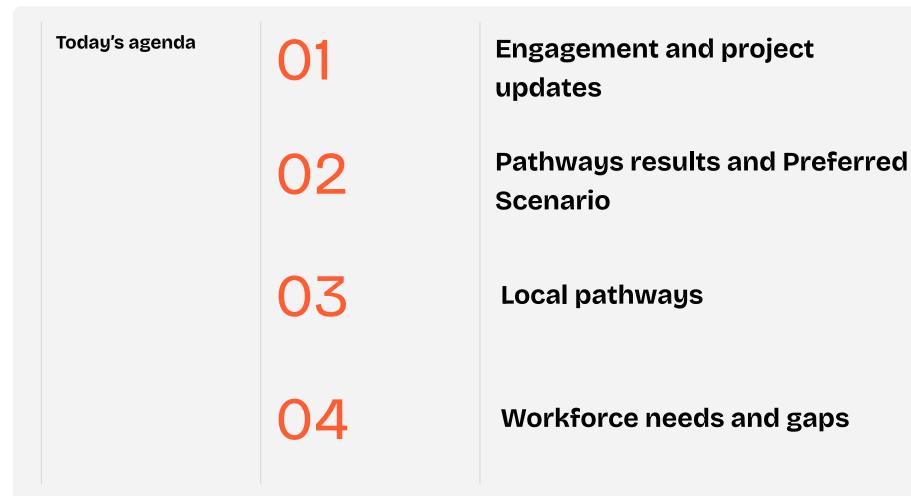
Comprehensive Climate Action Plan for the Miami Valley Regi

Miami Valley Regional Planning Commision

Sustainability Solutions Group

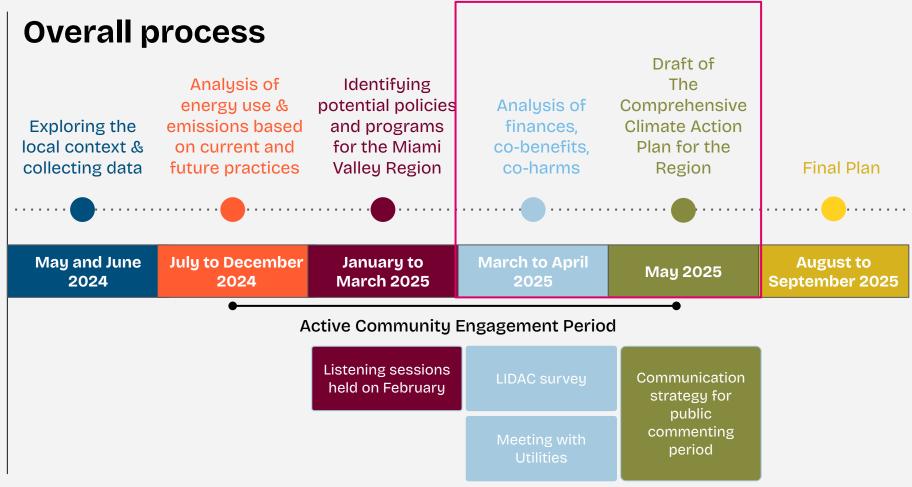






Engagement Update

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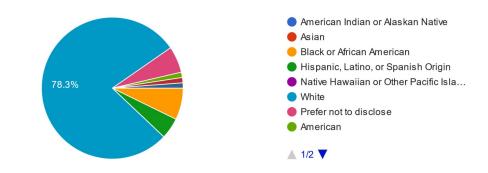


LIDAC survey

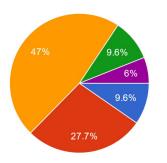
Total of 83 responses

Demographics

15. Which of the following describes your race or ethnicity? ⁸³ responses



19. Gross annual family/household income: 83 responses



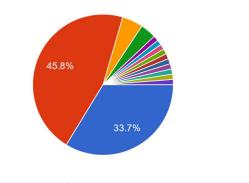


LIDAC survey

Are you interested in purchasing an EV in the next five years?

No- 46% Yes-34%

2. Are you interested in purchasing or leasing an electric vehicle (EV) in the next five years? ^{83 responses}



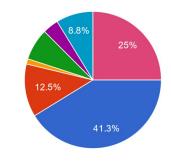


LIDAC survey

Why not?

Cost- 41% Not interested-25%

 If you do not own an electric vehicle, what is the MAIN barrier preventing you from purchasing one?
80 responses



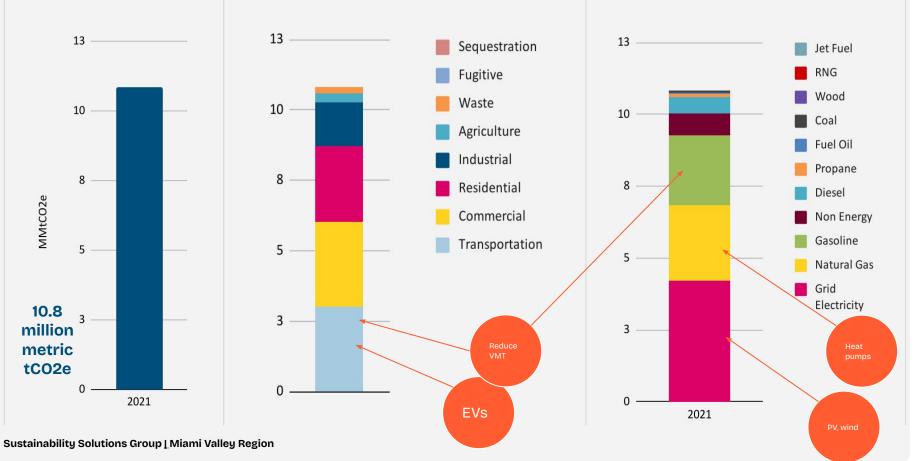
- Cost of the vehicle
- Adding a vehicle charger to my home
- Availability—It's hard to purchase an EV in Miami Valley
- Charging stations—I'm unsure if there are enough charging stations for me...
- Maintenance—I am not aware of mechanics who can service and mai...
- I do not perceive any barriers
- l'm not interested in purchasing an EV



Pathways for the Miami Valley Region

Sustainability Solutions Group

The Starting Point



By sector

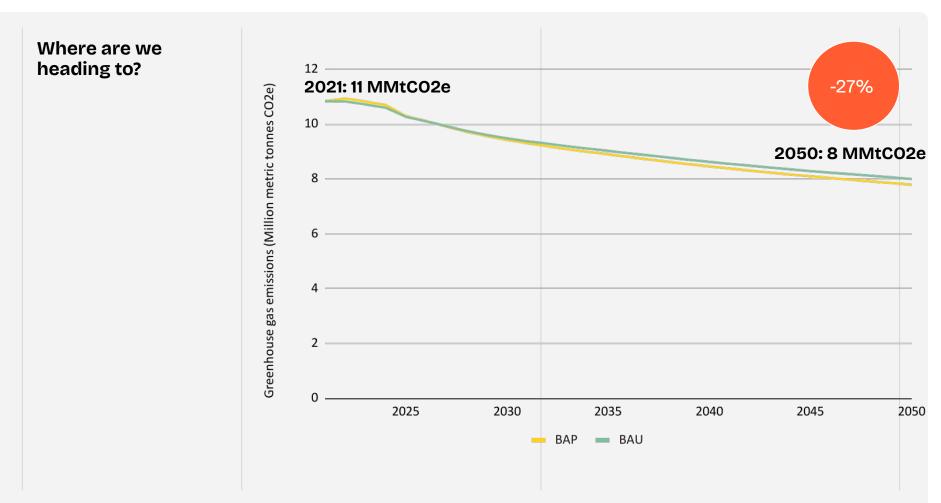
By energy source

Business as Usual (BAU) Scenario Business as Planned (BAP) Scenario Low Carbon Scenario (LCS)

Business as Usual (BAU) Scenario

Business as Planned (BAP) Scenario Low Carbon Scenario (LCS)

Changes in population up to 2050				
Changes in employment up to 2050				
Hotter summers and milder winters				
New project development in Wolf Creek				
Ohio Building code 2021 for residential and commercial				
Vehicle fuel economy standards				
EV penetration increases slightly	BAU + IRA impact + municipal fleet			
	Composting facility Montgomery County			
	Renewable energy - Solar for All Dayton			



Targets

Overall targets are recommended to be aligned with U.S. targets

U.S. Target: 61-66% reduction in greenhouse emissions from 2005 levels by 2030, and net-zero emissions by 2050.

Will Miami Valley get there?

Business as Usual (BAU) Scenario

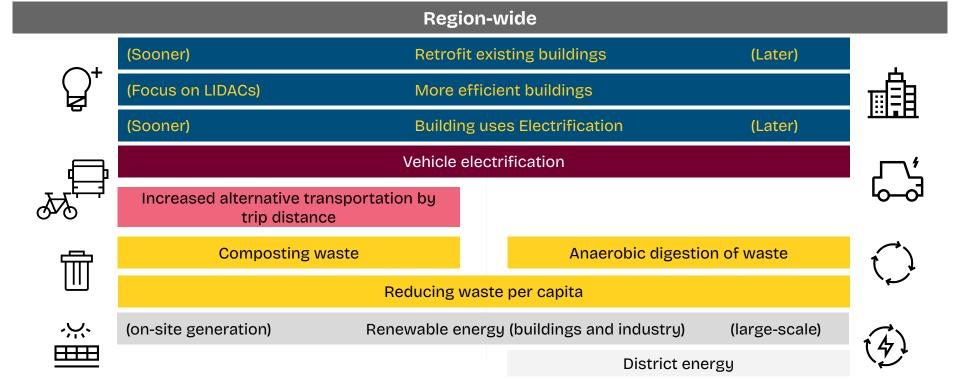
Business as Planned (BAP) Scenario Low Carbon Scenario (LCS)

Changes in population up to 2050				
Changes in employment up to 2050				
Hotter summers and milder winters				
New project development in Wolf Creek				
Ohio Building code 2021 for residential and commercial		New buildings more efficient		
Vehicle fuel economy standards		Increase alternative transportation modes		
EV penetration increases slightly	BAU + IRA impact + municipal fleet	More electric vehicles		
	Composting facility Montgomery County	Reduce waste generation		
	Renewable energy - Solar for All Dayton	Increase on-site generation		
		Electrifying heating/cooling and appliances		

Building retrofits

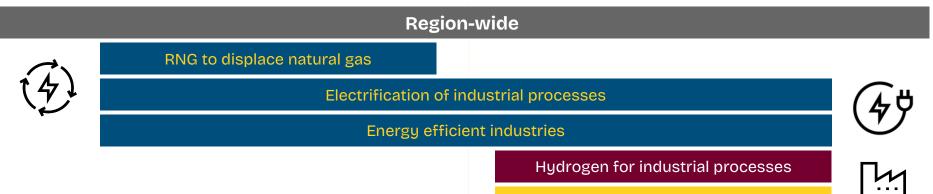
Scenario Community First

Scenario Energy Transition

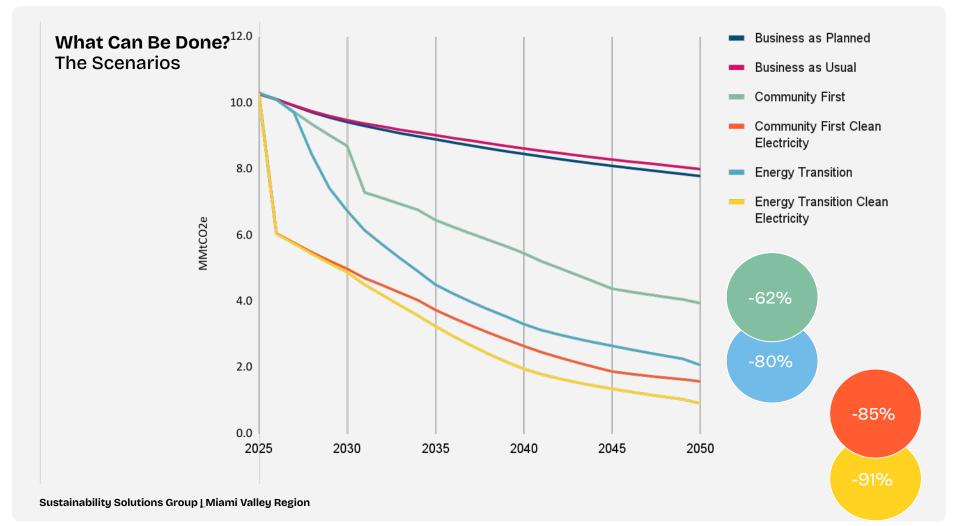


Scenario Community First

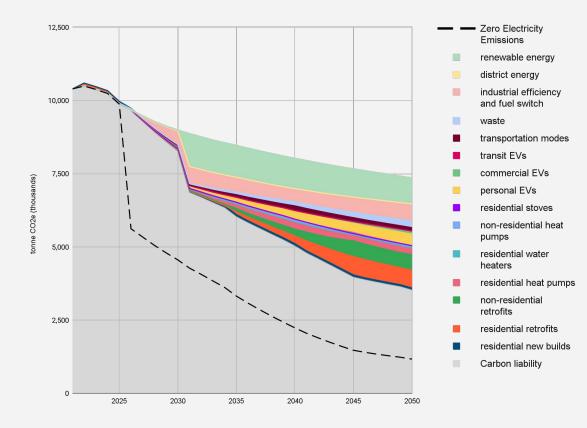
Scenario Energy Transition

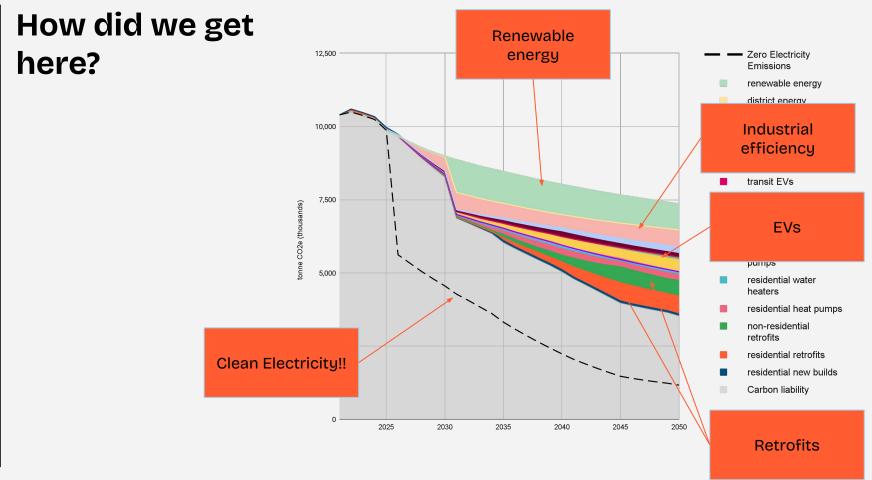


CCS for industrial emissions



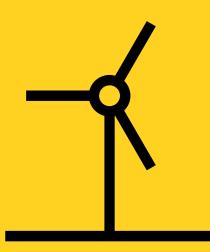
How did we get here?





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Renewable energy is the lynchpin of deep emissions reductions



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Targets

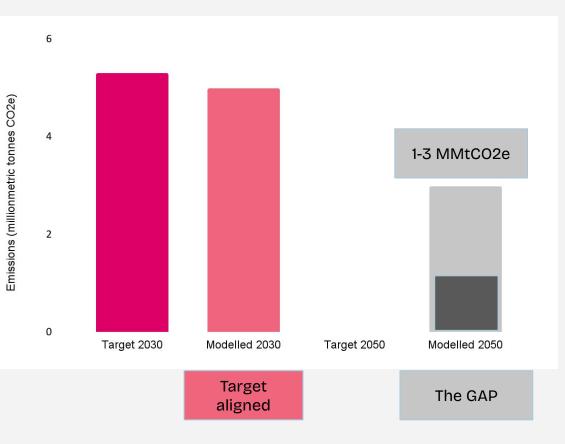
Overall targets are recommended to be aligned with U.S. targets

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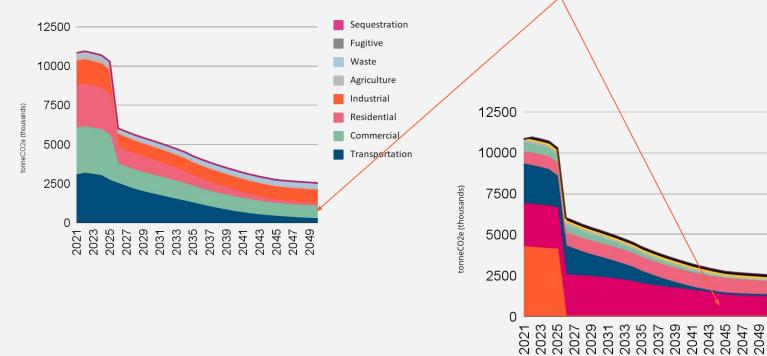
Miami Valley target:

Interim target: limiting GHG emissions in to 5.3 $MMtCO_2e$ in 2030.

Long term target: 0 tonnes of CO_2e by 2050.



Opportunities for more reductions?



Natural gas in commercial

sector

Jet Fuel

RNG

Wood

Coal

Fuel Oil Propane

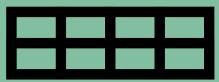
Diesel Non Energy

Gasoline Natural Gas

Grid Electricity

Is the Community First the preferred scenario?

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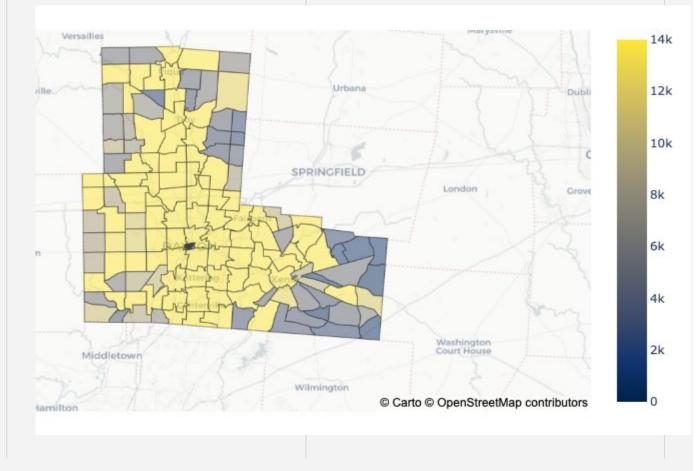
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Local pathways results

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Spatial Distribution of Emissions (total)



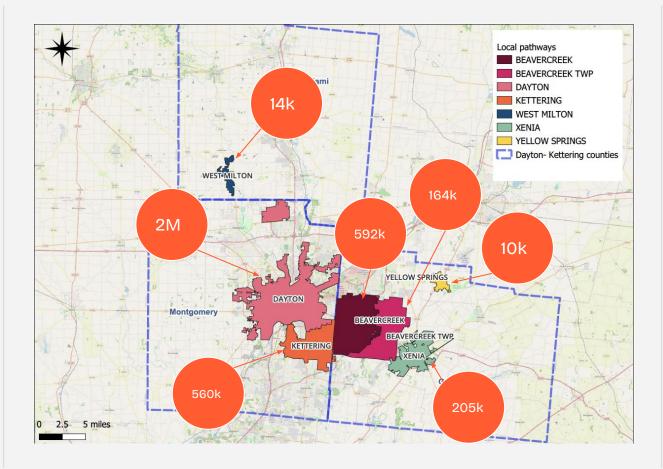
Sustainability Solutions Group LMiami Valley Region

Scenario Community First

Scenario Energy Transition

Region-wide
City of Dayton
City of Xenia
City of Beavercreek
Beavercreek Township
Village of West Milton
Village of Yellow Springs
City of Kettering

What Can Be Done? Local Pathways



Sustainability Solutions Group LMiami Valley Region

What Can Be Done? Local Pathways



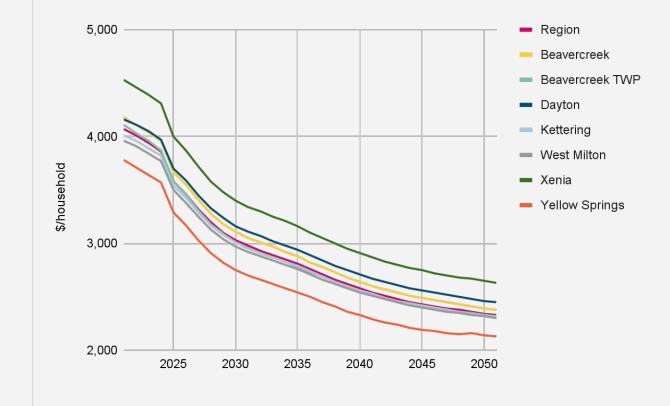
3.6 MMtCO2 of 10.8 MMtCO2e

Beavercreek
Beavercreek TWP
Dayton
Kettering
West Milton
Xenia
Yellow Springs

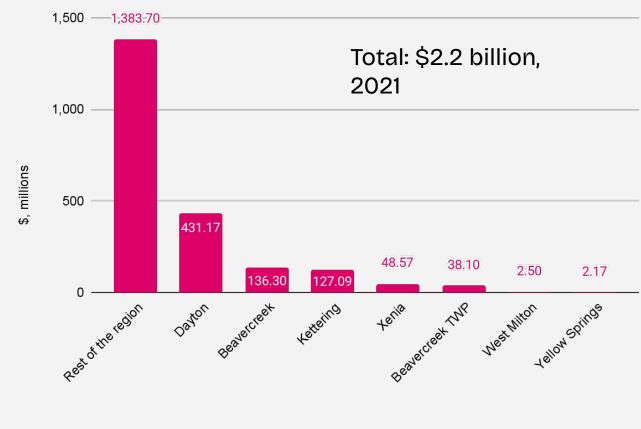
Test Which community spends the most on energy per household? Lowest?

Beavercreek Beavercreek TWP Dayton Kettering West Milton Xenia Yellow Springs

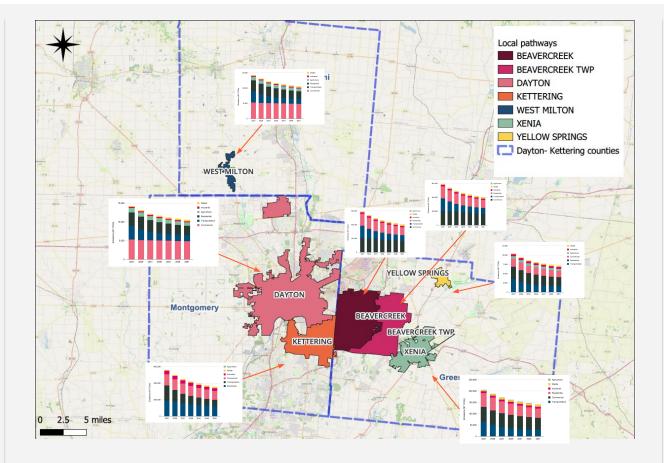
Energy Expenditures

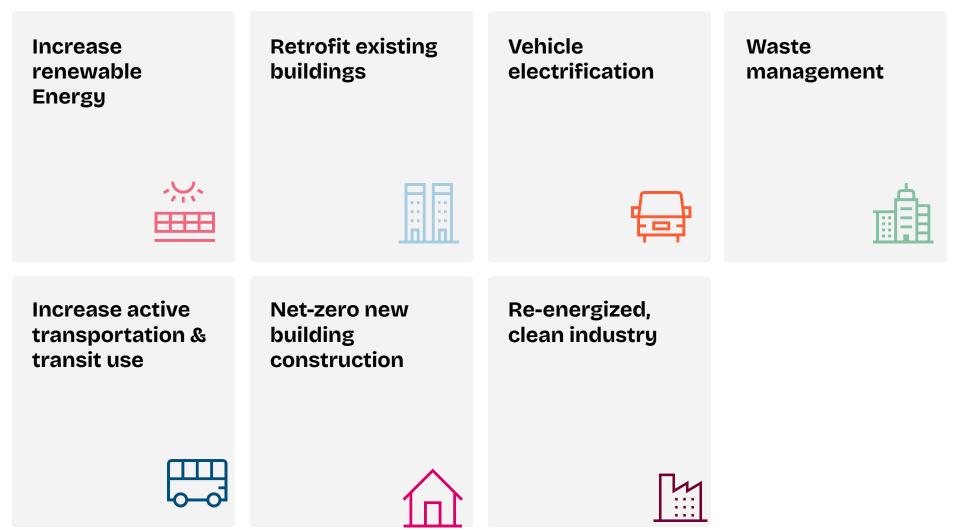


Total Energy Expenditures



What Can Be Done? Local Pathways





Local Climate Plans



3.6 MMtCO2 of 10.8 MMtCO2e

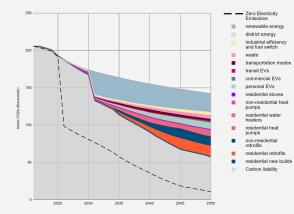
Reduce: 62% relative to 2021 by 2050

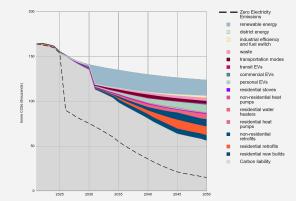
What additional opportunities can we explore?

23% of total regional emissions

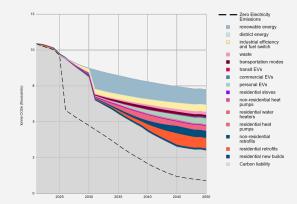
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Beavercreek Township



Village of Yellow Springs

City of Xenia



How do we prepare for implementation?

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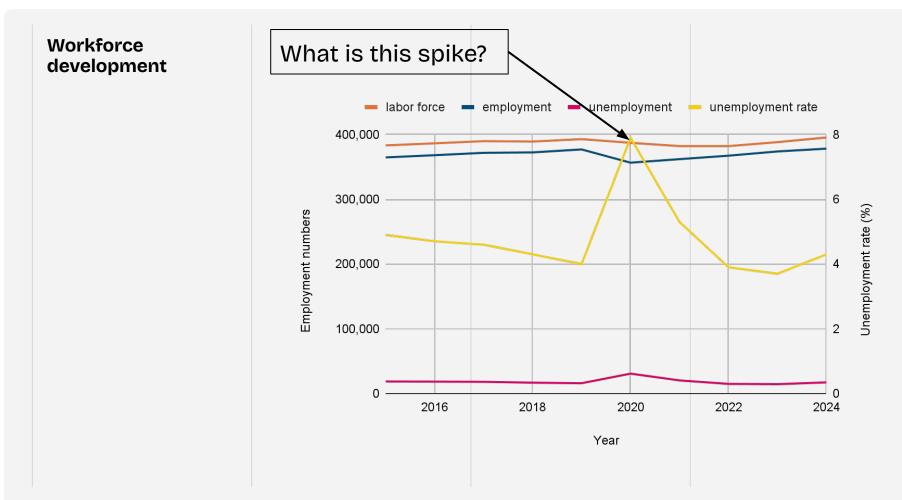
Workforce development

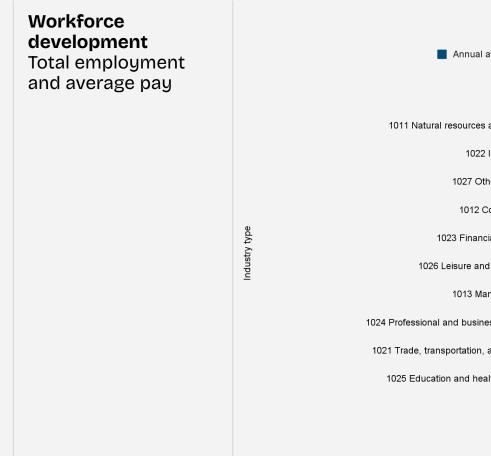


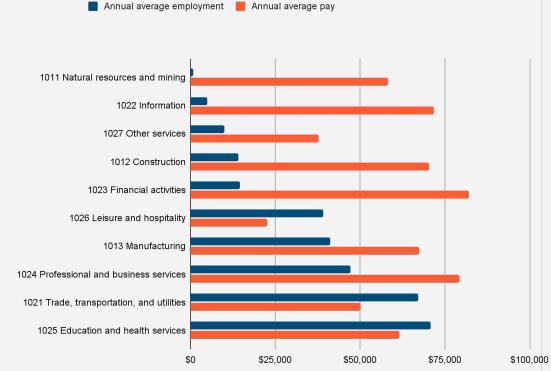
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Part 1: Conduct an analysis of potential workforce shortages associated with CCAP actions

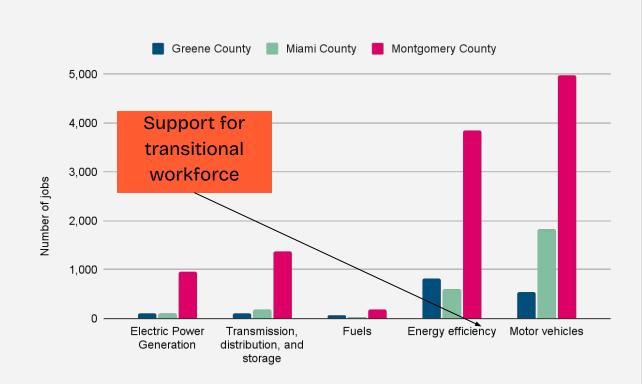
Part 2: Identify potential actions and solutions to address these challenges, and potential partners at the state, regional, and/or local levels who can help address them

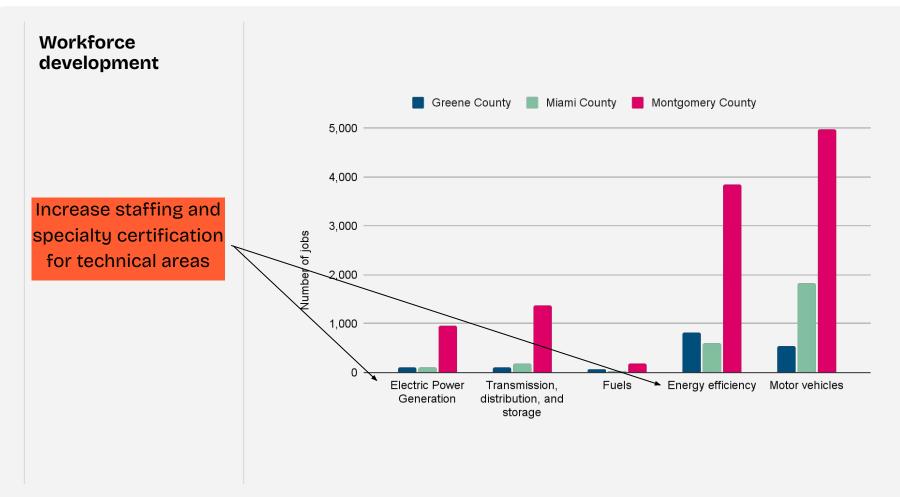






Workforce development Employment in the Energy Sector





Increase renewable Energy

22111 Electric power generation (solar and wind)



Retrofit existing buildings

2382 Building Equipment Contractors (electrical, wiring, plumbing, heating and air- conditioning)

Vehicle electrification

335312 Motor and Generator Manufacturing (non-ICE vehicles)

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Waste management

924110 Public sector environmental outreach (waste reduction campaigns) 562219 Waste Treatment and Disposal

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Increase active transportation & transit use

237310 Highway, Street and Bridge Construction



Net-zero new building construction

2361 Residential Building Construction 2362 Nonresidential Building Construction (industrial, commercial and institutional)

Re-energized, clean industry

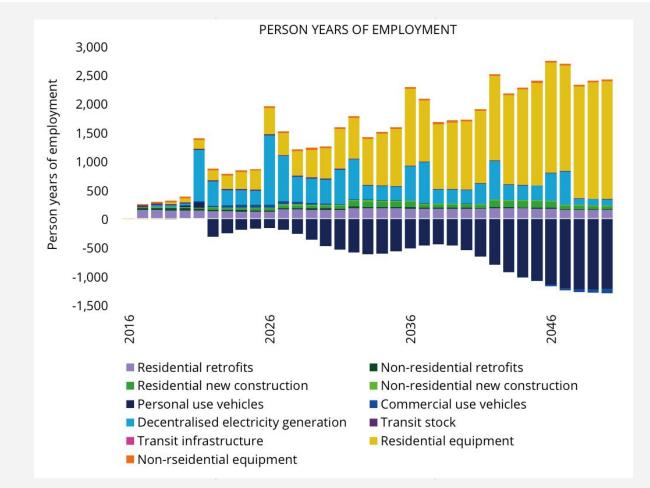
334515 Energy measuring equipment, electrical, Manufacturing 424690 Other Chemical and Allied Products Merchant Wholesalers



Workforce

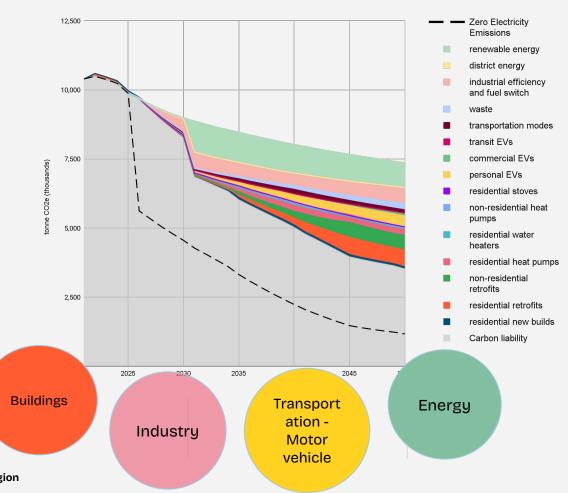
Example of jobs created by the implementation of the CCAP

Shortages and/or surplus by sector



Preliminary priority sectors for workforce development

What are the priority sectors for workforce development?



Communication strategy

We need your help spreading the word

Your help in sharing this opportunity with your networks will be greatly appreciated.

The comment period will provide an important chance for residents and organizations to weigh in on proposed strategies and opportunities for the region.

Official announcement and links will be shared as soon as the comment period opens.

Preliminary commenting period dates: June 2nd to July 2nd, 2025.



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