Framework, especially equity. The City has budgeted \$100,000 annually for this program.



Community Outreach

Conducting sustainability-related outreach and educational activities with Ann Arbor residents and businesses.

- 8th year of Sustainability Forums in partnership with AADL (4 Forums in Jan-April 2019)
- Continuing outreach at events (Green Fair, Earth Day, Scouts Badge day, etc.)
- GovDelivery email blasts (2,050 subscribers)
- Sustainability Corner in A2 Newsletter for residents
- Educating City employees (Lunch and Learns, A2 News and Notes, etc.)
- Public Coffee Hours
- Commission Support



Resilience

Fostering Resilience One Neighborhood At A Time

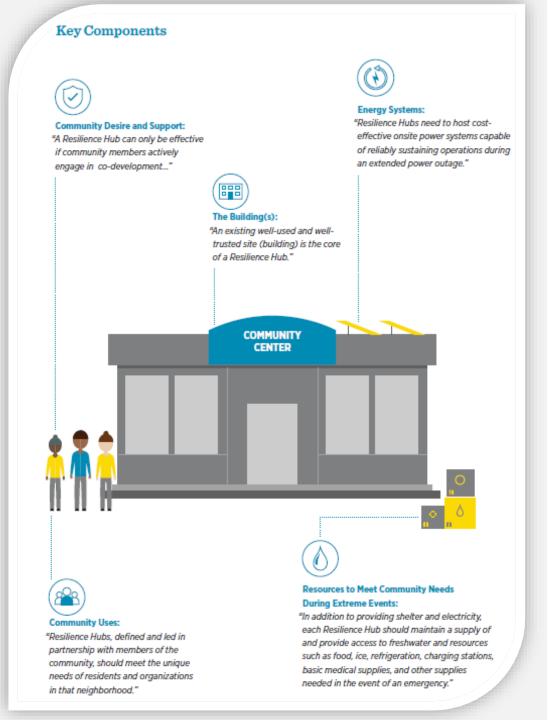
Resilience Hubs

- Neighborhood-based locations that support existing community needs while also fostering resilience in the face of a disaster.
- Being piloted around the nation.
- Partnership with community and community-based organizations
 - Community driven and supported
- Seeking grant funding

Rain Ready

- Help reduce local flood risk
- Done in tandem with Stormwater







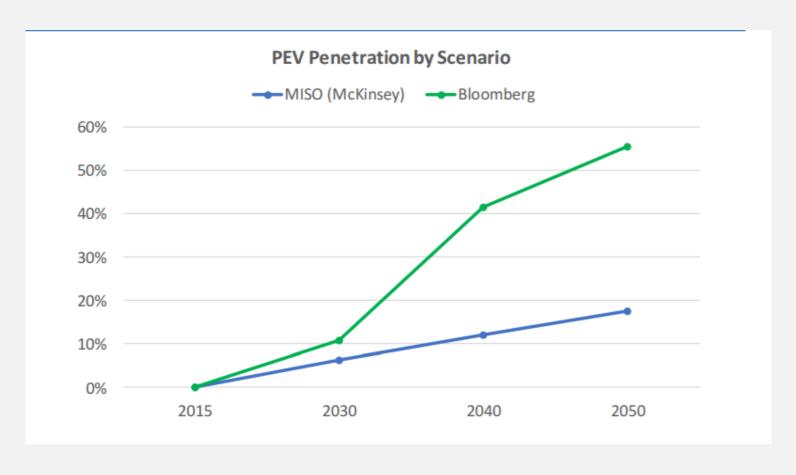
OVERVIEW

Promote the adoption of electric vehicles by residents, businesses, organizations, and the City:

- Investigate an EV car sharing program for A2 Housing Commission residents.
- Workplace Charging Challenge
- Help multifamily housing install EV charging
- Investigate new and off-lease EV group buy
- Add EVs to the City fleet through Green Fleets Policy
- Encourage new EV charging in parking garages and lots
- Outreach to the general public



Electric Vehicles: By the Numbers







Internal Coordination

Human Resources





Community Services



Safety



Communication



Clerk's Office





Public Safety

Public Services



Financial Services



Strategic Engagement: Internally

Budgeting and CIP integration

Transportation

- Integrating GHG emissions and potential reductions into planning & decision making
- Idling abatement
- Electrification of systems
- Efficient lighting for pedestrian safety

Planning

- Smart land use planning and TOD
- Onsite storm water management
- Lighting Ordinance





Strategic Engagement: Community

Work with local non-profits, philanthropy, and other local governments to design sustainability programs that work for Ann Arbor and the broader region (e.g., Aging in Place Efficiently)



Leverage student and faculty expertise and interests to create practical sustainability initiatives that further city goals while supporting students and faculty development. (e.g., a City Studio)



Strategic Engagement: Utility

MI Green Power

- Share city data to help DTE implement core programs and new pilots (e.g., efficiency upgrades in rental units)
- Collaborate on renewable energy construction and purchasing (possible renewable installations in A2)
- Continue to put pressure on the market to move the needle on renewable installations

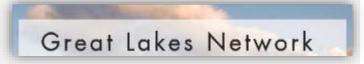




Strategic Engagement: Peer Communities

- Work with peer communities to develop new urban sustainability strategies, benchmark our progress, and scale promising practices in our and other communities
- MI-MAUI Tracking MPSC and rate case intervention opportunities













Innovation

How do we work with private partners, the university, non-profits, and others to create a true innovation hub?

How do we make Ann Arbor a test bed for innovation?





5 Years; 5 Challenges Facing Southeastern Michigan





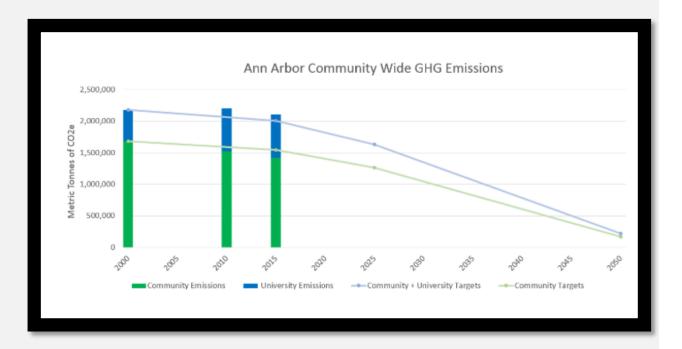






Metrics

- SMART Metrics
 - S = Specific: Who, What, When, Where, Why
 - M = Measurable
 - A = Attainable
 - R = Realistic
 - T = Time-bound
- Lagging and leading indicators
 - Progress is tracked on a regular basis with an eye towards corrective action where needed and changes to metrics where appropriate
- Metric Specific Endeavors
 - STAR, Sustainability Dashboard



FUNDING



Summary

- Energy Efficiency
- Renewables
- Education & Engagement
- EVs
- Cross-Cutting

	Council Priorities							
Programs	100% Clean & Renewable	90% Community GHG Reduction	One Community	Affordable Housing	Timeframe			
Green Rental Housing		X	X		Medium			
Aging in Place Efficiently		Х	Х		Medium			
Time of Marketing		X			Medium			
Net Zero Affordable Housing		Х	Х	Х	Short			
100% Clean and Renewable	X				Medium			
Solar Faithful		X			Short			
Efficiency & Solar in Community		X			Medium			
Local Offset Program		X	X		Medium			
Sustaining A2 Together		X	X		Short			
Community Outreach		X			Ongoing			
Resilience		X	X	X	Medium			
Evs in City Fleet	X				Short			
EV Readiness Ordinance	X	X	X		Medium			
EV Promotional Work		X			Ongoing			
Internal Coordination	X				Short			
Community Engagement		X	X		Ongoing			
Utility Engagement		X			Medium			
Peer Community Engagement		X			Ongoing			
Innovation	X	X	X	X	Long-Term			
Sustainability Grand Challenge	X	X	X		Medium			

Your Thoughts



ThankYou

"Greatest Main

Street in America"

"Most Well-Read Cities

in America"

Amazon.com . 2011

"25 Smartest

College Towns in US"

TravelandLeisure.com • 2012

"75 Best College

Towns and Cities"

American Institute for nomic Research . 2010

> "Best Cities in America to Find a Job"

US News + 2012

Best College Sports Town"

"Top Digital Cities"

Forbes - 2010

"Educational Attainment in Communities with 100,000+ Residents'

"Top Art Destinations"

American Style Magazine + 2011

PENNY W. STAMPS

'Most E-Literate Cities in the America"

Top 10 College Towns'

ANN ARBOR

by the numbers -

TheAtlantic.com

"10 Great Cities for

Raising Families" Kiplinger - 2010

CUBS

"Happiest Cities in America"

The Daily Beast . 2012

Most Creative Cities'

Forbes.com - 2010

"Best Places for Recent College Grads"

Dally Beast + 2011

"Most Educated Cities in US"

American Community Survey . 2010

100% Clean and Renewable: By the Numbers

