

Cover Page



Applicant: Mid-America Regional Council (MARC)

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Type of Application: Individual application

Funding Requested: \$197,823,216

Application Title: Kansas City – Anchoring Climate Transformation (KC-ACT)

Sector(s): Electric power, transportation, commercial and residential buildings, agricultural/natural lands, waste management

Expected Total Cumulative GHG Emission Reductions:

- Total cumulative GHG emission reductions, 2025 – 2030: 622,873 metric tons of CO₂e. Cost effectiveness \$318 per ton.
- Total cumulative GHG emission reductions, 2025 – 2050: 5.455 million metric tons of CO₂e. Cost effectiveness \$36 per ton.

Location(s): Bi-state Kansas City metropolitan area, including Cass, Clay, Jackson, Platte and Ray counties in Missouri; and Johnson, Leavenworth, Miami and Wyandotte counties in Kansas.

Applicable PCAP Reference(s):

Lead organization: Mid-America Regional Council (MARC); **PCAP title:** Kansas City Regional Priority Climate Action Plan; **PCAP website link:** <https://kcmetroclimateplan.org/wp-content/uploads/2024/02/Priority-Climate-Action-Plan.pdf>

Building Energy and Renewable Energy: *Reduce energy burdens and improve public health through a regional network of resilience hubs, quality affordable housing, high-performing public/institutional buildings/nonprofit buildings and renewable energy.*

Building Energy Efficiency & Renewable Energy Investments measures (and PCAP page references)

Measure BE-1: Build resilience in LIDAC communities by investing in resilience hubs (pp. 16-17)

Measure BE-2: Reduce energy burden by investing in quality housing (pp. 18-19)

Measure BE-3: Achieve regional energy savings by investing in high-performance public, nonprofit & commercial buildings & schools (pp. 20-21)

Measure BE-4: Deploy renewable energy solutions to reduce grid and cost burden (pp. 22-23)

Transportation Alternatives and Technologies: *Reduce emissions through green transportation corridors, connected trails/bike lanes, e-bikes and e-bike infrastructure, EV charging and low-emission fleet transitions.*

Transportation Alternatives & Technologies measures (and PCAP page references)

Measure T-1: Connect resilient neighborhoods and activity centers with green corridors and active transportation (p. 25)

Measure T-2: Connect resilient neighborhoods by expanding/linking trails and separated bikeways (p. 26)

Measure T-3: Enhance low-carbon mobility by Investing in shared electric bike infrastructure and expand the use of electric bikes (p. 27)

Measure T-4: Reduce emissions by expanding the network of publicly available electric vehicle charging infrastructure to fill network gaps and provide access to underserved communities (p. 28)

Measure T-5: Transition public transit/municipal fleets to zero-/low-emissions technology (p. 29)

Cover Page

Urban Greening: *Sequester carbon and reduce urban heat islands through landscape scale riparian restoration, urban forestry, native landscaping, green stormwater infrastructure and landscape scale habitat restoration.*

Urban Greening measures (and PCAP page references)

Measure UG-1: Increase and maintain tree canopy along green corridors and within neighborhoods to address urban heat islands, conserve energy and protect public health (p. 32-33)

Measure UG-2: Sequester carbon through the conservation and restoration of riparian and natural areas and through green stormwater infrastructure (p. 34-35)

Measure UG-3: Adopt stormwater standards and related policies to enhance land stewardship and sequester carbon (p. 36)

Agriculture, Food and Waste Innovation Systems: *Reduce emissions through regional composting facilities, food waste reduction, and regenerative agricultural investments.*

Agriculture, Food and Waste Innovation Systems measures (and PCAP page references)

Measure FA-1: Invest in innovation and entrepreneurship to build capacity of Kansas City regional food system stakeholders (p. 40-41)

Measure FA-2: Build resilience in LIDAC communities by investing in at least 10 applied regenerative agriculture facilities (p. 42)

Measure FA-3: Increase residential composting and diversion to local livestock (p. 43)

Measure FA-4: Reduce food waste at schools, food service, grocery, distribution, and commercial facilities (p. 44-45)

Cross-Sector Measures: *Create the precondition to optimize greenhouse gas reductions while building long-term capacity and ensuring durable outcomes.*

Cross-Sector Measures (and PCAP page references)

Measure CS-1: Advance public policy and build collaborative partnerships (p. 47)

Measure CS-2: Develop an equitable green workforce (p. 48)

Measure CS-3: Empower individuals to reduce GHG emissions through action (p. 49)

Measure CS-4: Create multi-faceted professional and community training program to accelerate implementation of measures (pp. 50-51)

Measure CS-5: Develop a co-creation-based model to support capacity building, shared leadership and project monitoring and evaluation (pp. 52-53)