

Applicant Information

- **Organization:** Southeast Michigan Council of Governments (SEMCOG)
- **Primary Contact Name:** Lindsey Kerkez
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Application Type

SEMCOG is the lead applicant for a coalition that includes the City of Detroit, Livingston County, Macomb County, Monroe County, Oakland County, St. Clair County, Washtenaw County, and Wayne County.

Funding Requested

\$198,680,878

Application Title

Southeast Michigan Building Decarbonization Accelerator

Proposed GHG Reduction Measures

1. Residential Retrofits and Fuel Switching: Decarbonizing 9,100 homes of low-income residents in Southeast Michigan to achieve at least a 50% reduction in thermal energy consumption and 50% reduction in total energy consumption. This will include improving the building's energy efficiency, replacing space heating and cooling, and water heating systems with zero emissions systems.
2. Residential Renewable Electricity: Connecting the 9,100 retrofit homes to renewable electricity in the form of rooftop or ground mount solar, or green power purchases.
3. Energy Advisor Service: Providing energy audits and a customized decarbonization and funding plan to 1,500 non-income-qualified residents to stimulate them to reduce the total energy consumption by an average of at least 25% in their homes by 2030.
4. Climate Resilient Tree Planting: Planting 10,600 native, climate-resilient trees - one for each participating household - to increase natural sequestration and green space at or near their home.
5. Municipal Facility Retrofits: Significantly reduce emissions from over 500,000 square feet of municipal buildings and facilities by 2030, with a focus on those located in Justice40 communities, through a combination of building retrofits, energy efficiency improvements, and renewable energy system installation.

Emissions Sectors Associated with Reduction Measures

- Commercial and Residential Buildings
- Electricity Generation
- Natural and Working Lands

Expected Total Cumulative GHG Emissions Reduction

- **2025 – 2030:** 200,000 MT CO₂e
- **2025 – 2050:** 282,000 MT CO₂e

Locations for Implementation

The primary focus for implementation will be in low income and disadvantaged communities across the seven-county coalition area. This may include but is not necessarily limited to identified census tracts in the following municipalities, which represent approximately 1.3 million residents, or 28% of Southeast Michigan's population:

- Livingston County: areas of Fowlerville, Genoa Township, and Howell.
- Macomb County: areas of Center Line, Chesterfield Township, Clinton Township, Eastpointe, Harrison Township, Mount Clemens, Romeo, Roseville, Sterling Heights, Utica, and Warren.
- Monroe County: areas of Frenchtown Township, Monroe, and Monroe Township.
- Oakland County: areas of Commerce Township, Hazel Park, Madison Heights, Oak Park, Pontiac, Royal Oak Township, Southfield, Troy, and Waterford Township.
- St. Clair County: areas of Capac, Kimball Township, Port Huron, and Port Huron Township.
- Washtenaw County: areas of Ann Arbor, Superior Township, York Township, Ypsilanti, and Ypsilanti Township.
- Wayne County: areas of Brownstown Township, Canton Township, Dearborn, Dearborn Heights, Detroit, Ecorse, Garden City, Hamtramck, Harper Woods, Highland Park, Inkster, Lincoln Park, Melvindale, Redford Township, River Rouge, Romulus, Southgate, Taylor, Van Buren Township, Wayne, Westland, and Wyandotte.

PCAP Associations

- **PCAP Lead Organization:** SEMCOG
- **PCAP Title:** Southeast Michigan Healthy Climate Plan: Priority Climate Action Plan
- **PCAP Link:**
https://www.semcoq.org/desktopmodules/SEMCOG.Publications/GetFile.ashx?filename=SoutheastMichiganPriorityClimateActionPlan_2024.pdf
- **PCAP References for Proposed Reduction Measures:**
 1. Residential Retrofits and Fuel Switching
 - Regional Priority Measure: Decarbonizing Buildings and Industry – PCAP pages 20-28.
 2. Residential Renewable Electricity
 - Regional Priority Measure: Expanding Renewable Electricity Generation – PCAP pages 47-51.
 3. Energy Advisor Service
 - Regional Priority Measure: Decarbonizing Buildings and Industry – PCAP pages 20-28
 4. Climate Resilient Tree Planting
 - Regional Priority Measure: Optimizing Natural and Working Lands – PCAP pages 55-62.
 5. Municipal Facility Retrofits
 - Regional Priority Measure: Decarbonizing Buildings and Industry – PCAP pages 20-28.