

Comprehensive Climate Action Plan

Miami Valley Region

Scenario Planning and Updates

October 3, 2024





Agenda

1. Introduction
2. Update - IRA incentives
3. Opportunity - local GHG inventories and low-carbon pathways



Miami Valley

Priority Climate Action Plan

February 15, 2024

The Nine PCAP Projects for Miami Valley

1.



Clean fleets

2.



Virtual Power Plants

3.



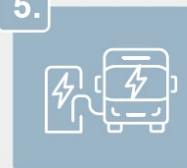
Virtual Power Plants Plus

4.



Neighborhood Deep
Retrofit Program

5.



Transit transformation

6.



Carbon sequestration

7.



Clean cars for all

8.



Active transportation

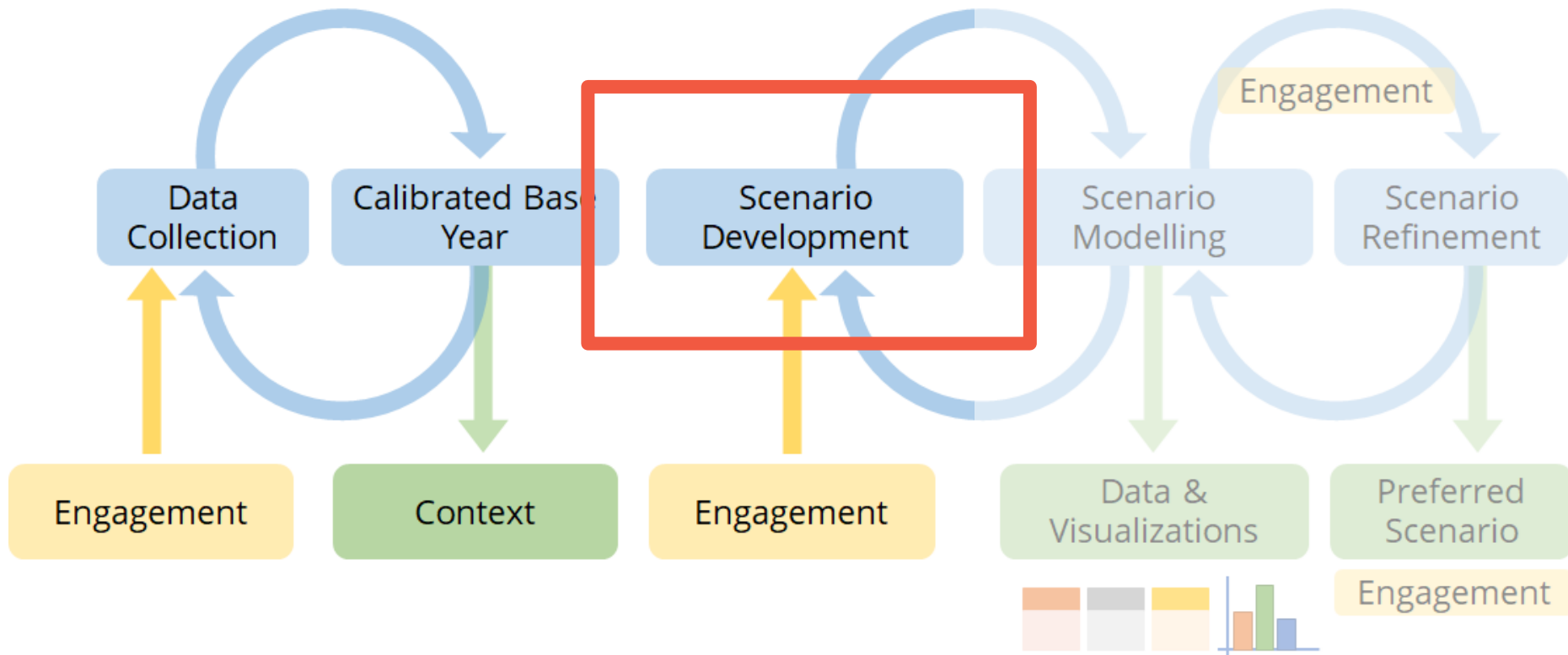
9.



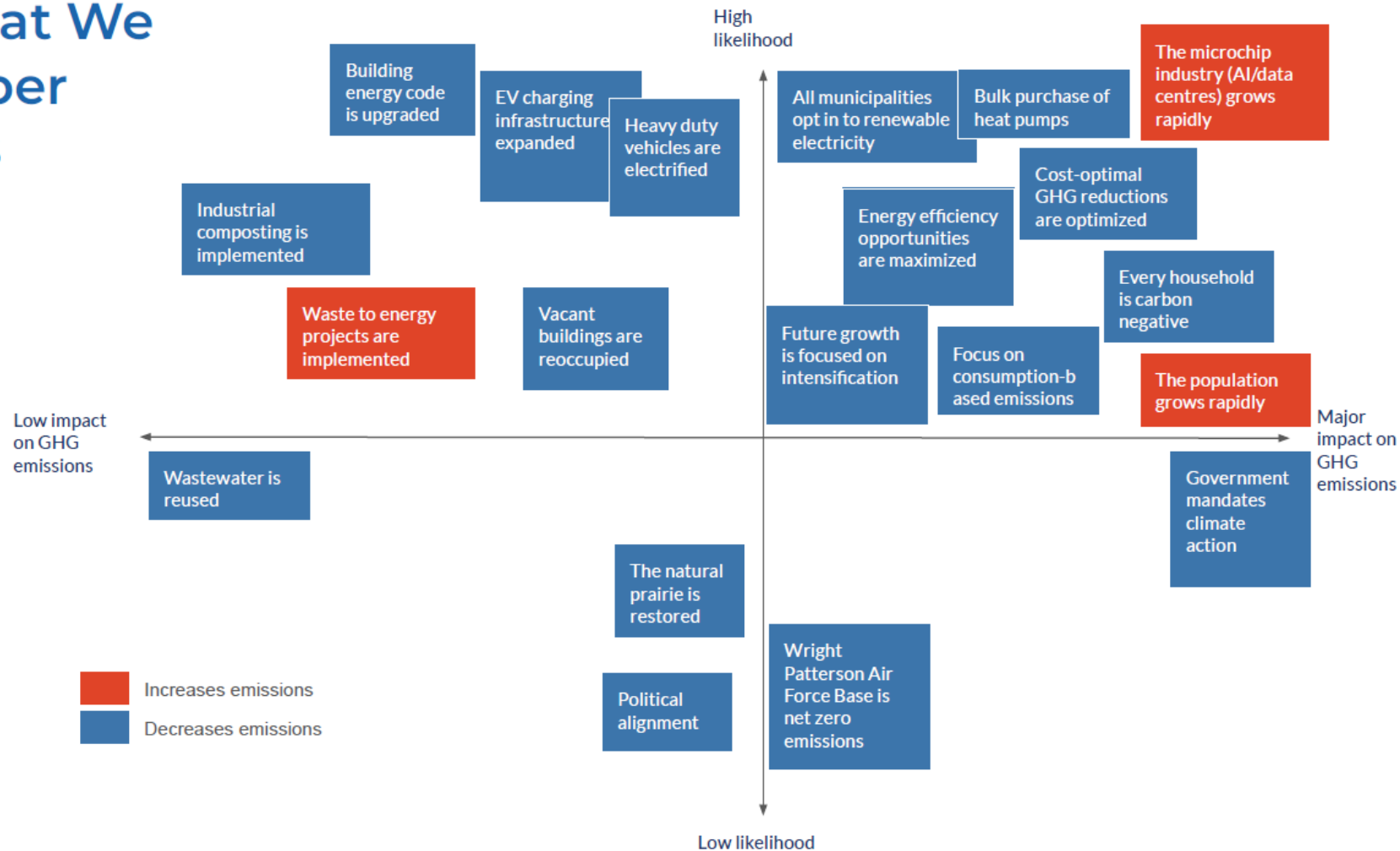
Organic Waste Reduction
and Sustainable Materials
Management



Project overview

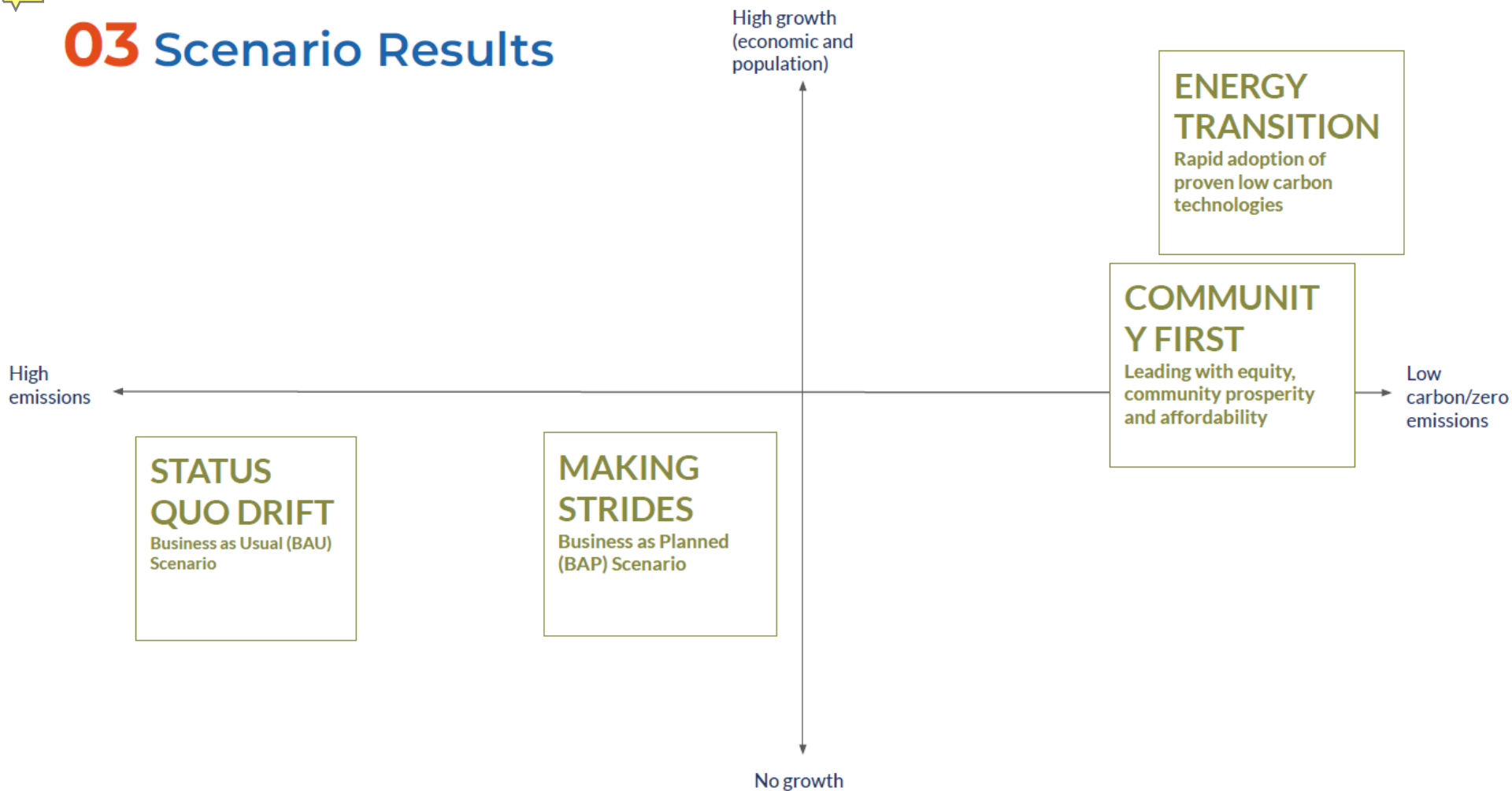


02 What We Heard per Sectors





03 Scenario Results





04 Narratives

STATUS QUO DRIFT	MAKING STRIDES	COMMUNITY FIRST	ENERGY TRANSITION
Business as usual Continuation of current profile with limited or no economic or population growth for the region as a whole	Business as planned Planned and funded policies, programs and investments IRA investments plus other federal state policies	Moderate economic and population growth Urban intensification with local community hubs (hub and spoke model of development) Equity-focused investments in decentralised renewables Emphasis on household affordability over the long-run	High economic and population growth New industries including server farms, microchips, vehicle manufacturing Rapid adoption of EVs, renewable energy, storage



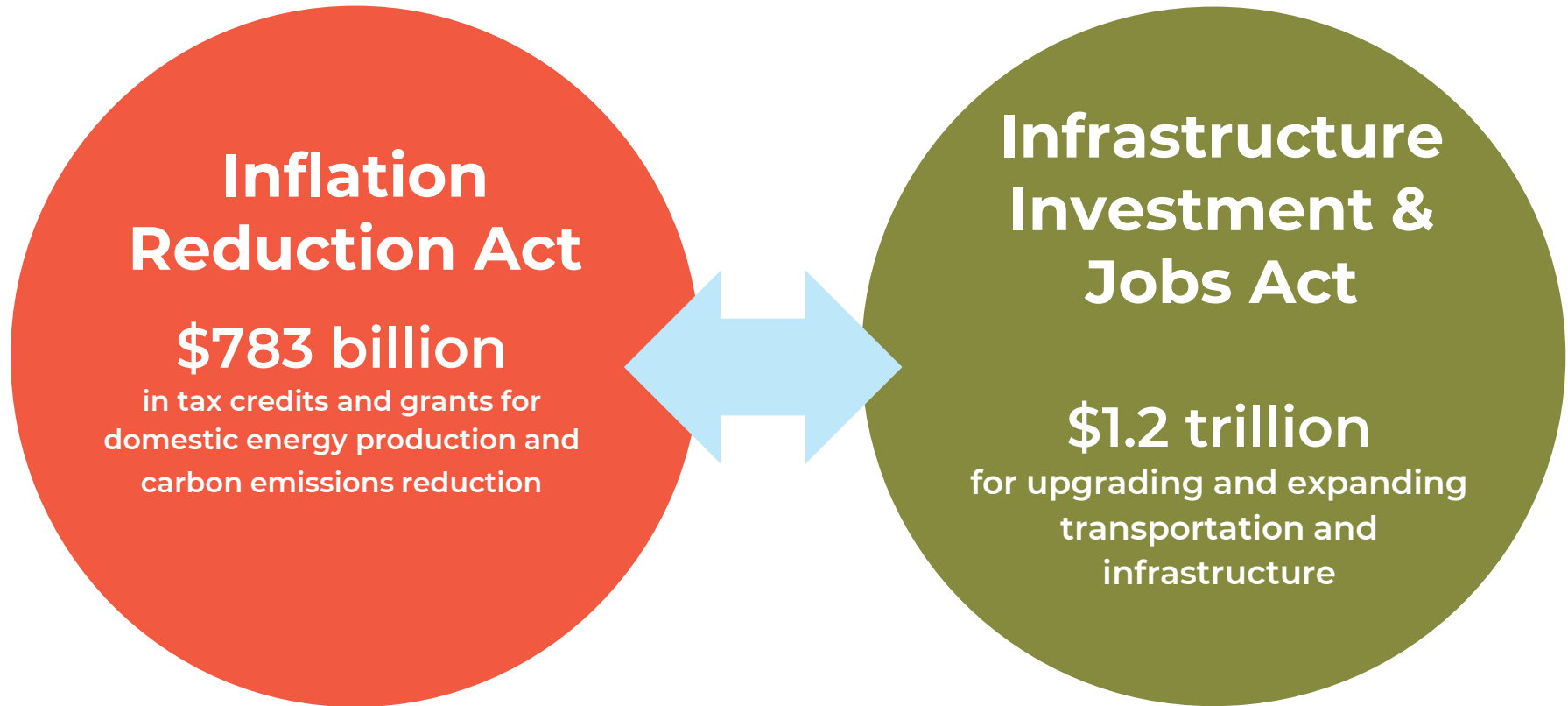
The Comprehensive Climate Action Plan (CCAP)

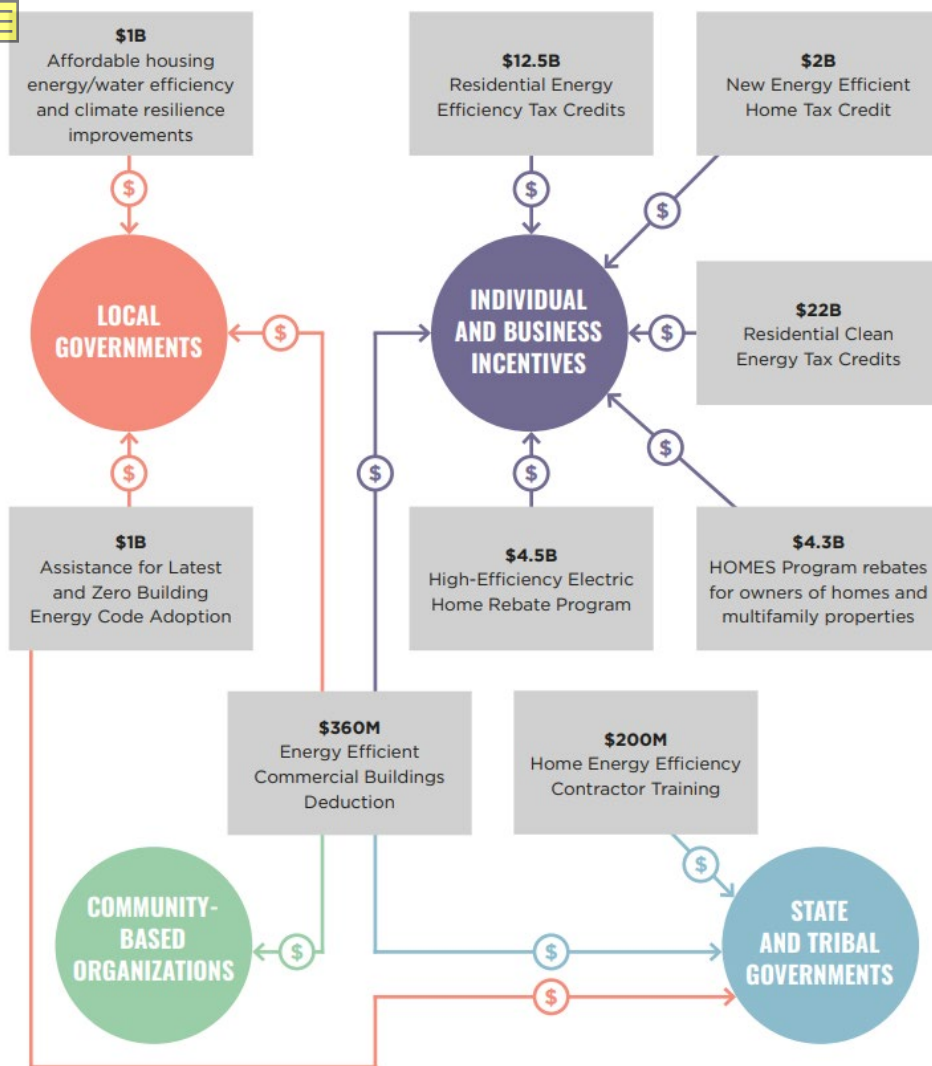
- ✓ Geographical resolution
- ✓ Outlines detailed actions to reduce our greenhouse gas emissions
- ✓ **Identifies economic development opportunities**
- ✓ Ensures an equitable transition for all community members
- ✓ Plots a pathway through the energy transition

2. IRA Funding

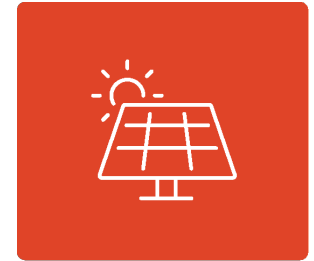


Federal Investments





ENERGY, HOUSING AND COMMERCIAL BUILDINGS



Source: C40, 2022. Climate Action and the Inflation Reduction Act: A Guide for Local Government Leaders. https://www.c40knowledgehub.org/s/article/Climate-action-and-the-Inflation-Reduction-Act-A-guide-for-local-government-leaders?language=en_US



DIRECT PAY

- **Madison, WI**
 - PV on a fire station, police station, library and engineering service building
 - Include a solar PV array with electric vehicle charging stations
 - Workforce development boosts the tax credit
- **Dayton, OH**

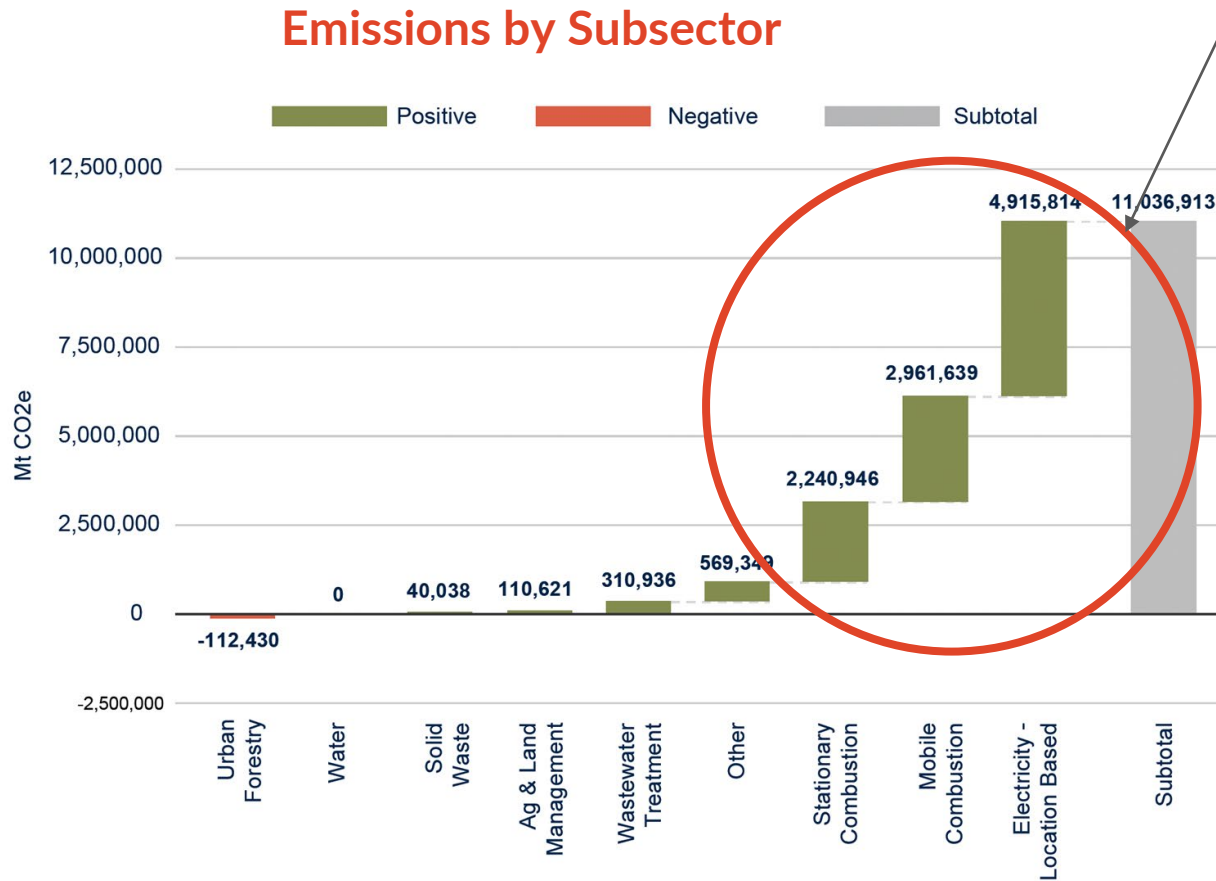
[IRS Elective Pay Fact Sheet](#)
[National League for Cities](#)



3. The Local Option

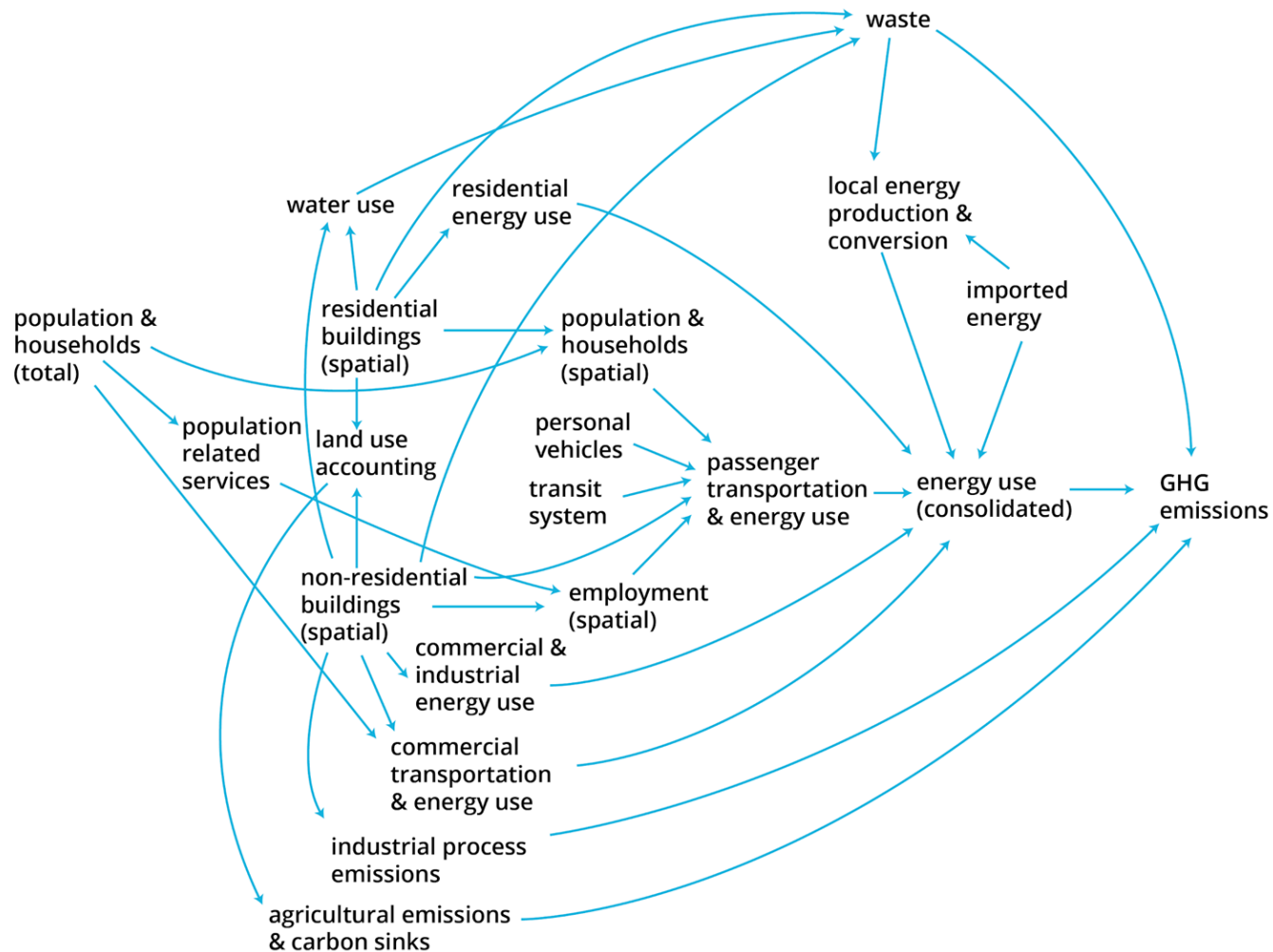
What do we know?

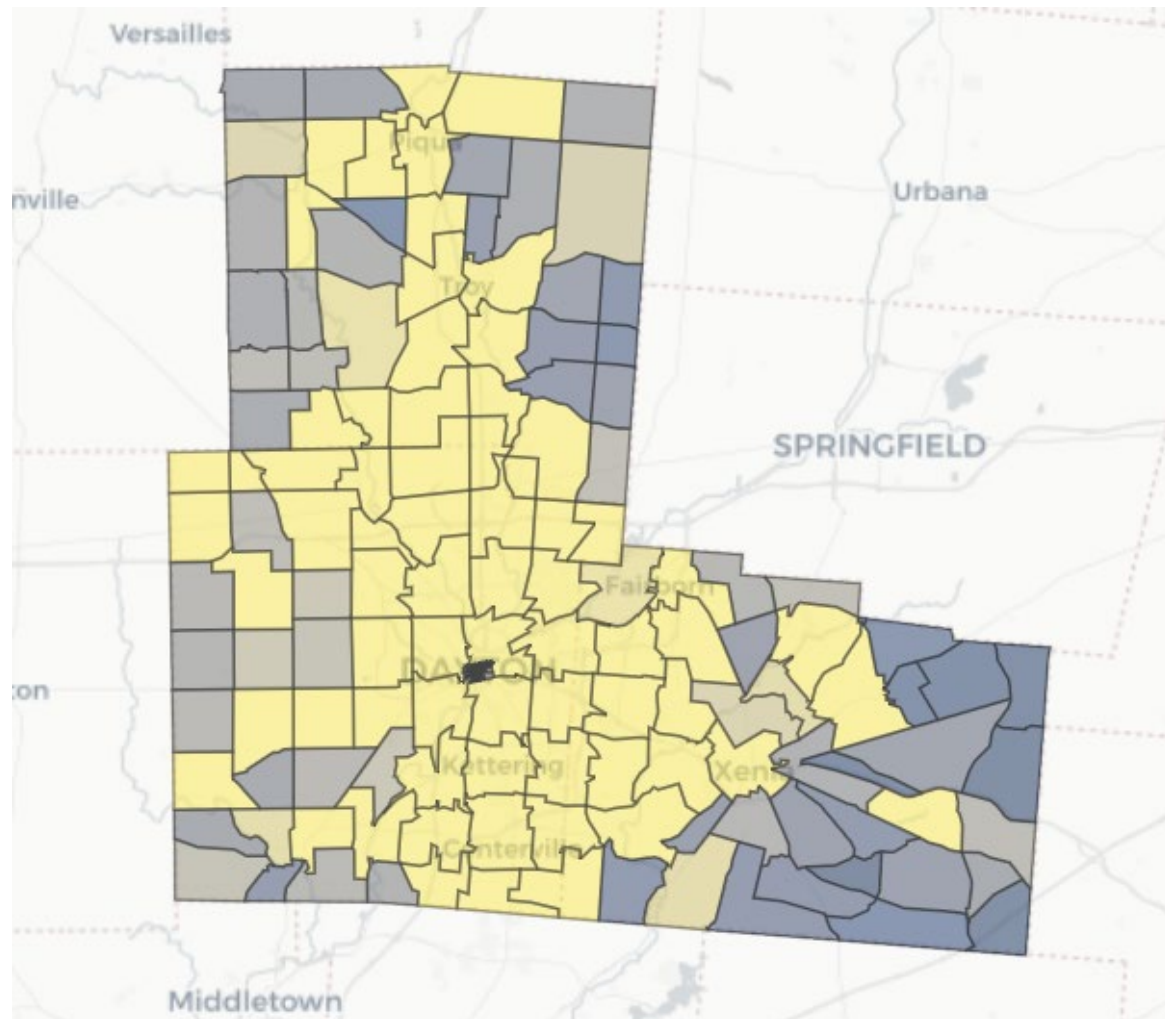
Three main sources of emissions





Which we can then model





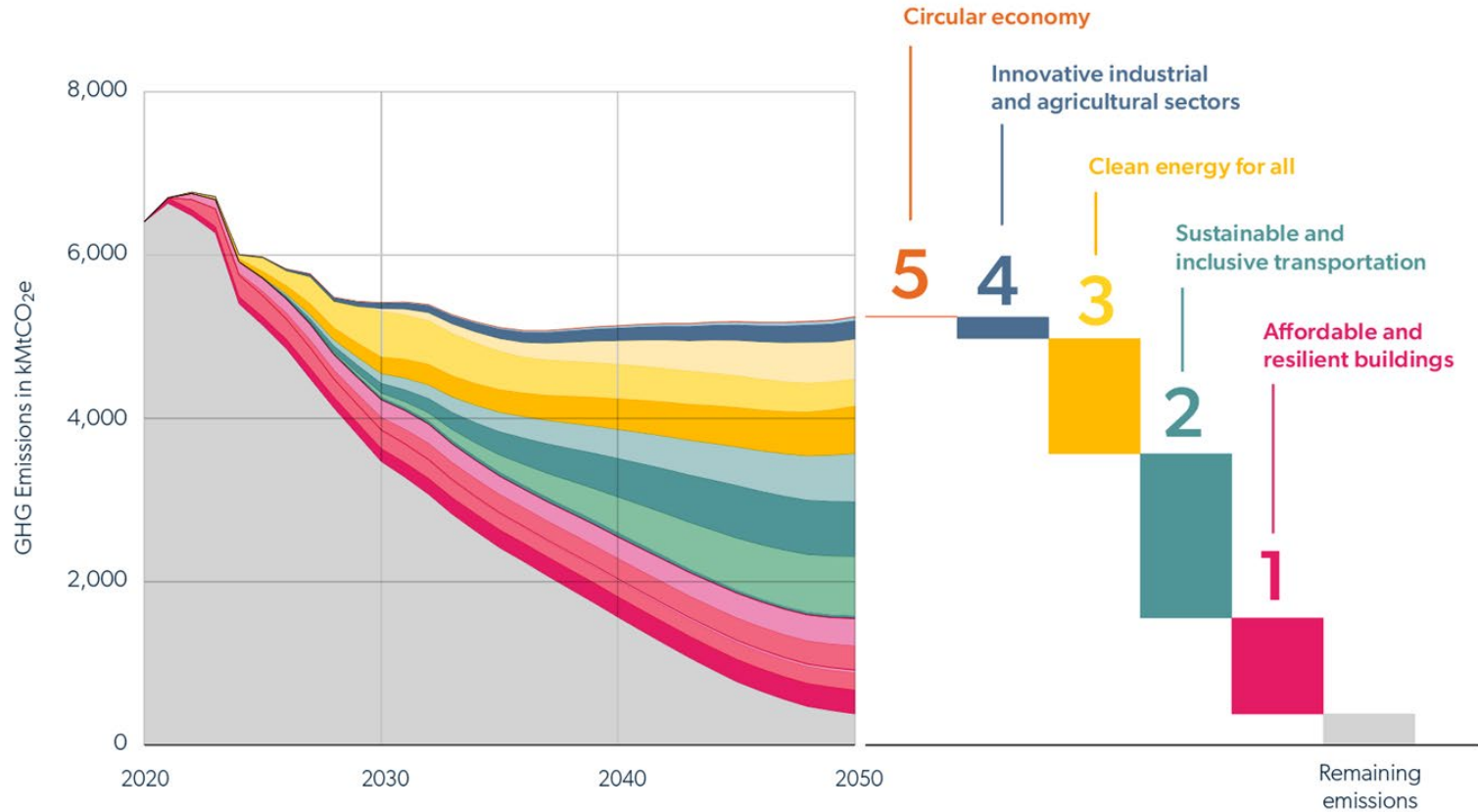


Four Questions

1. How much energy is used in your community? From what sources? How much money is spent on energy each year?
2. What are the sources of GHG emissions in your community?
3. What are the options to reduce GHG emissions? What are their relative impacts?
4. What is the capital/operating cost/benefit of each option? And what are the capital/operating costs/benefit for all of the options combined? What are the opportunities for job creation?



A Pathway





City of Dayton

Sustainability Office

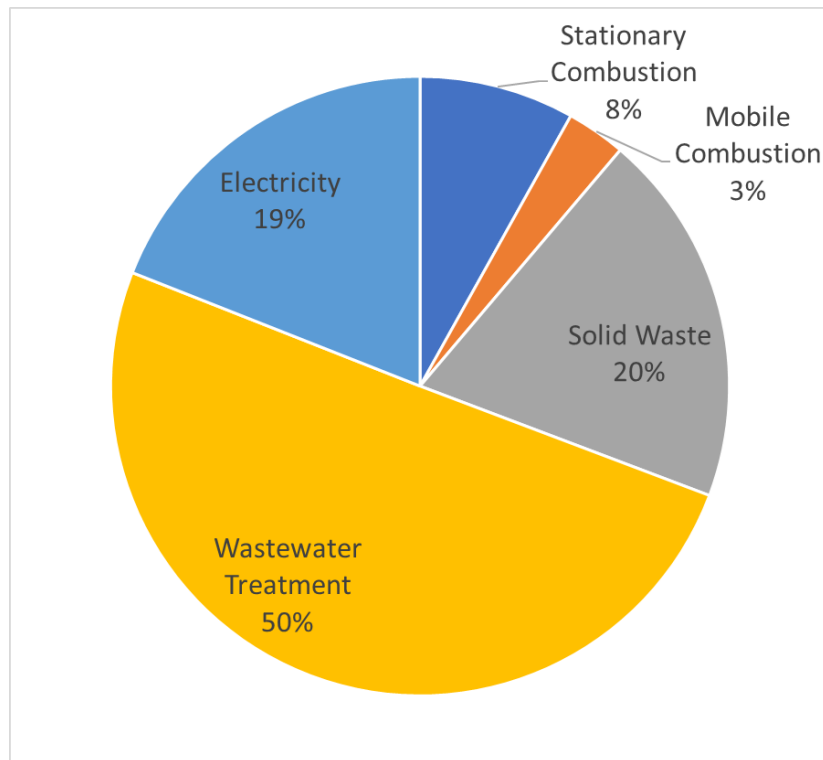
Emissions = Money: We are using data from our GHG inventory to identify money saving opportunities

Valuable Opportunity: The analysis that SSG is doing for City of Dayton would probably cost over \$100,000 but it is included in the contractual work as part of the CPRG project.



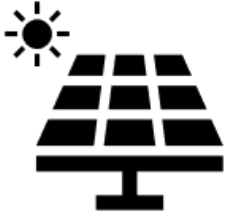
City of Dayton

Emissions by source, 2019





City of Dayton



Solar: Exploring options for our water and aviation departments



Fleet: New fleet policy specifies alternative fuels



Renewable Natural Gas: Water reclamation facility will earn \$1 million/year in revenue



City of Dayton

Impact of SSG's analysis

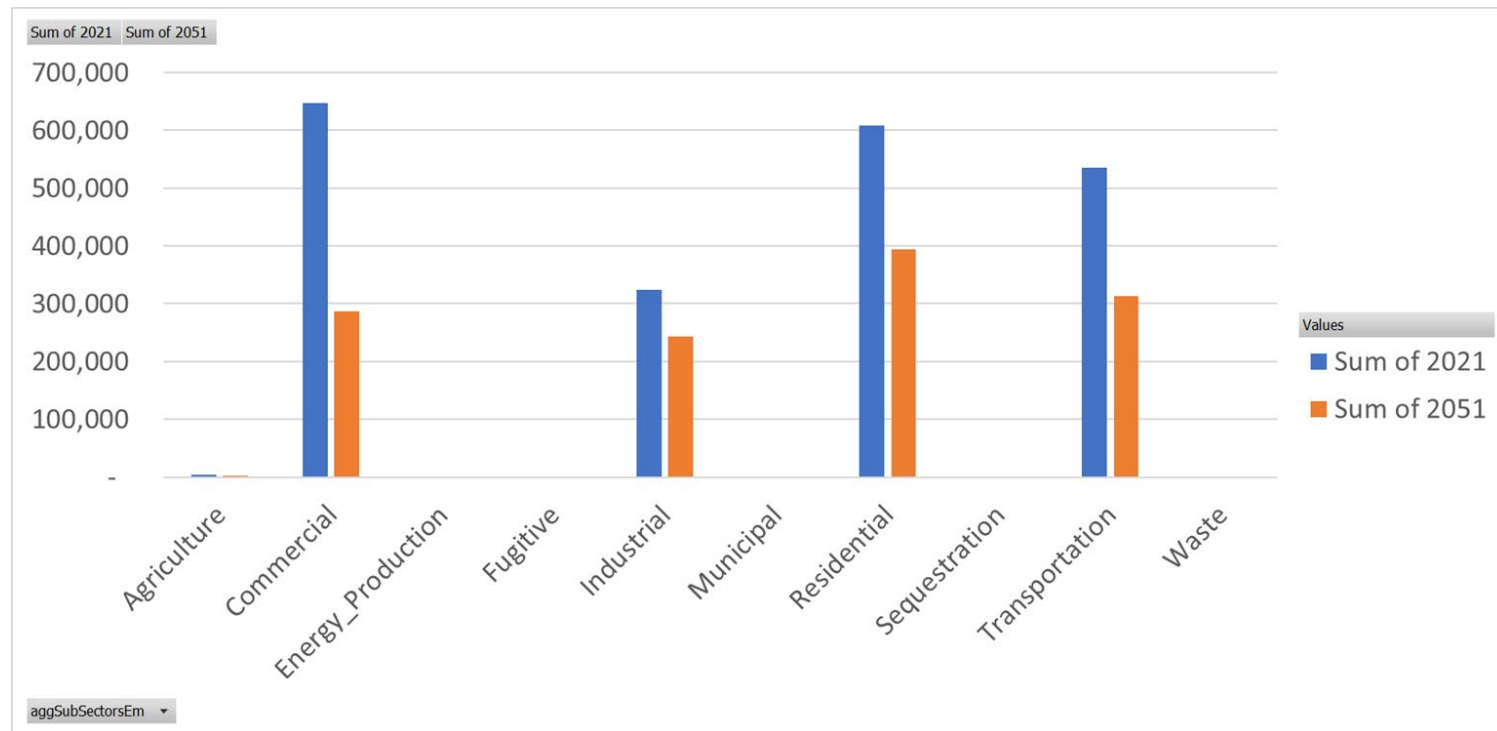
Community-level data: Higher degree of detail than what we could do on our own

Enabling outreach: Our office can use the data to bring the same emissions (MONEY) savings to our residents and businesses that we're already achieving in city operations



City of Dayton

Example





What do you need to do?

1. Indicate that you want to participate! (Deadline = **October 31, 2024**)
2. Help us define a scenario that makes sense for your context (1-2 meetings)
3. Review the GHG/financial results of the scenario (1 meeting)

And then you will have the technical analysis for a low carbon community economic development strategy.



Why undertake a local strategy?

A climate action plan is an economic development strategy	Identify opportunities to improve people's lives	Prepare for the future
Attract and retain businesses	Inform investments	Leverage funding opportunities
Reputation	Advance equity	Symbol of hope

Questions and Comments