



A²ZERO

EQUITABLE • SUSTAINABLE • TRANSFORMATIVE

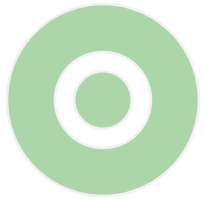
Key Criteria and Guiding Principles for Achieving Ann Arbor's Renewable Energy Goals Under A²ZERO



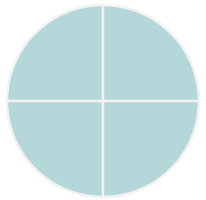
What is
proposed?

A series of core criteria and guiding principles:

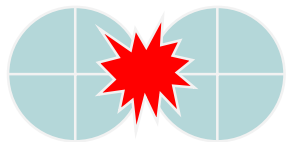
- Inform the emerging Energy Strategy to achieve A²ZERO
- Will guide efficiency investments and strategies for generating and purchasing renewable energy
- Grounded in the principles identified during A²ZERO planning



Criteria - requirements for all investments; any energy-related activities need to meet these criteria or clearly articulate why it was not possible to meet these criteria.



Principles –values the City holds; should be maximized, to the fullest extent possible, in decision-making.



Principles may, at times, be in conflict with one another.

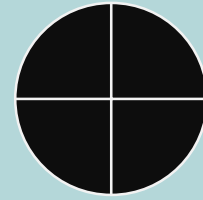
3 CORE CRITERIA



Reduction of
greenhouse gas
emissions

Additionality

Justice and equity



Resilient

Local

Speed

Scalable

Cost effective

5 GUIDING PRINCIPLES

CORE CRITERIA



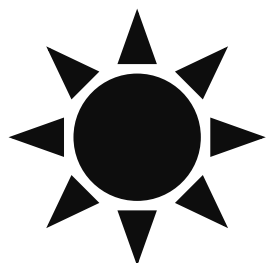


CORE CRITERION – REDUCTION OF GREENHOUSE GAS EMISSIONS

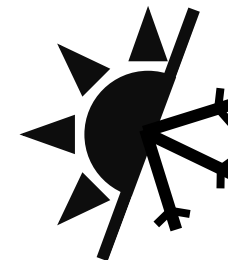
Solutions must reduce energy demand and/or power Ann Arbor's electricity needs with renewable energy that is as close to carbon neutral as possible.



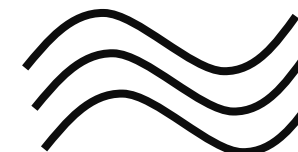
Energy Efficiency



Photovoltaic



HVAC Improvements



Hydroelectric



CORE CRITERION – ADDITIONALITY

Renewable energy projects and energy efficiency investments must be new, displace fossil fuel energy sources, and be additional to what would be done without our investment.

CURRENT ENERGY
INFRASTRUCTURE

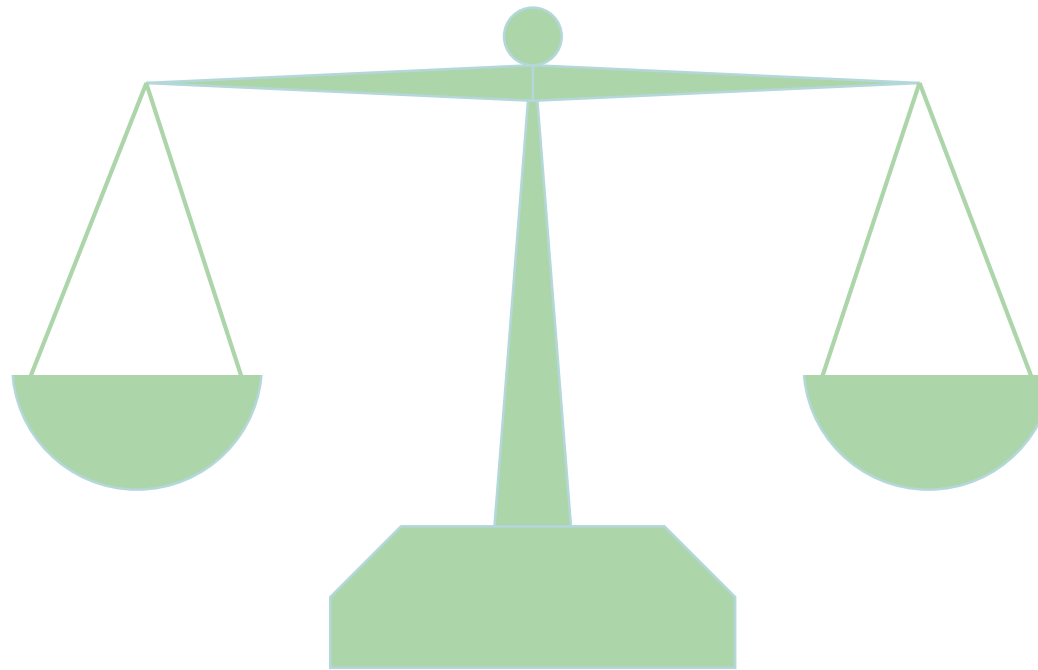


FUTURE ENERGY
PROJECTS AND
INVESTMENTS



CORE CRITERION – JUSTICE AND EQUITY

Strategies must be grounded in procedural and distributive equity; low-income and minority populations should be central in decision-making and should be priority targets for the benefits associated with energy solutions. Solutions must also respect the different capacities and lived experiences of members of our community and support fair and just compensation for those helping to create a renewable energy future.



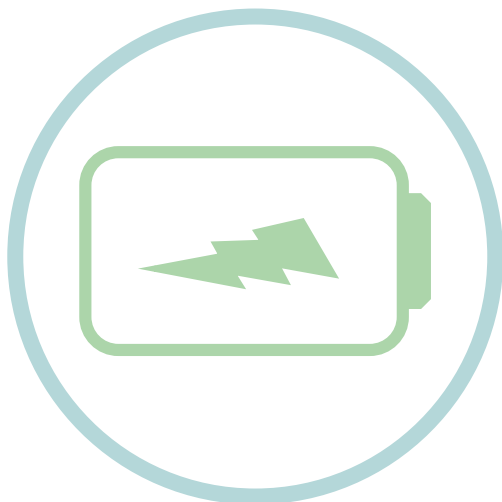
GUIDING PRINCIPLES



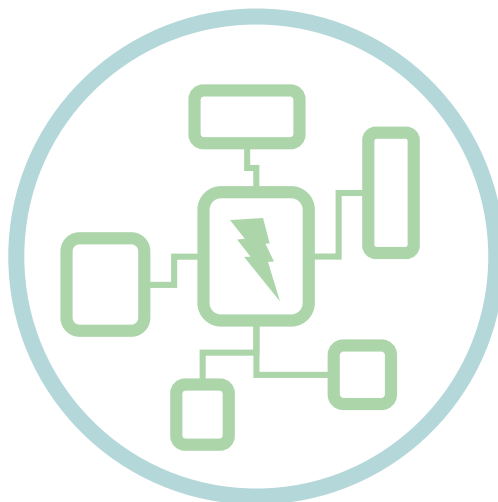


GUIDING PRINCIPLE – RESILIENT

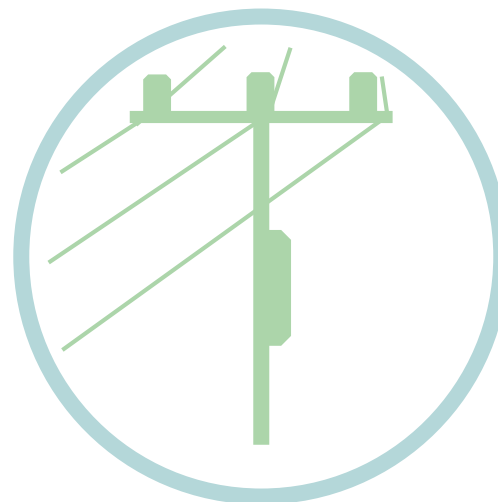
Enhancing the resilience of our people, our community and our natural systems. Energy solutions should ensure that individuals, especially at-risk individuals, emergency services, and emergency service personnel, have power during and after a disaster.



Renewables with
Battery Storage



Microgrids

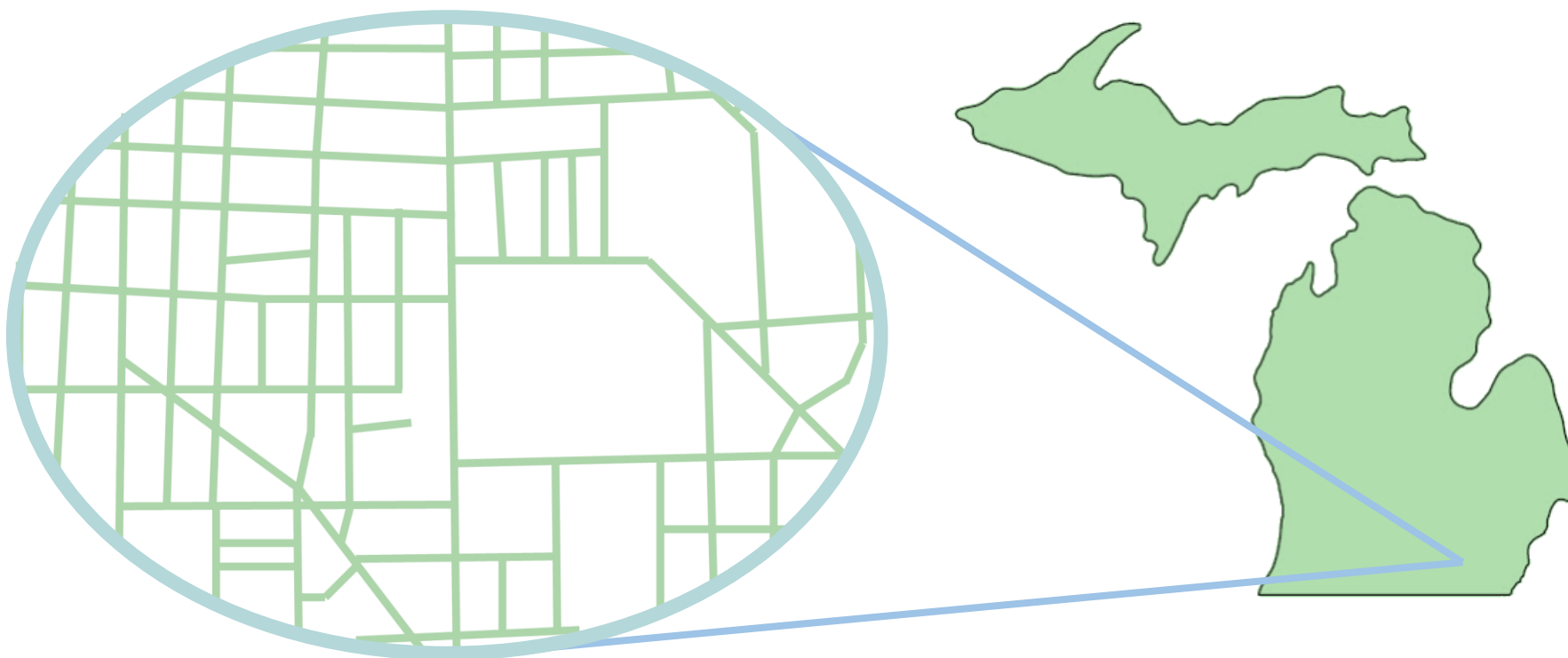


Resilient
Infrastructure



GUIDING PRINCIPLE – LOCAL

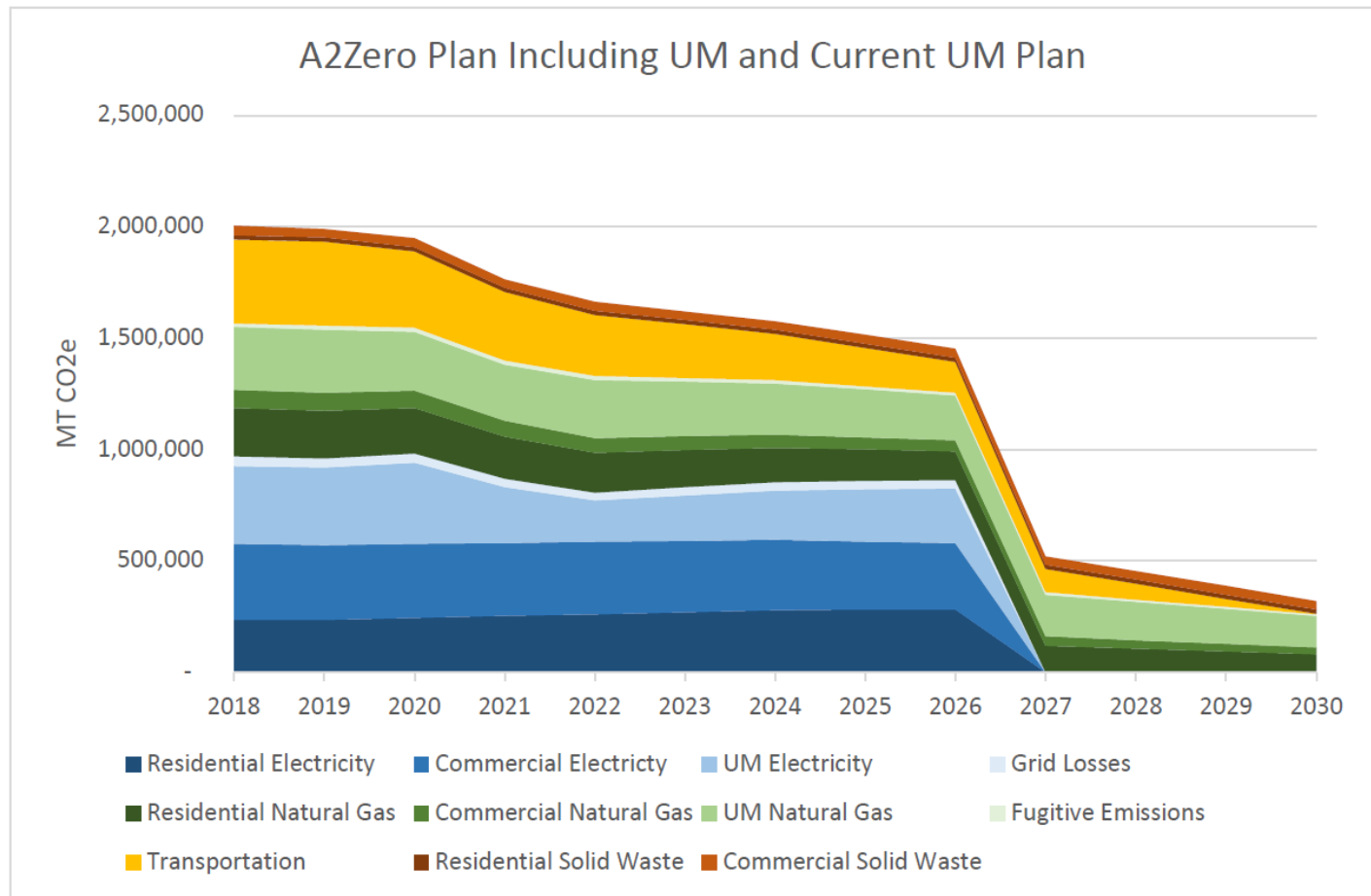
The second principle emphasizes location. New energy projects should be local as much as possible, with regional and state-level solutions given second consideration. When renewable energy solutions are not viable in Michigan, projects should be developed in partnership with environmental justice communities that have been disproportionately burdened by the extractive nature of the fossil fuel-based economy.





GUIDING PRINCIPLE – SPEED

Solutions should be capable of being deployed rapidly. At the center of this principle is a desire to reduce emissions, fast.





GUIDING PRINCIPLE – SCALABLE

Finding solutions that are scalable and transferable to other locations. Energy projects should be designed for replication in other municipalities in the region and nation-wide.





GUIDING PRINCIPLE – COST EFFECTIVE

Solutions that are cost effective. Energy solutions should be as affordable as possible, while still aligning with the core criteria and supporting as many guiding principles as possible.





Thank You
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