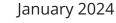


Priority Climate Action Plan

MVRPC Water and Environment Sub-Committee







SSG



Contents

PCAP process

Overview of GHG Inventory

Mitigation measures

The CCAP

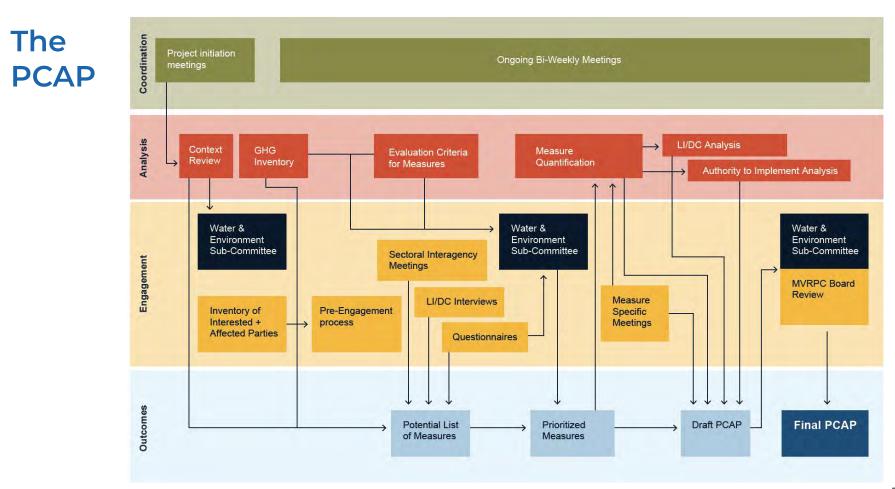




The PCAP

identify near-term, high-priority, implementation ready measures to reduce GHG emissions A systematic approach to reducing GHG emissions





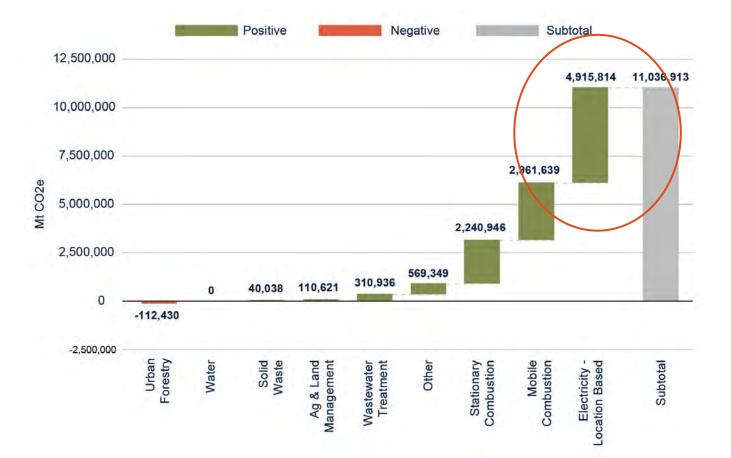
PCAP GHG Inventory



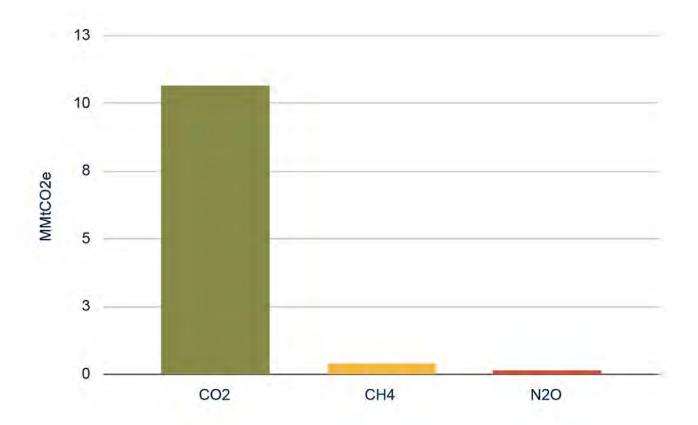
Emissions by sector



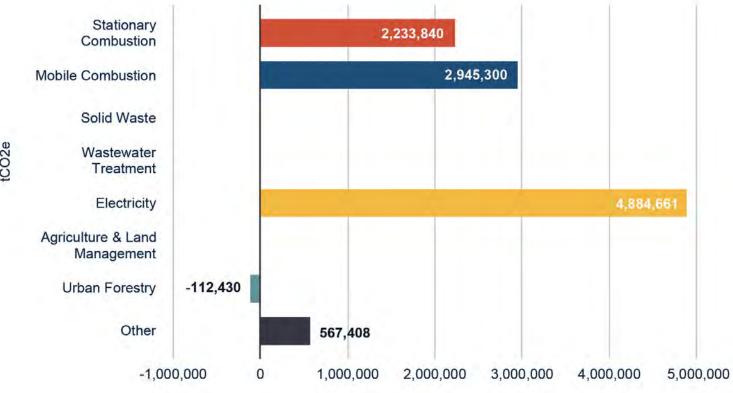
Emissions by sub-sector



Emissions by greenhouse gases

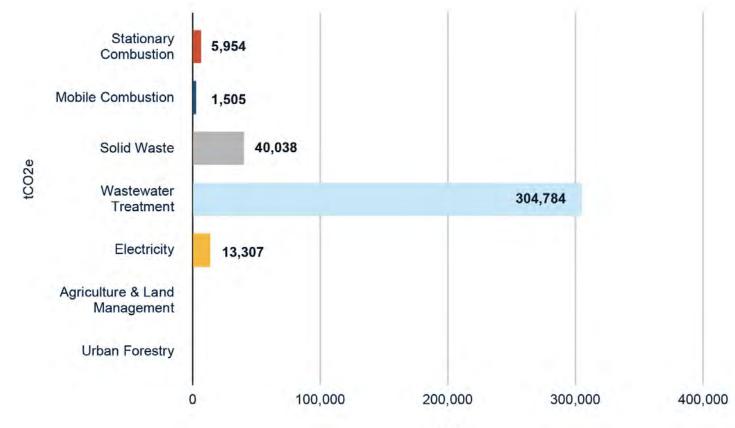


Overall GHG emissions - CO₂



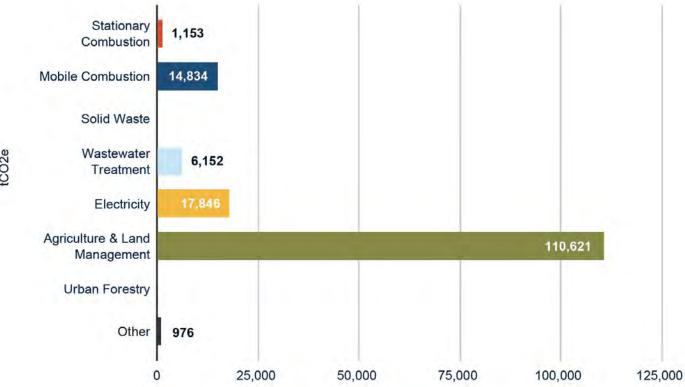
10

Overall GHG emissions - CH_4

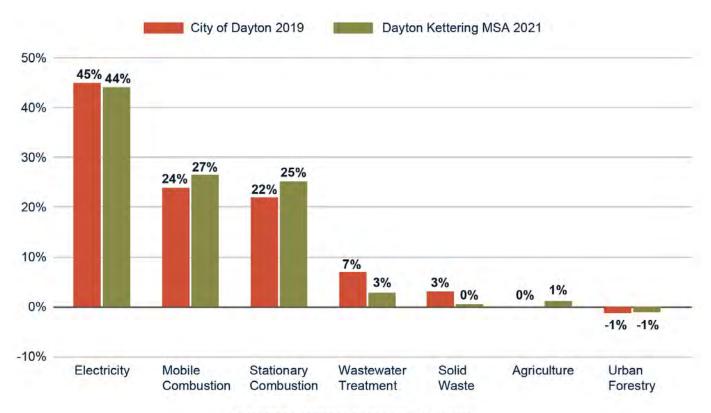


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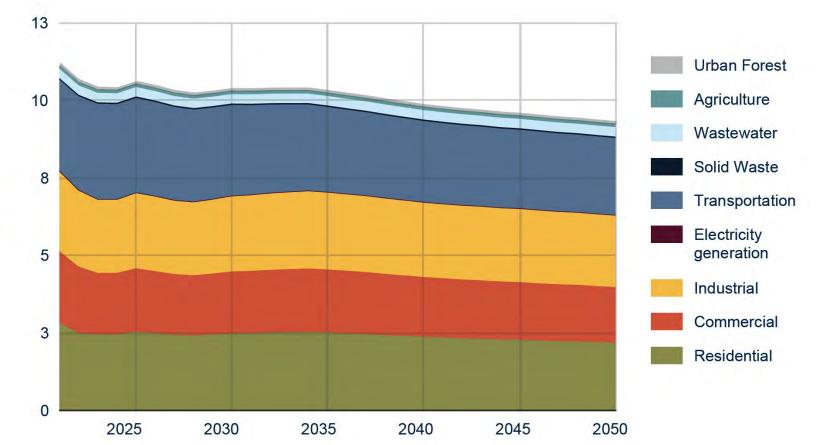




Comparing with Dayton GHG inventory...

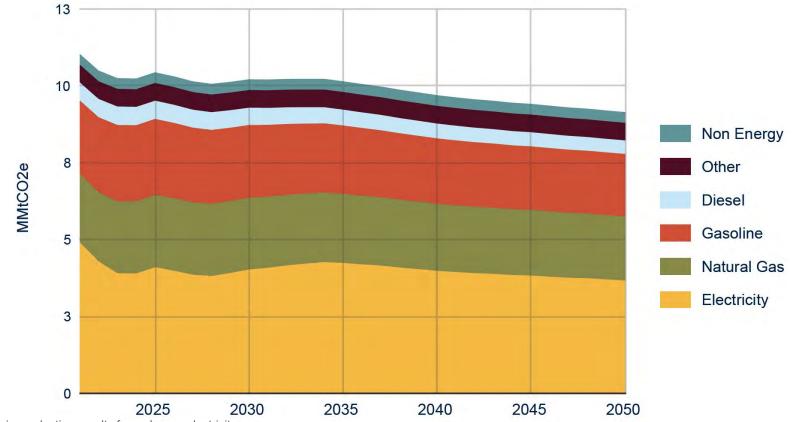


And by sector

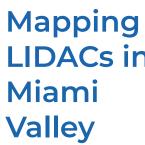


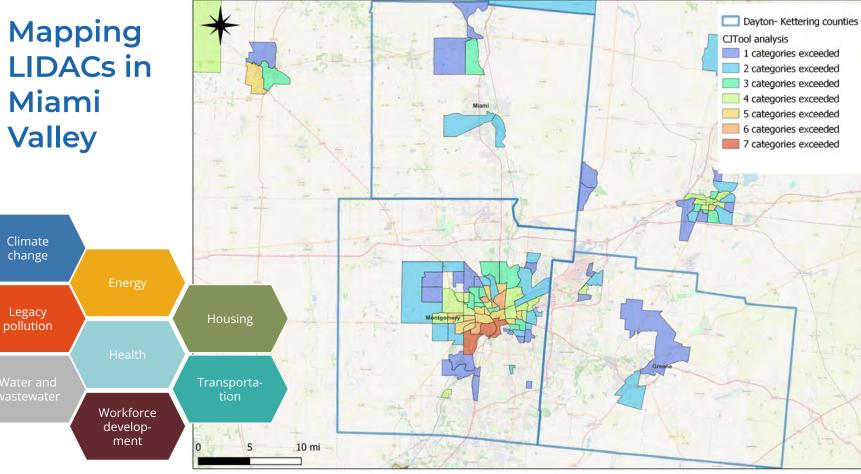
MMtCO2e

BAU by fuel and non-fuel



* GHG emission reduction results from cleaner electricity





PCAP Projects



PCAP Priority Projects



Clean fleets



Virtual Power Plants



Virtual Power Plants Plus



Neighborhood Deep Retrofit Program



Sugarcreek Waste

Facility Upgrade

6.

Transit transformation



Carbon sequestration



Clean cars for all



Active transportation

PCAP Priority Projects



Clean fleets

2024-2030: 375 MT CO2e 2024-2050: 1,546 MT CO2e



Virtual Power Plants

2026-2030: 164,569 MT CO2e 2026-2050: 1,472,575 MT CO2e



Virtual Power Plants Plus

+ 2026-2030: 3,899 MT CO2e 2026-2050: 45,899 MT CO2e



Neighborhood Deep Retrofit Program

2026-2030: 2,545 MT CO2e 2026-2050: 32,194 MT CO2e



Sugarcreek Waste Facility Upgrade

2025-2030: -5,969 MT CO2e 2025-2050: -25,866 MT CO2e



Transit transformation

2024-2030: 1,429 MT CO2e 2024-2050: 6,535 MT CO2e



Carbon sequestration

2025-2030: 40 MT CO2e 2025-2050: 3,949 MT CO2e



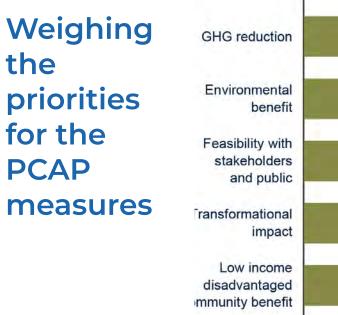
9.

Clean cars for all

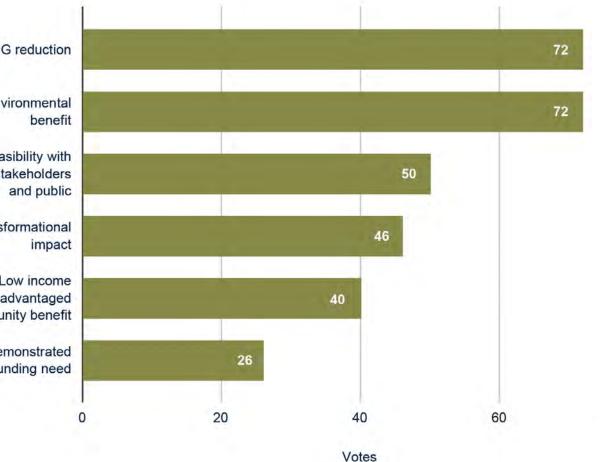
2027-2030: 9,733 MT CO2e 2027-2050: 98,056 MT CO2e

Active transportation

2025-2030: 8,386 MT CO2e 2025-2050: 36,339 MT CO2e

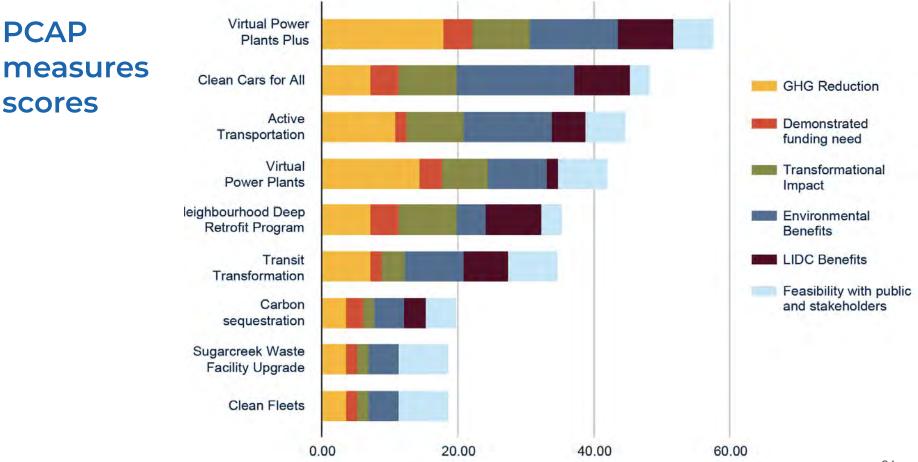


Demonstrated funding need



80

Prioritization Outputs





Recommendations and next steps



PCAP and CCAP

PCAP

Evaluated the impact of specific measures

Highlights benefits to LIDAC neighborhoods both directly and indirectly Will construct a model of the Miami Valley

- Evaluate actions GHG impacts
- Financial analysis and implementation mechanisms

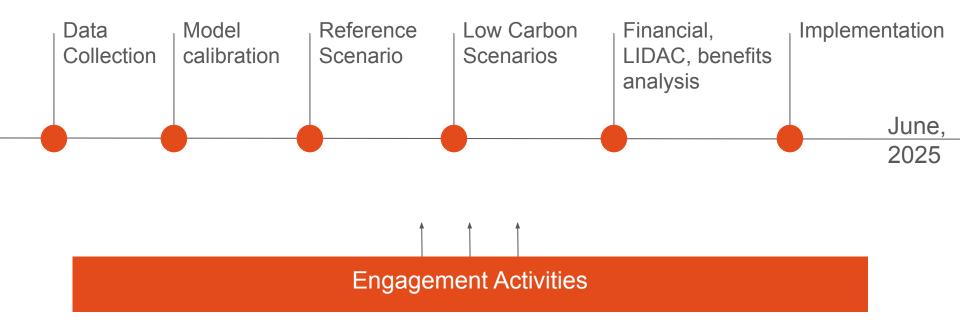
CCAP

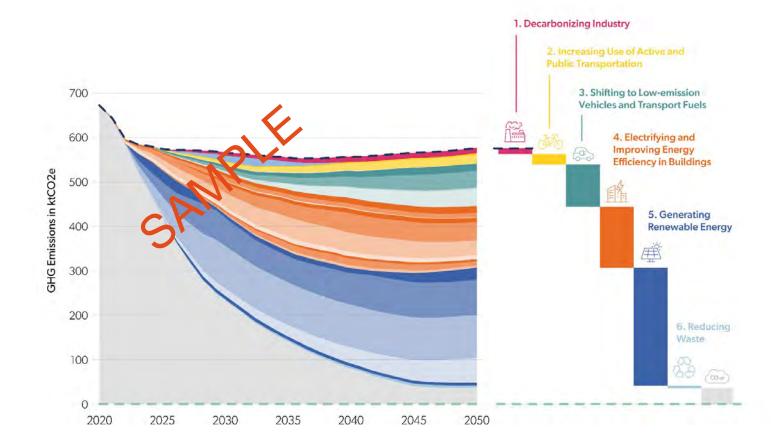
Extensive engagement process

Recommendations

- Evaluate the compounding and integrated benefit of electrification;
- Identify mechanisms to specifically target LIDAC (policies, incentives, investments);
- Directly involve LIDAC representatives in designing policies and mechanisms;
- Identify transportation options for rural areas;
- Mechanisms to scale building weatherization or retrofits across the region;
- Leverage the opportunity of SOPEC
- Evaluate a scenario for concentrated development across the region as a strategy to systematically transform transportation in Miami Valley.

CCAP Process





THANK YOU

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