

**CLIMATE POLLUTION REDUCTION GRANT COALITION
MEMORANDUM OF AGREEMENT
BETWEEN
THE CITY OF PHOENIX
AND
CITY OF MESA, CITY OF TEMPE, MARICOPA COUNTY
AND OFFICE OF THE GOVERNOR OF THE STATE OF ARIZONA**

This CLIMATE POLLUTION REDUCTION GRANT COALITION MEMORANDUM OF AGREEMENT ("Agreement") is entered into by and between the CITY OF PHOENIX, an Arizona municipal corporation (the "City"), and the CITY OF MESA ("Coalition Member"), the CITY OF TEMPE ("Coalition Member"), MARICOPA COUNTY ("Coalition Member"), and the OFFICE OF THE GOVERNOR OF THE STATE OF ARIZONA ("Coalition Member") (individually referred to as "Party" and collectively referred to as the "Parties") to set forth the objectives, understandings, and agreements between the Parties from the Resilient Maricopa-Pinal County Region Priority Climate Implementation Plan ("CPRG Coalition") grant.

RECITALS

WHEREAS the City, upon award of the CPRG Coalition grant, will enter into a Cooperative Agreement (as defined in 2 CFR § 200.1) with the EPA to serve as lead applicant for the CPRG Coalition grant.

WHEREAS the Federal award, Funding Opportunity Number EPA-R-OAR-CPRGI-23-07, Assistance Listing number: 66.046, is subject to, and the City is responsible for complying with, the provisions of "Cooperative agreement," "Grant-Specific Programmatic Terms & Conditions" ("Programmatic T&Cs"), "EPA General Terms and Condition" ("EPA T&Cs"), "EPA Subaward Policy," 2 CFR Part 200, 2 CFR Part 1500, 40 CFR § 33, and other applicable federal and state laws.

WHEREAS, Maricopa-Pinal County Region Priority Climate Action Plan (PCAP) was developed to reduce Greenhouse House Gases (GHG) emissions and improve air quality for nearly 5 million people in the region.

WHEREAS, to implement the PCAP, a coalition was formed which shares a strong and substantial commitment to measures that would reduce GHG, mitigate air pollution, and engage the community through workforce development and education.

WHEREAS, each Coalition Member commits to support the goals and objectives of this effort by implementing performance measurable projects that reduce GHG and improve air quality.

WHEREAS the City desires to make a Subaward to the Coalition Members to implement and manage grant eligible, performance measurable projects that reduce GHG ("CPRG Activities") identified by each Coalition Member, attached as exhibits and incorporated into this Agreement.

WHEREAS the Coalition Members desire, and are appropriately qualified, to receive a Subaward from the City to carry out the CPRG Activities; and

WHEREAS the City is authorized to make a Subaward to the Coalition Members to carry out the CPRG Activities by City Council Ordinance S-50527 dated January 24, 2024.

NOW, THEREFORE, in consideration of the promises and mutual covenants herein contained, and other good and valuable consideration, the receipt of which is hereby acknowledged, the Parties hereto, intending to be legally bound, do hereby agree as follows:

AGREEMENT

1. OVERVIEW.

- 1.1. Recitals. The recitals set forth above are incorporated herein by this reference.
- 1.2. Definitions. Unless otherwise defined herein, capitalized terms used herein shall have the meanings given to them in 2 CFR § 200.1.
- 1.3. Roles. For the purposes of this Agreement, the City is the Cooperative agreement Recipient (“CAR”) and Pass-Through Entity (“PTE”), while the Coalition Members are each a Subawardee of the City.
- 1.4. Purpose. The purpose of this Agreement is to carry out the CPRG Activities and to establish the roles and responsibilities of the Parties.
- 1.5. Description of the Subaward. The City is making a Subaward to Coalition Members for CPRG Activities more fully detailed in Exhibits A, B, C, and D (including an “Approved Budget”) and incorporated into this Agreement. Coalition Members may seek reimbursement for approved costs associated with the performance of the CPRG Activities not to exceed the total amounts as follows:
 - Exhibit A, City of Mesa, ONE HUNDRED MILLION, ONE HUNDRED SIX THOUSAND, ONE HUNDRED SIXTY-FOUR dollars, \$100,106,164.
 - Exhibit B, City of Tempe, THIRTY-THREE MILLION, FOUR HUNDRED FORTY-FOUR THOUSAND, SIX HUNDRED TWENTY-FOUR dollars, \$33,444,624.
 - Exhibit C, Maricopa County, FIFTY-EIGHT MILLION, SEVEN HUNDRED EIGHTY-FIVE THOUSAND, SEVEN HUNDRED SEVENTEEN dollars, \$58,785,717.
 - Exhibit D, Office of the Governor of the State of Arizona, THIRTY MILLION, TWO HUNDRED FIFTY-TWO THOUSAND, SIX HUNDRED TWELVE dollars, \$30,252,612.

- 1.6. Description of Funds Managed by Phoenix. The City, as lead applicant, shall be reimbursed for costs associated with the performance of the City's CPRG Activities in an amount not to exceed ONE HUNDRED SIXTY-NINE MILLION, THREE HUNDRED FORTY-THREE THOUSAND, SIX HUNDRED EIGHTY-NINE dollars, \$169,343,689.

The City shall be responsible for the management and disbursement of funds allocated to other SubCoalition Members as identified in the CPRG Coalition Grant, including the following:

- Arizona State University, Sustainable Cities Network, ONE MILLION NINE HUNDRED TWENTY-SIX THOUSAND, ONE HUNDRED FORTY-SEVEN dollars, \$1,926,147.
- Maricopa Community Colleges, TWO MILLION SEVEN HUNDRED FORTY-TWO THOUSAND, SEVEN HUNDRED SEVENTY dollars, \$2,742,770
- Microgrids Projects subgrants awarded to eligible, qualified entities and managed and reimbursed by the City in a total amount of THIRTY MILLION dollars, \$30,000,000.
- Fleet Projects subgrants awarded to eligible, qualified entities and managed and reimbursed by the City in a total amount of TWENTY-SIX MILLION, SEVEN HUNDRED EIGHTY-SIX THOUSAND, FIVE HUNDRED AND FIFTY dollars, \$26,786,550.

- 1.7 Term. This Agreement shall govern the performance of the Parties from the date attested to by the City Clerk (the "Effective Date") through January 31, 2030 ("Expiration Date"), unless earlier terminated by a Party in accordance with the terms of this Agreement ("Agreement Term").

2. CITY RESPONSIBILITIES.

- 2.1. The City, as lead applicant for the EPA Cooperative agreement for the CPRG Coalition grant shall have sole responsibility for overall grant administration, fiscal management, and compliance with the Cooperative agreement, including reporting requirements, and execution of the Work Plan.
- 2.2. The City shall monitor Coalition Members for compliance with CPRG Coalition Grant Activities as described in Exhibits A, B, C, D, E, and the CPRG Coalition Grant Work Plan ("Work Plan"), Exhibit F, on a bi-annual basis based on the federal government's fiscal year period of October 1 through September 30. The City will review, both programmatically and financially, to ensure that the project goals, objectives, performance requirements, timelines, milestone completion, budgets, and other related program criteria, are being met and can request written or digital copies of information reviewed. Monitoring will be accomplished through a combination of office-based

reviews, onsite monitoring visits, conference calls, and virtual meetings. Monitoring can involve aspects of the work involved under this Agreement including, but not limited to the review and analysis of the financial, programmatic, performance, and administrative issues relative to each Coalition Member, and will identify areas where technical assistance and other support may be needed. Coalition members agree to be subject to review and monitoring under this Agreement. All on-site monitoring shall take place during normal business hours, upon advance written notice, on dates and at times as mutually agreed upon by the City and the Coalition Member.

- 2.3. The City shall be responsible for revisions to the CPRG Coalition Grant Work Plan that was submitted to the EPA. Revisions may be submitted by the Coalition Members or the City and must be approved by all Coalition members. The City will notify the requesting Coalition Member of the approval or disapproval of the revision request within five (5) business days of receipt from the EPA.
- 2.4. The City shall be solely responsible for funding reimbursement requests from Coalitions Members based upon review of compliance with the Coalition Member's Workplan and Budget as described in Exhibits A, B, C, and D.
- 2.5. The City shall review disbursements from Coalition Members on a form approved by the City and Coalition Members. Coalition Members will make requests for disbursements monthly or no less than quarterly. The City will use best efforts to process requests for disbursements within thirty (30) calendar days of receipt. Upon request in limited instances to facilitate the completion of a project, the City will use best efforts to process requests for disbursements within ten (10) working days of receipt.
- 2.6. The City shall establish an interest-bearing account for deposit of advances from EPA. Coalition members shall determine how the interest accrued will be spent in accordance with requirements of the Cooperative Agreement.
- 2.7. The City shall comply with all Coalition Member responsibilities established in Section 3 of this Agreement.

3. COALITION MEMBER RESPONSIBILITIES.

- 3.1. Scope of Services. The Coalition Members, who are subgrant recipients, shall be accountable to the City to complete work in accordance with the Work Plan in Exhibit F for proper use of the CPRG Coalition grant funds. Any revision to the Work Plan shall be submitted to the City and Coalition Members for review in a timely manner. Upon approval of the revision by the City and Coalition Members, the City shall submit the request for revision to EPA for approval and notify the Coalition Members according to Section 2.3. Coalition Members will not proceed with the revisions until EPA approval has been received by the City.

3.2. Records Retention and Access. Coalition members shall maintain all records, books, papers, and other documents related to its performance of CPRG Activities under this Agreement (including without limitation personnel, property, financial and medical records) through at least January 31, 2030, and in accordance with the grant award, or such longer period as is necessary for the resolution of any litigation, claim, negotiation, audit, or other inquiry involving this Agreement. Coalition Members shall make all records, books, papers, and other documents that relate to this Agreement available at all reasonable times for inspection, review, and audit by the authorized representatives of City, the US Department of Treasury, the US Government Accountability Office, and any other authorized state or federal oversight office. Coalition Members will allow the City and its authorized representatives access to these records at any time during normal business hours.

3.3 Audits and Access to Records. Coalition Members certify compliance with applicable provisions of 2 CFR §§ 200.501 – 200.521, and continued compliance with these provisions during the term of this section. If Coalition Members are not required to have a Single Audit as defined by 2 CFR § 200.501, US Department of Treasury requirements, or the Single Audit Act, then Coalition Members shall have a financial audit performed yearly by an independent Certified Public Accountant. Coalition Members shall provide notice of the completion of any required audits and will provide access to such audits and other financial information related to the Agreement upon request. Coalition Members certifies that it will provide City with notice of any adverse findings which impact this Agreement. This obligation extends for one year beyond the expiration or termination of this Agreement.

3.3.1 Federal. Consistent with Uniform Guidance (UG) compliance requirements, including the standards in 2 CFR § 200.318 for the acquisition of property, equipment, supplies, or services required under this Agreement, Coalition Members shall adopt and enact procurement procedures to the extent such procedures have not already been enacted. Coalition Members' documented procurement procedures must conform to the procurement standards identified in Subpart D of 2 CFR Part 200 (Procurement Standards). Such standards include, but are not limited to, the following:

(a) All procurement transactions for property or services shall be conducted in a manner providing full and open competition, consistent with standards outlined in 2 CFR § 200.320(1) – (3) and (5), which allows for non-competitive procurements only if either: (1) the item is below the micro-purchase threshold; (2) the item is only available from a single source; (3) the public exigency or emergency will not permit a delay from publicizing a competitive solicitation; or (4) after solicitation of a number of sources, competition is determined inadequate.

- (b) Coalition Members shall maintain oversight to ensure that contractors perform in accordance with the terms, conditions, and specifications of their contracts or purchase orders.
 - (c) Coalition Members shall maintain written standards of conduct covering conflicts of interest and governing the actions of its employees engaged in the selection, award, and administration of contracts in conformance with 2 CFR § 200.318(c). Coalition Members shall immediately disclose in writing to City any potential conflict of interest affecting the awarded funds in accordance with 2 CFR § 200.112.
 - (d) Pursuant to 2 CFR § 200.321, Coalition Members shall take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible.
 - (e) Coalition Members shall “maintain records sufficient to detail the history of procurement. These records will include but are not necessarily limited to the following: rationale for the method of procurement, selection of contract type, contractor selection or rejection, and the basis for the contract price.” 2 CFR § 200.318(i).
- 3.4 Reporting Requirements. The City will notify the Coalition Members of the CPRG Coalition grant close out requirements and will obtain necessary information from Coalition Members to satisfy grant close out reporting requirements. The Coalition Members will submit to the City, within fifteen (15) calendar days of the end of each calendar quarter, January 15, April 15, July 15, September 15, in the format prescribed by the City, a quarterly report of their performance under this Agreement.
- 3.5. Budget. Coalition Members shall perform the CPRG Activities in accordance with the budget period as approved by the City and EPA and attached hereto as Exhibits A, B, C, and D (Approved Budget) and incorporated herein by this reference.
- 3.6. The Coalition Members shall comply with Davis-Bacon Act prevailing wage requirements and associated U.S. Department of Labor (“DOL”) regulations for all construction, alteration, and repair contracts and subcontracts awarded with funds under this agreement and shall provide documentation of Davis-Bacon Act compliance to the City.
- 3.7. The Coalition Members shall comply with Build America, Buy America Act (BABA) provisions of the Infrastructure Investment and Jobs Act (IIJA) (P.L. 117-58, §§70911-70917). These provisions apply when a Coalition Member uses federal funds for the purchase of goods, products, and materials on any form of construction, alteration, maintenance, or repair of public infrastructure in the United States. The Buy America preference requirement applies to all of the iron and steel, manufactured products, and construction materials used in an infrastructure project. Coalition members shall provide documentation of BABA compliance to the City.

- 3.8. During the term of this Agreement, the Coalition Member must conduct an annual audit in accordance with OMB Circular A-133 (“Audits of States, Local Governments, and Non-profit Organizations”), if the Coalition Member expends more than five hundred thousand dollars (\$500,000) from Federal awards, in compliance with the Federal Single Audit Act (31 U.S.C. par. 7501-7507), as amended by the Single Audit Act Amendments of 1996 (P.L. 104 to 156). If the Coalition Member has expended more than five hundred thousand dollars (\$500,000) in Federal funds prior to executing this Agreement, a copy of the Coalition Member’s audit report for the previous expenditure must be submitted to the City for review within thirty (30) days of signing this Agreement.

4. JOINT CITY AND COALITION MEMBER RESPONSIBILITIES.

- 4.1 SubCoalition Member Management. The City shall be responsible for awarding subgrants to eligible, qualified entities and for management and disbursement of CPRG Coalition Grant funds for the Microgrids Projects and Fleet Projects subgrants as described in Section 1.6.

4.1.1 The City and Coalition Members will develop a subgrant application, identify the amount of annual awards, including minimums and maximums, establish evaluation criteria that meets CPRG Coalition grant requirements, establish a yearly schedule for announcement of subgrant opportunities, and identify outreach materials.

4.1.2 The City and Coalition Members will conduct outreach to eligible entities through available communication methods and best practices, such as website and social media.

4.1.3 The City and Coalition Members will evaluate subgrant applications and award subgrants based on the criteria established by the Parties.

- 4.2. Meetings. Meetings of the Parties shall be convened by the City at least four (4) times per year. Additional meetings shall be convened at the request of the City or Coalition Members on an as-needed basis. No meeting shall be held unless all Parties representatives are given notice a minimum of 10 days in advance, except when the participants agree to conduct a meeting and waive the meeting notice requirements.
- 4.3. Convener. The City shall, in consultation with the Coalition Members prepare agendas and facilitate meetings. The City may designate other Coalition Members to assume the duties of Convener in its absence.
- 4.4. Quorum. A quorum for the Parties shall consist of not less than three (3) Coalition members. The Parties representative must be present either in person, phone, or through a virtual medium to be counted in the quorum. In the event of a Parties absence, that Party may send a substitute who is authorized, by written proxy, to participate and vote.

- 4.5. Decision-making. It is the intent of the Parties that decisions affecting more than one Party may be made with the Parties majority vote of three (3) of the five (5) Coalition members.
- 4.6. Record of Decisions. The Parties decisions and the rationale for approval or denial of any funding shall be recorded in writing and maintained in adherence with grant recordkeeping requirements. Minutes of meetings may be recorded.

5. FEDERAL REQUIREMENTS.

- 5.1. General Compliance. The City and Coalition Members shall perform all activities funded by this Agreement in accordance with this Agreement, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards, 2 CFR Part 200, and all applicable federal, state, and local requirements, including all applicable statutes, rules, regulations, executive orders, directives, or other requirements.

6. FINANCIAL REIMBURSEMENTS AND RECOUPMENT

- 6.1. Payment of Funds. The City agrees to reimburse Coalition Members for costs incurred to carry out CPRG Activities in accordance with the Approved Budget. CPRG Coalition Grant funds shall not be expended prior to grant award. Costs incurred are only those that are necessary and allowable to carry out the purposes and activities of the CPRG Activities and shall not exceed the maximum limits set in the Approved Budget.
- 6.2. Advance of Funds. The City may, at its sole discretion, advance a Party a portion of the CPRG Coalition grant funds for costs that will be incurred by a Party in accordance with the CPRG Coalition Grant Activities and Budget as described in Exhibits A through E under this Agreement.
 - 6.2.1 The City agrees to advance a Party up to fifty percent (50%) of the Qualifying Costs/Expenditures. "Qualifying Costs/Expenditures" are defined as those allowable expenses described in the Detailed Budget Table in Section 5 of Exhibits A through E under this Agreement. Parties shall submit a written request in a format agreed upon by the City and Coalition Members. After review, the City has the sole discretion to approve or decline any request for advancement of funds.
 - 6.2.2 If an advance payment was approved by the City, prior to payment of the remaining CPRG Coalition grant funds, requested by a party, the Party must provide documentation to the City that describes how the Qualifying Costs/Expenditures were spent. The City will review the documentation for

compliance with the Approved Budget and shall notify the Party as to any discrepancies and provide an opportunity for the Party to correct discrepancies.

- 6.3.3 Any advance of CPRG Coalition grant funds is subject to potential cancellation, recoupment, rescission, payback, or other action if the City determines that the advanced CPRG Coalition grant funds were unallowable or applicable law requires such action.
- 6.3. Invoices. On or before the fifteenth (15th) day of each month and in any event no later than sixty (60) days after costs are incurred, Coalition Members shall submit invoices and associated receipts and documentation, in a format agreed upon by the City and Coalition Members, for the most recent month ended to the City by electronic mail to Nancy Allen, nancy.allen@phoenix.gov, setting forth actual expenditures of Coalition Members in accordance with approved CPRG Activities established in Exhibits A – D and this Agreement. If an invoice will not be submitted on or before the fifteenth (15th) of the month, the Coalition Member will notify the City that no invoice is submitted for the month, by electronic mail to Nancy Allen, nancy.allen@phoenix.gov. The City will review a submitted invoice for compliance with the Approved Budget. The City shall notify Coalition Members as to any discrepancies and provide one additional opportunity to Coalition Members to correct the reimbursement claim. Upon correction of the discrepancy, the City will disburse the funds without further notice to be paid within thirty (30) calendar days.
- 6.4. Financial Management. The Parties shall maintain a financial management system and financial records related to all transactions with funds received pursuant to this Agreement and with any program income earned as a result of funds received pursuant to this Agreement. The Parties must administer funds received pursuant to this Agreement in accordance with all applicable federal and state requirements, including the Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards, 2 CFR Part 200, as required by Assistance Listing 21.027. The Parties shall adopt such additional financial management procedures as may from time-to-time be prescribed by City if required by applicable federal or state laws or regulations, or guidelines from US Department of Treasury. The Parties shall maintain detailed, itemized documentation and other necessary records of all income received and expenses incurred pursuant to this Agreement.
- 6.5. Limitations on Expenditures. The City shall only reimburse Coalition Members for documented and approved expenditures incurred during the Agreement Term. Document and approved expenditures shall be: (i) reasonable and necessary to carry out the CPRG Coalition Grant Activities; (ii) documented by contracts or other evidence of liability consistent with the established City, EPA, and Coalition Members procedures; and (iii) incurred in accordance with all applicable requirements for the expenditure of funds payable under this Agreement. City may not reimburse Coalition Members for any

expenditures that are: (i) not documented and approved, (ii) incurred prior to the Effective Date, (iii) incurred following the expiration or termination of this Agreement.

- 6.6. Financial and Other Reports. Coalition Members shall submit to the City such reports and back-up data as may be required by the City or EPA in a format agreed upon by the City and Coalition Members. This provision shall survive the expiration or termination of this Agreement with respect to any reports which Coalition Members are required to submit to City following the expiration or termination of this Agreement.
- 6.7. Improper Payments. Any item of expenditure by a Party under the terms of this Agreement which is found by auditors, investigators, and other authorized representatives of the City, EPA, or other federal or state instrumentality to be improper, unallowable, in violation of federal or state law, or the terms of this Agreement, or involving any fraudulent, deceptive, or misleading representations or activities of the Party (an Improper Payment), such payment shall become that Party's liability, and shall be paid solely by that Party, immediately upon notification of such, from funds other than those provided by City under this Agreement or any other agreements between the City and Coalition Members. This provision shall survive the expiration or termination of this Agreement.
- 6.8. Payment Recoupment. In the event of a finding per Section 6.6, the offending Party shall reimburse the City upon written demand. If recoupment is not timely made the offending Party, the Party agrees the City may deduct from future payments any amounts paid to the offending Party for expenditures found to be improper, unallowable, in violation of federal or state law, or the terms of this Agreement, or involving any fraudulent, deceptive, or misleading representations or activities of the offending Party. This provision shall survive the expiration or termination of this Agreement.

7. DEFAULT AND TERMINATION.

- 7.1. Termination for Cause. The City may terminate this Agreement for cause after three days written notice. Cause may include, and not be limited to, misuse of funds, fraud, lack of compliance with applicable rules, laws and regulations, failure to perform on time, or failure to comply with any of the requirements of this Agreement.
- 7.2. Termination by Mutual Agreement. The City and Coalition Members may agree to terminate this Agreement for their mutual convenience through a written amendment to this Agreement. The amendment will state the effective date of the termination and the procedures for proper closeout of the Agreement.
- 7.3. Termination Procedures. If this Agreement is terminated, Coalition Members may not incur obligations after Coalition Members have received the notification of termination. Coalition Members must cancel as many outstanding obligations as possible. Costs

incurred after receipt of the termination notice will be disallowed. Coalition Members shall not be relieved of liability to City because of any breach of an agreement by Coalition Members. The City may, to the extent authorized by law, withhold payments to Coalition Members for the purpose of set-off until the exact amount of damages due the City from Coalition Members is determined.

8. GENERAL CONDITIONS.

- 8.1. Insurance Requirement. Coalition Members must maintain insurance policies with the minimum limits as described in Exhibit G ("Insurance Requirements") and incorporated herein by this reference. Coalition Members may comply with this requirement through proof of self-insurance.
- 8.2. Indemnification. Coalition Members ("Indemnitor") must defend, indemnify, and hold harmless the City and its officers, officials (elected or appointed), agents, and employees ("Indemnitee") from and against any and all claims, actions, liabilities, damages, losses or expenses (including but not limited to court costs, attorney fees, expert fees, and costs of claim processing, investigation and litigation) of any nature or kind whatsoever ("Losses") caused, or alleged to be caused, in whole or in part, by the wrongful, negligent or willful acts, or errors or omissions of Indemnitor or any of its owners, officers, directors, members, managers, agents, employees or subcontractors ("Indemnitor's Agents") arising out of or in connection with this Agreement. This defense and indemnity obligation includes holding Indemnitee harmless for any Losses arising out of or recovered under any state's Workers' Compensation Law or arising out of the failure of Indemnitor or Indemnitor's Agents to conform to any federal, state, or local law, statute, ordinance, rule, regulation, or court decree. Indemnitor's duty to defend Indemnitee accrues immediately at the time a claim is threatened or a claim is made against Indemnitee, whichever is first. Indemnitor's duty to defend exists regardless of whether Indemnitor is ultimately found liable. Indemnitor must indemnify Indemnitee from and against any and all Losses, except where it is proven that those Losses are solely a result of Indemnitee's own negligent or willful acts or omissions. Indemnitor will be responsible for primary loss investigation, defense, and judgment costs where this indemnification applies. In consideration of the award of this Agreement, Indemnitor waives all rights of subrogation against Indemnitee for losses arising from the Scope of Services performed by Indemnitor or Indemnitor's Agents for the City. The obligations of Indemnitor under this provision survive the termination or expiration of this Agreement.

Each party (as "Indemnitor") agrees to indemnify, defend, and hold harmless the other party (as "Indemnitee") from and against any and all claims, losses, liability, costs, or expenses (including reasonable attorney's fees) ("Claims"), but only to the extent that such Claims which result in vicarious/derivative liability to the Indemnitee are caused by the act, omission, negligence, misconduct, or other fault of the Indemnitor, its officers, officials, agents, employees, or volunteers.

Each party must use its best efforts to cause all contractors (each an “Additional Indemnitor”) to indemnify, defend, save and hold harmless the other party from and against any and all Claims caused, or alleged to be caused, in whole or in part, by the negligent or willful acts or omissions of the Additional Indemnitor [and persons for whom they are vicariously liable].

- 8.3. Venue and Jurisdiction. This Agreement is executed and delivered in the State of Arizona, and the substantive laws of the State of Arizona (without reference to choice of law principles) will govern their interpretation and enforcement. Any action brought to interpret or enforce any provision of this Agreement that cannot be administratively resolved, or otherwise related to or arising from this Agreement, will be commenced and maintained in the state or federal courts of the State of Arizona, Maricopa County, and each of the Parties, to the extent permitted by law, consents to jurisdiction and venue in such courts for such purposes.
- 8.4. Nonwaiver. No action or failure to act by the City constitutes a waiver of any of its rights or remedies that arise out of this Agreement, nor shall such action or failure to act constitute approval of or acquiescence in a breach of this Agreement, except as specifically agreed in writing.
- 8.5. Limitation of City Authority. Nothing contained in this Agreement may be deemed or construed to in any way stop, limit, or impair the City from exercising or performing any regulatory, policing, legislative, governmental, or other powers or functions.
- 8.6. Severability. If any provision of this Agreement is determined to be unenforceable in a judicial proceeding, the remainder of this Agreement will remain in full force and effect to the extent permitted by law.
- 8.7. Successors and Assigns; Assignment. This Agreement is binding upon the Parties and respective successors and assign. Coalition Members may not assign or delegate any of its rights or duties that arise out of this Agreement without City’s prior written consent. Unless City otherwise agrees in writing, Coalition Members and all assigns are subject to all City’s defenses and are liable for all Coalition Member’s duties that arise from this Agreement and all City’s claims that arise from this Agreement.
- 8.8. Integration. This Agreement contains the entire agreement between the Parties pertaining to the subject matter of this Agreement. With respect to that subject matter, there are no promises, agreements, conditions, inducements, warranties, or understandings, written or oral, expressed, or implied, between the Parties, other than as set forth or referenced in this Agreement.
- 8.9. Notices. All notices and other communication required or permitted by this Agreement must be in writing and be either given by: (i) personal delivery; (ii) sent via e-mail, return

receipt requested; (iii) sent via facsimile transmission; (iv) any commercial air courier or express delivery service; or (v) United States mail, postage prepaid, addressed as follows:

If to City of Mesa:

Scott Bouchie, Energy and Sustainability Director
City of Mesa
640 N Mesa Drive, MS 5030
Mesa, AZ 85201-1466
Phone: (480) 644-4366
Email: Scott.Bouchie@mesaaz.gov

If to City of Tempe:

Brianne Fisher, Climate Action Manager
City of Tempe
Transportation & Sustainability Department
200 E. 5th Street, 2nd Floor
Tempe, AZ 85281
Phone: (480) 350-8959
Email: brianne_fisher@tempe.gov

If to Maricopa County:

Philip McNeeley, Director
Maricopa County
Air Quality Department
301 W. Jefferson St., Suite 410
Phoenix, AZ 85003
Phone: 602-506-6010
Email: Philip.McNeely@maricopa.gov

If to Office of the Governor of the State of Arizona:

Gabriel Sanchez Munoz, Energy Grants Program Manager
Arizona Governor's Office of Resiliency
1700 W. Washington St
Phoenix, AZ 85007
Phone: (602) 541-3987
Email: gsanchezmunoz@az.gov

If to City:

Nancy Allen, Environmental Programs Administrator
City of Phoenix
Office of Environmental Programs
200 West Washington Street, 14th Floor
Phoenix, AZ 85003-1611

Phone: (602) 256-5652
Email: nancy.allen@phoenix.gov

- 8.10. No Third-Party Beneficiaries. This Agreement is not intended to constitute, create, or give rise to, or otherwise recognize a joint venture, partnership or formal business association or organization of any kind, and the rights and obligations of the Parties will be only those expressly set forth in this Agreement.
- 8.11. Employment Disclaimer. Coalition Members agree that no person supplied by it in performance of the Agreement is an employee of the City and further agrees that no rights of City's Civil Service, Retirement, or Personnel Rules accrue to any such persons. Coalition Members shall have total responsibility for all salaries, wages, bonuses, retirements, withholdings, worker's compensation and occupational disease compensation insurance, unemployment compensation other benefits, and taxes and premiums appurtenant thereto concerning such persons.
- 8.12. Legal Worker Requirements. Coalition Members warrant their compliance with all federal immigration laws and regulations and A.R.S. § 23-214(A). The City shall have the right to inspect Coalition Members records to ensure that compliance with this warranty. The City may terminate this Agreement for a breach of this warranty.
- 8.13. Confidentiality and Data Security. All data, regardless of form, including originals, images, and reproductions, prepared, obtained, or transmitted in connection with this Agreement is confidential, proprietary information and is the property of the Coalition Member that generated data from grant eligible, performance measurable projects and approved CPRG Coalition Activities, as described in Exhibits A through E. Upon request by the City or other Coalition members, all Coalition Members agree to share necessary and relevant data generated by the CPRG Activities for purposes of compliance with the CPRG grant award, the Cooperative Agreement, and other relevant and specific grants award requirements.

Coalition members agree to appropriately manage their personal identifying information, financial account information, or other restricted data or information, regardless of format, including data saved to any computers, electronic devices, or storage drives. Coalition members agree to encrypt and/or password protect data and information at all times to avoid unauthorized access. When personal identifying information, financial account information, or other restricted data or information is no longer needed, the data or information must be redacted and/or destroyed through appropriate methods to ensure that the information cannot be viewed, accessed, or reconstructed.

- 8.14. Amendments. This Agreement may not be amended, modified, or waived as to any particular provision, except by a written instrument executed by the Parties.

- 8.15. No Israel Boycott. By entering into this Agreement, Coalition Members certify that Coalition Members are not currently engaged in, and agrees for the duration of the Agreement, not to engage in a boycott of Israel as defined by A.R.S. § 35-396.
- 8.16. Conflicts Of Interest. This Agreement is subject to the requirements of A.R.S. § 38-511. Coalition Members acknowledges that, to the best of its knowledge, information and belief, no person has been employed or retained to solicit or secure this Agreement upon a promise of a commission, percentage, brokerage, or contingent fee, and that no member of the Phoenix City Council or any employee of the City has any financial interest in the Coalition Members. For breach of violation of this warranty, the City will have the right to annul this Agreement without liability, including any such commission, percentage, brokerage, or contingent fee. Upon a finding by the City that gratuities in the form of entertainment, gifts or inducements were offered or given by Coalition Members, or any agent or representative of Coalition Members, to any officer or employee of the City for the purpose of securing this Agreement, or securing favorable treatment with respect to the awarding, amending, or making of any determination with respect to the performance of this Agreement, the City may, by one calendar day written notice to Coalition Members, terminate the right of Coalition Members to proceed under this Agreement, provided that the existence of the facts upon which the City made such finding will be an issue and may be litigated in an Arizona court of competent jurisdiction. In the event of such termination, the City will be entitled to the same remedies against Coalitions Members as could be pursued in the event of default by Coalition Members.
- 8.17. Claims Or Demands Against The City. Coalition Members acknowledges and accept the provisions of Chapter 18, Section 14 of the Charter of the City of Phoenix, pertaining to claims or demands against the City, including provisions therein for set-off of indebtedness to the City against demands on the City, and agrees to adhere to the prescribed procedure for presentation of claims and demands. Nothing in Chapter 18, Section 14 of the Charter of the City of Phoenix alters, amends, or modifies the supplemental and complementary requirements of the Arizona Notice of Claim statutes, A.R.S. §§ 12-821 and 12-821.01, pertaining to claims or demands against the City. If for any reason it is determined that the City Charter and state law conflict, then state law shall control. Moreover, nothing in this Agreement shall constitute a dispute resolution process, an administrative claims process, or contractual term as used in A.R.S. § 12-821.01(C), sufficient to affect the date on which the cause of action accrues within A.R.S. § 12-821.01(A) and (B).
- 8.18. Contacts With Third Parties. Except for disclosure of information for procurement purposes, the City and its subcontractors and any Coalition Members or their subcontractors shall provide advance written notice to the City and all other Coalition Members, as applicable, before contacting third parties to provide any information not previously released to the public relating to the services provided under this Agreement. Should the City or its subcontractors or any of the Coalition Members or their subcontractors be contacted by any person requesting information or requiring testimony

relative to the services provided under this Agreement or any related prior or existing Agreement with the City, such parties shall promptly inform the City and all other Coalition Members, as applicable, giving the particulars of the information sought, and shall not disclose such information or give such testimony without having provided such prior notice to the City and Coalition Members, as applicable, unless required to do so by applicable law. Coalition Members agree that the requirements of this provision shall be incorporated into all subcontractors' agreements entered into by the Coalition Members. A violation of this provision may result in immediate termination of this Agreement without notice. This provision shall survive the expiration or termination of this Agreement.

[SIGNATURES APPEAR ON FOLLOWING PAGES]

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their duly constituted legal representatives and is effective as of the Effective Date.

CITY OF PHOENIX, a municipal corporation
JEFFREY BARTON, City Manager

NANCY ALLEN
OFFICE OF ENVIRONMENTAL PROGRAMS

ATTEST:

City Clerk

APPROVED AS TO FORM:
Julie M. Kreigh, City Attorney

By: _____
Assistant Chief Counsel

CITY OF MESA

SIGNATURE

PRINTED NAME

TITLE

DATE

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their duly constituted legal representatives and is effective as of the Effective Date.

CITY OF PHOENIX, a municipal corporation
JEFFREY BARTON, City Manager

NANCY ALLEN
OFFICE OF ENVIRONMENTAL PROGRAMS

ATTEST:

City Clerk

APPROVED AS TO FORM:
Julie M. Kreigh, City Attorney

By: _____
Assistant Chief Counsel

CITY OF TEMPE

Corey D. Woods, Mayor of Tempe

ATTEST:

Kara A. DeArrastia, City Clerk

APPROVED AS TO FORM:

Eric C. Anderson, City Attorney

SIGNATURE

PRINTED NAME

TITLE

DATE

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their duly constituted legal representatives and is effective as of the Effective Date.

CITY OF PHOENIX, a municipal corporation
JEFFREY BARTON, City Manager

NANCY ALLEN
OFFICE OF ENVIRONMENTAL PROGRAMS

ATTEST:

City Clerk

APPROVED AS TO FORM:
Julie M. Kreigh, City Attorney

By: _____
Assistant Chief Counsel

MARICOPA COUNTY:

Jack Sellers, Chairman
Maricopa County Board of Supervisors

Date

Attest by:

Juanita Garza, Clerk of the Board
Maricopa County

Date

Approved as to Form:

Undersigned counsel has reviewed the foregoing Agreement and determined it is in proper form and within the powers and authority granted under the laws of the State of Arizona.

Max G. Carpinelli, Deputy County Attorney
Maricopa County

Date

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their duly constituted legal representatives and is effective as of the Effective Date.

CITY OF PHOENIX, a municipal corporation
JEFFREY BARTON, City Manager

NANCY ALLEN
OFFICE OF ENVIRONMENTAL PROGRAMS

ATTEST:

City Clerk

APPROVED AS TO FORM:
Julie M. Kreigh, City Attorney

By: _____
Assistant Chief Counsel

**OFFICE OF THE GOVERNOR OF THE
STATE OF ARIZONA**

SIGNATURE

PRINTED NAME

TITLE

DATE

Exhibit A – City of Mesa, Workplan, Schedule, Budget

1. Description of Work Plan

Project 1: City of Mesa Fleet Electrification and Charging Infrastructure Development (Fleet Electrification). This measure funds the transition of public fleets to electric vehicles (EVs) and the installation of EV charging infrastructure (including utility upgrades). Projects include the procurement of light-duty service municipal vehicles. This measure is highly effective in achieving near-term pollutant emission reductions.

Project 2: Food Waste to Energy – Pre-processing Facility and Water Reclamation Plant Upgrades. This project will repurpose a former landfill site by constructing a pre-processing facility for food waste, which will divert organic waste from local landfills. Associated upgrades to Mesa’s water reclamation plant will install a receiving station and equipment to inject the processed food waste into existing anaerobic digesters on site, which will generate biogas from the food waste, providing a renewable energy source while using existing infrastructure to maximize project benefits.

In addition to the GHG emissions avoided (from landfill, flare, and fossil fuel vehicle use), the project will extend the life of landfills and provide a local supply of renewable natural gas (RNG), which will be used to power Mesa’s solid waste vehicle fleet.

2. Schedule

The schedule for completion of the CPRG Coalition Grant Activities is from the effective date of this Agreement through January 31, 2030. Funds awarded must be expended by September 30, 2029.

Estimated advance payments shown in this table.

Federal Fiscal Year	Quarter	Project 1: Fleet Electrification - Description of Activities
10/01/2024 to 09/30/2025	Quarter 1 Oct-Dec 2024	Plan for grant implementation, hire and onboard grant-funded positions, refine site selection and placement criteria for EV Charging Stations, identify vehicle ordering windows, adjust Engineering contracts and Fleet contracts, as needed to meet grant requirements. Issue Request for Proposal/Bid, comply with all federal requirements. Request advance to pay for first phase annual work goal - \$6,128,000.
	Quarter 2 Jan-Mar 2025	Annual Goal: <ul style="list-style-type: none">First phase design work, permitting, and construction of charging infrastructure and

		<p>electrical upgrades at ~4 sites for 90 – 120 L2 EV chargers and 5 – 10 DCFC chargers.</p> <ul style="list-style-type: none"> • Use City's Asset Management System to identify vehicle needs, purchase 75 electric vehicles.
	Quarter 3 Apr-June 2025	Continue working to meet annual goal.
	Quarter 4 Jul-Sep 2025	Continue working to meet annual goal.
10/01/2025 to 09/30/2026	Quarter 1 Oct-Dec 2025	<p>Request advance to pay for second phase annual work goal - \$6,021,000.</p> <p>Annual goal:</p> <ul style="list-style-type: none"> • Second phase design work, permitting, and construction of charging infrastructure and electrical upgrades at ~8 sites for 90 – 120 L2 EV chargers and 5 – 10 DCFC chargers. • Use City's Asset Management System to identify vehicle needs, purchase 75 electric vehicles.
	Quarter 2 Jan-Mar 2026	Continue working to meet annual goal.
	Quarter 3 Apr-June 2026	Continue working to meet annual goal.
	Quarter 4 Jul-Sep 2026	Continue working to meet annual goal.
10/01/2026 to 09/30/2027	Quarter 1 Oct-Dec 2026	<p>Request advance to pay for third phase annual work goal - \$6,024,000.</p> <p>Annual Goal:</p> <ul style="list-style-type: none"> • Third phase design work, permitting, and construction of charging infrastructure and electrical upgrades at ~6 sites for 90 – 120 L2 chargers and 5 – 10 DCFC chargers. • Use City's Asset Management System to put together vehicle purchase list, purchase 75 electric vehicles.
	Quarter 2 Jan-Mar 2027	Continue working to meet annual goal.
	Quarter 3 Apr-June 2027	Continue working to meet annual goal.
	Quarter 4 Jul-Sep 2027	Continue working to meet annual goal.
10/01/2027 to 09/30/2028	Quarter 1 Oct-Dec 2027	<p>Request advance to pay for fourth phase annual work goal - \$7,110,000.</p> <p>Annual Goal:</p>

		<ul style="list-style-type: none"> • Fourth phase design work, permitting, and construction of charging infrastructure and electrical upgrades for at ~8 sites for 90 – 120 L2 chargers and 5 – 10 DCFC chargers. • Use City's Asset Management System to put together vehicle purchase list, purchase 75 electric vehicles.
	Quarter 2 Jan-Mar 2028	Continue working to meet annual goal.
	Quarter 3 Apr-June 2028	Continue working to meet annual goal.
	Quarter 4 Jul-Sep 2028	Continue working to meet annual goal.
10/01/2028 to 09/30/2029	Quarter 1 Oct-Dec 2028	<p>Request advance to pay for fifth phase of annual work goal – \$4,625,000.</p> <p>Annual Goal:</p> <ul style="list-style-type: none"> • Fifth phase design work, permitting, and construction of charging infrastructure and electrical upgrades – 1 large service center site for 90 – 120 L2 chargers and 5 – 10 DCFC chargers). • Use City's Asset Management System to put together vehicle purchase list, purchase 75 electric vehicles.
	Quarter 2 Jan-Mar 2029	Continue working to meet annual goal.
	Quarter 3 Apr-June 2029	Continue working to meet annual goal.
	Quarter 4 Jul-Sep 2029	<p>Verify completion of the following Output Goals:</p> <ul style="list-style-type: none"> • Have 375 EVs in fleet or ordered and paid for • Have 550 Level 2 and 25 direct current fast charging (DCFC) charging stations installed or in final stages of installment. • All funds expended by this quarter.
Final Report Submission	Oct 2029 to Jan 2030	Final report due within 120 calendar days of grant expiration.

Federal Fiscal Year	Quarter	Project 2: Food Waste To Energy Project – Description of Activities
10/01/2024 to 09/30/2025	Quarter 1 Oct-Dec 2024	<p>Plan for grant implementation, hire, and onboard grant-funded positions.</p> <p>Request advance to pay for annual work goal - \$7,644,000.</p> <p>Annual Goal/Planning phase:</p> <ul style="list-style-type: none"> • Complete design of food waste and other organic waste processing facility, wastewater treatment plant facility upgrades and modular gas upgrading system. • Coordinate food waste and other organic waste sources and diversion program planning. • Complete a technical review of feedstock percentages and quality standards to ensure anaerobic digestion efficacy will be sustained. • Adjust Engineering contracts and Procurement contracts, as needed to meet grant requirements.
	Quarter 2 Jan-Mar 2025	Continue working to meet annual goal.
	Quarter 3 Apr-June 2025	Continue working to meet annual goal.
	Quarter 4 Jul-Sep 2025	Receive Council approval for construction contracts and order long lead time equipment.
10/01/2025 to 09/30/2026	Quarter 1 Oct-Dec 2025	<p>Request advance to pay for annual work goal - \$9,172,000.</p> <p>Annual Goal: Begin construction of the food waste and other organic waste processing facility, bio slurry receiving station and add additional biogas treatment capacity at the wastewater treatment plant.</p>
	Quarter 2 Jan-Mar 2026	Continue working to meet annual goal.
	Quarter 3 Apr-June 2026	Continue working to meet annual goal.
	Quarter 4 Jul-Sep 2026	Continue working to meet annual goal.
10/01/2026 to 09/30/2027	Quarter 1 Oct-Dec 2026	<p>Request advance to pay for annual work goal - \$10,192,000.</p> <p>Annual Goal: Continue construction of the food waste and other organic waste processing facility, bio slurry receiving station and add additional biogas treatment capacity at the wastewater treatment plant.</p>

	Quarter 2 Jan-Mar 2027	Finalize food waste and other organic waste contracts, including tipping fees and scheduling/routing of collection and delivery vehicles.
	Quarter 3 Apr-June 2027	Continue working to meet annual goal.
	Quarter 4 Jul-Sep 2027	Continue working to meet annual goal.
10/01/2027 to 09/30/2028	Quarter 1 Oct-Dec 2027	Request advance to pay for annual work goal - \$1,020,000. Annual Goal: Finish construction and begin implementation of regional food waste and other organic waste collection and processing program. Begin processing of food waste and other organic waste to ensure bioslurry will meet quality standards. Treatment of additional biogas generated at the wastewater treatment plant to pipeline quality standards for injection of renewable natural gas into natural gas utility.
	Quarter 2 Jan-Mar 2028	Gradually increase amounts of bioslurry that will be introduced to digesters to maximize biogas production.
	Quarter 3 Apr-June 2028	Gradually increase amounts of bioslurry that will be introduced to digesters to maximize biogas production.
	Quarter 4 Jul-Sep 2028	Gradually increase amounts of bioslurry that will be introduced to digesters to maximize biogas production.
10/01/2028 to 09/30/2029	Quarter 1 Oct-Dec 2028	100% implementation.
	Quarter 2 Jan-Mar 2029	
	Quarter 3 Apr-June 2029	Final adjustments.
	Quarter 4 Jul-Sep 2029	All funds expended by this quarter.
Final Report Submission	Oct 2029 to Jan 2030	Final report due within 120 calendar days of grant expiration.

3. Location – Climate and Economic Justice Screening Tool (CEJST)

The location of CPRG Coalition Grant Activities is in accordance with **Exhibit F – Climate and Economic Justice Screening Tool (CEJST) Census Tract IDs.**

4. Environmental Results – Outputs, Outcomes, and Performance Measures

The following outputs, outcomes, and performance measures will be tracked and reported on a quarterly basis with reports submitted to the City, using the template included as Attachment 2:

Please include the outputs, outcomes, and performance measures as identified in the Work Plan.

Project 1: City of Mesa Fleet Electrification and Charging Infrastructure Development

- 375 electric vehicles
- 550 Level 2 charging stations and 25 direct current fast charging (DCFC) charging stations
- 3 staff members hired for project administration and implementation.

Project 2: Food Waste to Energy – Pre-processing Facility and Water Reclamation Plant Upgrades.

- 20,800 tons of food waste diverted from landfills
- 653,240 therms of biogas generated
- 2.6 million gallons of fats, oils, and grease processed
- 4 staff members hired for project implementation

5. Budget

MESA FLEET PROJECT ELECTRIFICATION BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
	1 FTE Senior Electrical Engineer, Project Manager with 3%/year salary increases	\$111,112	\$114,445	\$117,879	\$121,415	\$125,057	\$589,908
	1 FTE Engineering Grants Compliance Officer	\$87,059	\$89,671	\$92,361	\$95,132	\$97,986	\$462,209
	1 FTE Administrative Coordinator	70642	\$72,761	\$74,944	\$77,192	\$79,508	\$375,047
	TOTAL PERSONNEL	\$268,813	\$276,877	\$285,184	\$293,739	\$302,551	\$1,427,164
	Fringe Benefits						
	1 FTE Senior Electrical Engineer, Project Manager	\$40,770	\$41,994	\$43,253	\$44,551	\$45,888	\$216,456
	1 FTE Engineering Grants Compliance Officer	\$35,886	\$36,963	\$38,072	\$39,214	\$40,390	\$190,525
	1 FTE Administrative Coordinator	\$31,980	\$32,939	\$33,928	\$34,945	\$35,994	\$169,786
	TOTAL FRINGE BENEFITS	\$108,636	\$111,896	\$115,253	\$118,710	\$122,272	\$576,767
	Travel						
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment						
	Purchase of electric fleet vehicles (75 vehicles per year @72,000 per vehicle + 3% annual escalation beginning year two)	\$5,400,000	\$5,562,000	\$5,304,450	\$5,460,000	\$5,625,000	\$27,351,450
							\$0
	TOTAL EQUIPMENT	\$5,400,000	\$5,562,000	\$5,304,450	\$5,460,000	\$5,625,000	\$27,351,450
	Supplies						
							\$0
							\$0
	TOTAL SUPPLIES	\$0	\$0	\$0	\$0	\$0	\$0
	Contractual						
							\$0
							\$0
							\$0
							\$0
	TOTAL CONTRACTUAL	\$0	\$0	\$0	\$0	\$0	\$0
	OTHER						
	Contractors to design and construct charging infrastructure and electrical upgrades on 4 sites, all CEJST sites	\$6,128,000					\$6,128,000
	Contractors to design and construct charging infrastructure and electrical upgrades on 8 sites with est CPI escalator. CEJST, except 2 L2 ports in non-CEJST.		\$6,021,000				\$6,021,000
	Contractors to design and construct charging infrastructure and electrical upgrades on 6 sites with CPI escalator, CEJST except 3 L2 ports in non-CEJST			\$6,024,000			\$6,024,000
	Contractors to design and construct charging infrastructure and electrical upgrades on 8 sites with est CPI escalator. CEJST, except 4 L2 + 1 DC fast charging ports service Police/Fire in non-CEJST.				\$7,110,000		\$7,110,000
	Contractors to design and construct charging infrastructure and electrical upgrades on 1 non-CEJST large service center site serving CEJST and non-CEJST utility customers with CPI escalator					\$4,625,000	\$4,625,000
							\$0
	TOTAL OTHER	\$6,128,000	\$6,021,000	\$6,024,000	\$7,110,000	\$4,625,000	\$29,908,000
	TOTAL DIRECT	\$11,905,449	\$11,971,773	\$11,728,887	\$12,982,449	\$10,674,823	\$59,263,381
Indirect Costs	Indirect Costs						
							\$0
	TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING		\$11,905,449	\$11,971,773	\$11,728,887	\$12,982,449	\$10,674,823	\$59,263,381

MESA FOOD WASTE TO ENERGY PROJECT BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
	1 FTE Special Projects Manager	\$87,059	\$89,671	\$92,361	\$95,132	\$97,986	\$462,209
	1 FTE Engineering Program Manager	\$105,807	\$108,981	\$112,251	\$115,618	\$119,087	\$561,744
	1 FTE Engineering Grants Compliance Officer	\$87,059	\$89,671	\$92,361	\$95,132	\$97,986	\$462,209
	1 FTE Administrative Coordinator	\$70,642	\$72,761	\$74,944	\$77,192	\$79,508	\$375,047
	TOTAL PERSONNEL	\$350,567	\$361,084	\$371,917	\$383,074	\$394,567	\$1,861,209
	Fringe Benefits						
	1 FTE Special Projects Manager	\$35,886	\$36,963	\$38,072	\$39,214	\$40,390	\$190,525
	1 FTE Engineering Program Manager	\$39,693	\$40,884	\$42,111	\$43,374	\$44,675	\$210,737
	1 FTE Engineering Grants Compliance Officer	\$35,886	\$36,963	\$38,072	\$39,214	\$40,390	\$190,525
	1 FTE Administrative Coordinator	\$31,980	\$32,939	\$33,928	\$34,945	\$35,994	\$169,786
	TOTAL FRINGE BENEFITS	\$143,445	\$147,749	\$152,183	\$156,747	\$161,449	\$761,574
	Travel						
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment						\$0
							\$0
	TOTAL EQUIPMENT	\$0	\$0	\$0	\$0	\$0	\$0
	Supplies						\$0
							\$0
	TOTAL SUPPLIES	\$0	\$0	\$0	\$0	\$0	\$0
	Contractual						\$0
							\$0
							\$0
							\$0
	TOTAL CONTRACTUAL	\$0	\$0	\$0	\$0	\$0	\$0
OTHER							
	Planning phase: complete wastewater treatment plant facility design and modular system design, coordinate food waste sources and diversion program planning.	\$7,644,000					\$7,644,000
	Begin construction of the food waste processing facility, bio slurry receiving station and add additional biogas treatment capacity at the wastewater treatment plant.		\$9,172,000				\$9,172,000
	Continue construction of the food waste processing facility, bio slurry receiving station and add additional biogas treatment capacity at the wastewater treatment plant			\$10,192,000			\$10,192,000
	Finish construction and begin implementation of regional food waste collection and processing program. Treatment of additional biogas generated at the wastewater treatment plant to pipeline quality standards for injection of renewable natural gas into natural gas utility.				\$10,192,000		\$10,192,000
	100% implementation.					\$1,020,000	\$1,020,000
							\$0
	TOTAL OTHER	\$7,644,000	\$9,172,000	\$10,192,000	\$10,192,000	\$1,020,000	\$38,220,000
	TOTAL DIRECT	\$8,138,013	\$9,680,833	\$10,716,100	\$10,731,821	\$1,576,016	\$40,842,783
Indirect Costs	Indirect Costs						
							\$0
							\$0
	TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING		\$8,138,013	\$9,680,833	\$10,716,100	\$10,731,821	\$1,576,016	\$40,842,783

Project 1: Microgrids on Three Municipal Buildings

1. Description of Work Plan

The City of Tempe is proposing developing microgrids on three municipal buildings serving as Resilience Hubs: Escalante Community Center, Westside Multi-Generational Center, and Tempe Public Library. This project includes energy audits, energy efficiency retrofits suggested from the audits, hiring consultants to design and install the microgrids, and developing operations and maintenance for the three sites.

2. Schedule

Federal Fiscal Year	Quarter	Description of Activities
10/01/2024 to 09/30/2025	Quarter 1 Oct-Dec 2024	RFP for Energy Audits. RFP for microgrid design consultation
	Quarter 2 Jan-Mar 2025	Energy Audits started
	Quarter 3 Apr-June 2025	
	Quarter 4 Jul-Sep 2025	Energy retrofits started. Microgrid design consultation begins
10/01/2025 to 09/30/2026	Quarter 1 Oct-Dec 2025	
	Quarter 2 Jan-Mar 2026	
	Quarter 3 Apr-June 2026	
	Quarter 4 Jul-Sep 2026	RFP for microgrid installation.
10/01/2026 to 09/30/2027	Quarter 1 Oct-Dec 2026	Microgrid installation begins
	Quarter 2 Jan-Mar 2027	
	Quarter 3 Apr-June 2027	
	Quarter 4 Jul-Sep 2027	

10/01/2027 to 09/30/2028	Quarter 1 Oct-Dec 2027	
	Quarter 2 Jan-Mar 2028	
	Quarter 3 Apr-June 2028	
	Quarter 4 Jul-Sep 2028	
10/01/2028 to 09/30/2029	Quarter 1 Oct-Dec 2028	O&M
	Quarter 2 Jan-Mar 2029	
	Quarter 3 Apr-June 2029	
	Quarter 4 Jul-Sep 2029	All funds expended by this quarter.
Final Report Submission	Oct 2029 to Jan 2030	Final report due within 120 calendar days of grant expiration.

3. Location – Climate and Economic Justice Screening Tool (CEJST)

The Escalante Multi-Generational Center is located at 2150 E. Orange St., Tempe, AZ 85281. This is in Census Tract #04013319201, which is considered disadvantaged.

The Westside Multi-Generational Center is located at 715 W. 5th St., Tempe, AZ 85281. This is in Census tract #04013111204. This tract is not considered disadvantaged but is less than 2 miles away from a tract that is considered disadvantaged.

The Tempe Public Library is located at 3500 S. Rural Rd., Tempe, AZ 85282. This is in Census tract #04013111204. This tract is not considered disadvantaged but is less than 2 miles away from a tract that is considered disadvantaged.

4. Environmental Results – Outputs, Outcomes, and Performance Measures

Project 1: Microgrids on Municipal Buildings ♣ 3 microgrids brought online in Tempe ♣ 10 microgrids with Coalition members and partners ♣ 6,379,797 kilowatt hours (kWh) of clean electricity generated (by 2030) ♣ 1 staff member hired for project implementation.

Performance Measures: Tempe will report on the progress of the implementation plan, including the status of the energy audits, the RFP progress, energy retrofits, microgrid design and installation.

5. Budget

TEMPE MICROGRID BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
	FTE Project Manager	\$80,000	\$80,000				\$160,000
							\$0
	TOTAL PERSONNEL	\$80,000	\$80,000	\$0	\$0	\$0	\$160,000
	Fringe Benefits						
	FICA	\$6,120	\$6,120				\$12,240
	ASRS	\$9,816	\$9,816				\$19,632
	Health Life	\$15,963	\$15,963				\$31,926
	TOTAL FRINGE BENEFITS	\$31,899	\$31,899	\$0	\$0	\$0	\$63,798
	Travel						
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment						
							\$0
							\$0
	TOTAL EQUIPMENT	\$0	\$0	\$0	\$0	\$0	\$0
	Supplies						
							\$0
							\$0
	TOTAL SUPPLIES	\$0	\$0	\$0	\$0	\$0	\$0
	Contractual						
	Energy Audit - Escalante	\$40,000					\$40,000
	Energy Audit - Tempe Library	\$60,000					\$60,000
	Energy Retrofits - Escalante		\$200,000				\$200,000
	Energy Retrofits - Westside		\$223,000				\$223,000
	Energy Retrofits - Tempe Library		\$490,392				\$490,392
	Consultant for Microgrid design - Escalante			\$254,050			\$254,050
	Consultant for Microgrid design - Westside			\$240,318			\$240,318
	Consultant for Microgrid design - Tempe Library			\$1,007,335			\$1,007,335
	Solar & Battery installation - Escalante				\$2,440,500		\$2,440,500
	Solar & Battery installation - Westside				\$2,303,181		\$2,303,181
	Solar & Battery installation - Tempe Library				\$2,904,000		\$2,904,000
	TOTAL CONTRACTUAL	\$100,000	\$913,392	\$1,501,703	\$7,647,681	\$0	\$10,162,776
	OTHER						
	O&M - Escalante					\$38,100	\$38,100
	O&M - Westside					\$35,956	\$35,956
	O&M - Tempe Library					\$155,699	\$155,699
							\$0
							\$0
							\$0
	TOTAL OTHER	\$0	\$0	\$0	\$0	\$229,755	\$229,755
	TOTAL DIRECT	\$211,899	\$1,025,291	\$1,501,703	\$7,647,681	\$229,755	\$10,616,329
Indirect Costs	Indirect Costs						
							\$0
							\$0
	TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING		\$211,899	\$1,025,291	\$1,501,703	\$7,647,681	\$229,755	\$10,616,329

Project 2: Battery Electric Buses & Charging Infrastructure

1. Description of Work Plan

City of Tempe is proposing the purchase of ten Battery Electric Buses to be used on the Orbit Neighborhood Circulator route, specifically on the Mercury and Earth routes. Charging infrastructure will be located at both Tempe Transportation Center to provide in-route charging and at the East Valley Bus Operations & Maintenance Facility to provide overnight charging.

2. Schedule

Federal Fiscal Year	Quarter	Description of Activities
10/01/2024 to 09/30/2025	Quarter 1 Oct-Dec 2024	RFP for EV charging design consultant, hiring for FTE, RFP for buses
	Quarter 2 Jan-Mar 2025	
	Quarter 3 Apr-June 2025	EV charging design consultation begins
	Quarter 4 Jul-Sep 2025	
10/01/2025 to 09/30/2026	Quarter 1 Oct-Dec 2025	Buses ordered
	Quarter 2 Jan-Mar 2026	
	Quarter 3 Apr-June 2026	
	Quarter 4 Jul-Sep 2026	Electrical upgrades begin
10/01/2026 to 09/30/2027	Quarter 1 Oct-Dec 2026	
	Quarter 2 Jan-Mar 2027	
	Quarter 3 Apr-June 2027	Charger installation begins
	Quarter 4 Jul-Sep 2027	
10/01/2027 to 09/30/2028	Quarter 1 Oct-Dec 2027	
	Quarter 2 Jan-Mar 2028	

	Quarter 3 Apr-June 2028	Workforce development training begins
	Quarter 4 Jul-Sep 2028	Electric bus delivery.
10/01/2028 to 09/30/2029	Quarter 1 Oct-Dec 2028	
	Quarter 2 Jan-Mar 2029	
	Quarter 3 Apr-June 2029	
	Quarter 4 Jul-Sep 2029	All funds expended by this quarter.
Final Report Submission	Oct 2029 to Jan 2030	Final report due within 120 calendar days of grant expiration.

3. Location – Climate and Economic Justice Screening Tool (CEJST)

Buses will be placed on routes through neighborhoods that experience high heat exposure and on high mileage routes. Five buses would be deployed for the Mercury route which goes through Census tracts 319101, 319103, 319201 and 319202 which are designated as disadvantaged, and have the first, third, fourth and fifth highest heat priority scores in the City. The remaining 5 buses will be deployed to the Earth route which is the highest mileage route.

The Tempe Transportation Center is located at 200 E. Fifth St, Tempe, AZ 85281. This will be the location of the in-route chargers for the buses. This is in Census tract #04013111204. This tract is not considered disadvantaged.

The East Valley Bus Operations and Maintenance Facility is located at 2050 W. Rio Salado Parkway, Tempe, AZ 85281. This is in Census tract #04013111204. This tract is not considered disadvantaged.

4. Environmental Results – Outputs, Outcomes, and Performance Measures

Outputs & Outcomes:

10 BEBs ♣ 10 depot and 3 overhead and/or inductive fast chargers ♣ 1 staff member hired for project implementation.

Performance Measures: Tempe will report on the progress of the implementation plan, including the status of the RFP progress, the electrical design and consultation, bus procurement, installation of electrical charging infrastructure, and workforce training.

5. Budget

TEMPE ORBIT BUS ELECTRIFICATION BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
	Project Manager	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000
							\$0
							\$0
	TOTAL PERSONNEL	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000
	Fringe Benefits						
	FICA	\$11,475	\$11,475	\$11,475	\$11,475	\$11,475	\$57,375
	ASRS	\$18,405	\$18,405	\$18,405	\$18,405	\$18,405	\$92,025
	Health/Life	\$15,963	\$15,963	\$15,963	\$15,963	\$15,963	\$79,815
	TOTAL FRINGE BENEFITS	\$45,843	\$45,843	\$45,843	\$45,843	\$45,843	\$229,215
	Travel						
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment						
	10 Fast Charge Battery Electric Buses			\$12,740,880			\$12,740,880
	3 Overhead and/or inductive fast chargers at Tempe Transportation Center (installation included)		\$1,800,000				\$1,800,000
	10 Depot chargers at EVBOM		\$1,500,000				\$1,500,000
							\$0
							\$0
							\$0
	TOTAL EQUIPMENT	\$0	\$3,300,000	\$12,740,880	\$0	\$0	\$16,040,880
	Supplies						
							\$0
							\$0
	TOTAL SUPPLIES	\$0	\$0	\$0	\$0	\$0	\$0
	Contractual						
	Electrical upgrades at TTC		\$300,000				\$300,000
	On-route charger design & build at TTC		\$2,160,000				\$2,160,000
	Depot chargers design & build at EVBOM		\$2,160,000				\$2,160,000
	Design Consultant TTC & EVBOM	\$500,000					\$500,000
	TOTAL CONTRACTUAL	\$500,000	\$4,620,000	\$0	\$0	\$0	\$5,120,000
	OTHER						
	Workforce Development (mechanics, operators & COT staff)			\$175,000	\$175,000		\$350,000
							\$0
							\$0
							\$0
							\$0
	TOTAL OTHER	\$0	\$0	\$175,000	\$175,000	\$0	\$350,000
	TOTAL DIRECT	\$695,843	\$8,115,843	\$13,111,723	\$370,843	\$195,843	\$22,490,095
Indirect Costs	Indirect Costs						
							\$0
							\$0
	TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING		\$695,843	\$8,115,843	\$13,111,723	\$370,843	\$195,843	\$22,490,095

Project 3: Electric Fleet Vehicle & Training purchase

1. Description of Work Plan -

City of Tempe is proposing the purchase of five electric vehicles to replace fossil fuel powered vehicles in the municipal fleet and for electric vehicle maintenance training for the city's mechanics.

2. Schedule

Federal Fiscal Year	Quarter	Description of Activities
10/01/2024 to 09/30/2025	Quarter 1 Oct-Dec 2024	
	Quarter 2 Jan-Mar 2025	Order placed for 5 vehicles
	Quarter 3 Apr-June 2025	
	Quarter 4 Jul-Sep 2025	EV Training begins
10/01/2025 to 09/30/2026	Quarter 1 Oct-Dec 2025	
	Quarter 2 Jan-Mar 2026	
	Quarter 3 Apr-June 2026	
	Quarter 4 Jul-Sep 2026	
10/01/2026 to 09/30/2027	Quarter 1 Oct-Dec 2026	
	Quarter 2 Jan-Mar 2027	
	Quarter 3 Apr-June 2027	
	Quarter 4 Jul-Sep 2027	
10/01/2027 to 09/30/2028	Quarter 1 Oct-Dec 2027	
	Quarter 2 Jan-Mar 2028	
	Quarter 3 Apr-June 2028	

	Quarter 4 Jul-Sep 2028	
10/01/2028 to 09/30/2029	Quarter 1 Oct-Dec 2028	
	Quarter 2 Jan-Mar 2029	
	Quarter 3 Apr-June 2029	
	Quarter 4 Jul-Sep 2029	All funds expended by this quarter.
Final Report Submission	Oct 2029 to Jan 2030	Final report due within 120 calendar days of grant expiration.

3. Location – Climate and Economic Justice Screening Tool (CEJST)

The vehicles will be parked at City of Tempe facilities. Fleet vehicles are driven through the city and the region and will travel through disadvantaged communities.

4. Environmental Results – Outputs, Outcomes, and Performance Measures

Outputs & Outcomes:

5 EVs purchased ♣ EV fleet maintenance training for 33 City mechanics.

Performance Measures: Tempe will report on the progress of the implementation plan, including the purchase of the vehicles, and workforce training.

5. Budget

TEMPE ELECTRIC FLEET VEHICLES & TRAINING BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
							\$0
							\$0
							\$0
	TOTAL PERSONNEL	\$0	\$0	\$0	\$0	\$0	\$0
	Fringe Benefits						
							\$0
							\$0
							\$0
	TOTAL FRINGE BENEFITS	\$0	\$0	\$0	\$0	\$0	\$0
	Travel						
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment						
	Five light-duty trucks	\$325,000					\$325,000
							\$0
	TOTAL EQUIPMENT	\$325,000	\$0	\$0	\$0	\$0	\$325,000
	Supplies						
							\$0
							\$0
	TOTAL SUPPLIES	\$0	\$0	\$0	\$0	\$0	\$0
	Contractual						
	EV Maintenance Training for 33 mechanics	\$13,200					\$13,200
							\$0
							\$0
	TOTAL CONTRACTUAL	\$13,200	\$0	\$0	\$0	\$0	\$13,200
	OTHER						
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL OTHER	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL DIRECT	\$338,200	\$0	\$0	\$0	\$0	\$338,200
Indirect Costs	Indirect Costs						
							\$0
							\$0
	TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING		\$338,200	\$0	\$0	\$0	\$0	\$338,200

Exhibit C – Maricopa County, Workplan, Schedule, Budget

1. Description of Work Plan

- a. *Fleet Electrification and Charging Infrastructure Development:* This measure funds the transition of public fleets to electric vehicles (EVs) and the installation of EV charging infrastructure (including utility upgrades). Projects include the procurement of light-, medium-, and heavy-duty service municipal and public transit vehicles (battery electric buses [BEBs] and hydrogen fuel cell electric buses [FCEBs]). This measure is highly effective in achieving near-term pollutant emission reductions.
- b. *Commercial Lawn Mower Electrification:* This measure electrifies commercial lawn mowers used by government agencies, universities, golf courses, and resorts. It offers a voucher program providing up to \$20,000 towards the cost of a new electric lawn mower for use in Maricopa County. The high cost of such lawn mowers has slowed the adoption of electric options, and the vouchers funded through this program will offset that differential, allowing businesses to benefit from the improved life-cycle costs of more efficient, lower-maintenance, and cleaner electric equipment. Maricopa County's well-established program to reduce pollution from residential lawn equipment by switching to electric products bodes well for its ability to expand to commercial mowers. In addition to carbon dioxide (CO₂) emissions, pollutants emitted by gasoline powered lawn equipment include fine particulate matter (PM_{2.5}), ozone-forming NO_x, and VOCs. Maricopa County's Project 10 would result in 113.9 metric tons of VOCs reduced by 2030 (85% of all projects' VOC reduction) and 683.3 metric tons of VOCs reduced by 2050 (90% of all projects' VOC reduction).
- c. *Low-income HVAC Replacement Program:* Operated by Maricopa County, this project replaces low-efficiency HVAC systems with high-performance heat pumps for low- and moderate-income households. Implemented in coordination with the City of Phoenix energy efficiency upgrade programs described below (by referring participants who may qualify for additional services), this measure supports low-income households that are particularly reliant on a high-carbon economy and most vulnerable to extreme heat.
- d. *Fireplace Electrification:* Maricopa County will operate a program to replace wood-burning fireplaces with zero-emission electric fireplace inserts installed by contractors. With approval from the Maricopa County Air Quality Department (MCAQD) and proof of installation, MCAQD will pay the contractor the cost of the fireplace inserts and installation (up to \$2,000). Maricopa County plans to install 1,500 electric fireplaces throughout the county, which will reduce PM_{2.5} emissions by 15 tons by 2030. This program will be particularly beneficial as new PM_{2.5} regulations take effect, which may lead the MAG region to become a nonattainment area (not meeting federal standards for air quality).

2. Schedule

The schedule for completion of the CPRG Coalition Grant Activities is from the effective date of this Agreement through January 31, 2030. Funds awarded must be expended by September 30, 2029.

Federal Fiscal Year	Quarter	Description of Activities
10/01/2024 to 09/30/2025	Quarter 1 Oct-Dec 2024	Begin RFP/procurement processes for programs a, b, c, & d. Begin hiring process for all program staffing needs
	Quarter 2 Jan-Mar 2025	Begin outreach development for all programs as needed Continue RFP/procurement processes for all programs
	Quarter 3 Apr-June 2025	Begin ordering EVs. Begin infrastructure installations for EV chargers and maintenance bays as possible. Outreach begins for all programs it is needed for. Begin HVAC, fireplace, and commercial mower voucher programs
	Quarter 4 Jul-Sep 2025	Meet the following approximate output goals for year 1: <ul style="list-style-type: none"> • Have 50-80 EVs ordered • Install 50-80 EV chargers • Have 50% of service center upgrades in progress • Have 20 techs trained • Issue 50 commercial lawn mower vouchers • Install 300 electric fireplaces • Replace 250 HVAC units
10/01/2025 to 09/30/2026	Quarter 1 Oct-Dec 2025	Continue programs to meet output goals for in Quarter 4.
	Quarter 2 Jan-Mar 2026	Continue programs to meet output goals for in Quarter 4.
	Quarter 3 Apr-June 2026	Continue programs to meet output goals for in Quarter 4.
	Quarter 4 Jul-Sep 2026	Meet the following approximate output goals for year 2: <ul style="list-style-type: none"> • Order 50-80 more EVs • Install 50-80 more EV chargers • Have 75% of service center upgrades in progress

		<ul style="list-style-type: none"> • Have 20 more techs trained • Issue 50 more commercial lawn mower vouchers • Install 300 more electric fireplaces • Replace 250 more HVAC units
10/01/2026 to 09/30/2027	Quarter 1 Oct-Dec 2026	Continue programs to meet output goals for in Quarter 4.
	Quarter 2 Jan-Mar 2027	Continue programs to meet output goals for in Quarter 4.
	Quarter 3 Apr-June 2027	Continue programs to meet output goals for in Quarter 4.
	Quarter 4 Jul-Sep 2027	<p>Meet the following approximate output goals for year 3:</p> <ul style="list-style-type: none"> • Order 50-80 more EVs • Install 50-80 more EV chargers • Have 100% of service center upgrades in progress • Have technicians fully trained • Issue 50 more commercial lawn mower vouchers • Install 300 more electric fireplaces • Replace 250 more HVAC units
10/01/2027 to 09/30/2028	Quarter 1 Oct-Dec 2027	Continue programs to meet output goals for in Quarter 4.
	Quarter 2 Jan-Mar 2028	Continue programs to meet output goals for in Quarter 4.
	Quarter 3 Apr-June 2028	Continue programs to meet output goals for in Quarter 4.
	Quarter 4 Jul-Sep 2028	<p>Meet the following approximate output goals for year 4:</p> <ul style="list-style-type: none"> • Order 50-80 more EVs • Install 50-80 more EV chargers • Issue 50 more commercial lawn mower vouchers • Install 300 more electric fireplaces • Replace 250 more HVAC units
10/01/2028 to 09/30/2029	Quarter 1 Oct-Dec 2028	Continue programs to meet output goals for in Quarter 4.
	Quarter 2 Jan-Mar 2029	Continue programs to meet output goals for in Quarter 4.
	Quarter 3 Apr-June 2029	Continue programs to meet output goals for in Quarter 4.

	Quarter 4 Jul-Sep 2029	Complete the following output goals: <ul style="list-style-type: none"> • Have 377 EVs in fleet or ordered and paid for • Have 377 chargers installed or in final stages of installment • Have 250 commercial lawn mower vouchers issued • Have 1500 electric fireplaces installed • Have 1,250 HVAC units installed
Final Report Submission	Oct 2029 to Jan 2030	Final report due within 120 calendar days of grant expiration.

3. Location – Climate and Economic Justice Screening Tool (CEJST)

The location of CPRG Coalition Grant Activities is in accordance with **Exhibit F – Climate and Economic Justice Screening Tool (CEJST) Census Tract IDs.**

4. Environmental Results – Outputs, Outcomes, and Performance Measures

The following outputs, outcomes, and performance measures will be tracked and reported on a quarterly basis with reports submitted to the City, using the template included as Attachment 2:

- a. *Fleet Electrification*
 - 377 EVs
 - 377 Level 2 (L2) charging stations
 - 2 staff members hired for project administration and implementation
- b. *Lawn Mower Electrification*
 - 250 riding and stand-on lawn mower vouchers distributed
 - 1 staff member hired for project implementation
- c. Low Income HVAC Replacement Program
 - 1,250 HVAC units installed
 - 3 staff members hired for project implementation
- d. Regional Fireplace Electrification Program
 - 1,500 fireplaces replaced with electric equipment

5. Budget

MARICOPA COUNTY FLEET ELECTRIFICATION BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
	<i>EQS - 1 FTE Office Assistant Specialized</i>	\$44,179	\$46,388	\$48,708	\$51,143	\$53,700	\$244,118
	<i>FMD - 1 FTE Project Manager</i>	\$67,379	\$70,748	\$74,285	\$77,999	\$81,989	\$372,400
							\$0
	TOTAL PERSONNEL	\$111,558	\$117,136	\$122,993	\$129,142	\$135,689	\$616,518
	Fringe Benefits						
	<i>EQS - 1 FTE Office Assistant Specialized [Benefits = \$13,632 per FTE + (Salary * 0.1994)]</i>	\$22,441	\$22,882	\$23,344	\$23,830	\$24,340	\$116,837
	<i>FMD - 1 FTE Project Manager [Benefits = \$13,632 per FTE + (Salary * 0.1994)]</i>	\$27,068	\$27,740	\$28,445	\$29,185	\$29,963	\$142,401
	TOTAL FRINGE BENEFITS	\$49,509	\$50,622	\$51,789	\$53,015	\$54,303	\$259,238
	Travel						
	TOTAL TRAVEL	0	0	0	0	0	0
	Equipment						
	<i>Electric vehicles (Approximately 50 - 80 vehicles per year) [Maricopa County EV Infrastructure Plan - Page 8].</i>	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$1,700,000	\$8,500,000
	<i>EV lifts and battery lifting tables (Full facility upgrades years 1 & 2, final upgrades and maintenance year 3)</i>	\$90,000	\$95,000	\$50,000			\$235,000
	TOTAL EQUIPMENT	\$1,790,000	\$1,795,000	\$1,750,000	\$1,700,000	\$1,700,000	\$8,735,000
	Supplies						
	<i>EV diagnostic/maintenance safety equipment (Equipment procurement years 1 & 2, upgrades and maintenance of equipment years 3, 4, & 5)</i>	\$100,000	\$50,000	\$25,000	\$15,000	\$10,000	\$200,000
	TOTAL SUPPLIES	\$100,000	\$50,000	\$25,000	\$15,000	\$10,000	\$200,000
	Contractual						
	<i>Charging Infrastructure Direct Costs (Approximately 70-80 chargers annually until 377 chargers is reached) [Maricopa County EV Infrastructure Plan - Page 29].</i>	\$597,466	\$615,390	\$633,852	\$652,868	\$641,617	\$3,141,193
	<i>Maintenance and technician training for 40 technicians (Full staff training/certification programs years 1 & 2, Recertifications and new staff training years 3, 4, & 5)</i>	\$112,000	\$118,000	\$95,000			\$325,000
	TOTAL CONTRACTUAL	\$709,466	\$733,390	\$728,852	\$652,868	\$641,617	\$3,466,193
	OTHER						
	<i>Charging Infrastructure Owner Costs (Taxes, Fees, Contingencies, etc.) [Maricopa County EV Infrastructure Plan - Page 29].</i>	\$113,625	\$117,034	\$120,545	\$124,161	\$122,021	\$597,386
	<i>Service center upgrades (non-capital) (Full facility upgrades years 1 & 2, final upgrades and maintenance year 3)</i>	\$44,000	\$46,000	\$25,000			\$115,000
	TOTAL OTHER	\$157,625	\$163,034	\$145,545	\$124,161	\$122,021	\$712,386
	TOTAL DIRECT	\$2,918,159	\$2,909,182	\$2,824,179	\$2,674,186	\$2,663,630	\$13,989,335
Indirect Costs	Indirect Costs						
	<i>Charging Infrastructure [Maricopa County EV Infrastructure Plan - Page 29].</i>	\$182,866	\$188,352	\$194,002	\$199,822	\$196,379	\$961,421
	<i>Maricopa County Indirect Cost</i>	\$426,256	\$420,964	\$381,382	\$361,947	\$349,382	\$1,939,931
	TOTAL INDIRECT	\$609,122	\$609,316	\$575,384	\$561,769	\$545,761	\$2,901,352
TOTAL FUNDING		\$3,527,281	\$3,518,498	\$3,399,563	\$3,235,955	\$3,209,391	\$16,890,687

MARICOPA COUNTY COMMERCIAL LAWN MOWER ELECTRIFICATION PROGRAM BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
	MCAQD - 1 FTE Senior Planner	\$73,092	\$76,747	\$80,584	\$84,613	\$88,844	\$403,879
							\$0
							\$0
	TOTAL PERSONNEL	\$73,092	\$76,746	\$80,584	\$84,613	\$88,843	\$403,879
	Fringe Benefits						
	MCAQD - Senior Planner [Benefits = \$13,632 per FTE + (Salary * 0.1994)]	\$28,207	\$28,936	\$29,701	\$30,504	\$31,348	\$148,696
							\$0
							\$0
	TOTAL FRINGE BENEFITS	\$28,207	\$28,936	\$29,701	\$30,504	\$31,348	\$148,696
	Travel						
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment						
							\$0
							\$0
	TOTAL EQUIPMENT	\$0	\$0	\$0	\$0	\$0	\$0
	Supplies						
							\$0
							\$0
	TOTAL SUPPLIES	\$0	\$0	\$0	\$0	\$0	\$0
	Contractual						
							\$0
							\$0
							\$0
	TOTAL CONTRACTUAL	\$0	\$0	\$0	\$0	\$0	\$0
	Other						
	Vouchers to incentivize the purchase of commercial electric lawnmowers (50 lawnmowers a year for a total of 250 lawnmowers)	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000
							\$0
							\$0
							\$0
							\$0
	TOTAL OTHER	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000
	TOTAL DIRECT	\$1,101,299	\$1,105,682	\$1,110,285	\$1,115,117	\$1,120,191	\$5,552,574
Indirect Costs	Indirect Costs						
	MCAQD approved Grants Indirect Rate for FY 2024	\$35,799	\$37,348	\$38,975	\$40,682	\$42,475	\$195,279
							\$0
	TOTAL INDIRECT	\$35,799	\$37,348	\$38,975	\$40,682	\$42,475	\$195,279
TOTAL FUNDING		\$1,137,098	\$1,143,030	\$1,149,260	\$1,155,799	\$1,162,666	\$5,747,853

MARICOPA COUNTY LOW INCOME HVAC REPLACEMENT PROGRAM BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
	HSD - 2 FTE Project Managers and 1 FTE Client Specialist	\$196,794	\$206,634	\$216,965	\$227,814	\$239,204	\$1,087,411
							\$0
							\$0
	TOTAL PERSONNEL	\$196,794	\$206,634	\$216,965	\$227,814	\$239,204	\$1,087,411
	Fringe Benefits						
	HSD - 2 FTE Project Managers and 1 FTE Client Specialist [Benefits = \$13,632 per FTE + (Salary * 0.1994)]	\$80,137	\$84,144	\$88,351	\$92,768	\$97,407	\$442,807
							\$0
							\$0
	TOTAL FRINGE BENEFITS	\$80,137	\$84,144	\$88,351	\$92,768	\$97,407	\$442,807
	Travel						
	Mileage - 30,000 miles x \$0.685/mile	\$20,550	\$20,550	\$20,550	\$20,550	\$20,550	\$102,750
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$20,550	\$20,550	\$20,550	\$20,550	\$20,550	\$102,750
	Equipment						\$0
							\$0
	TOTAL EQUIPMENT	\$0	\$0	\$0	\$0	\$0	\$0
	Supplies						
	IT Equipment, Safety Equipment, Office Supplies	\$14,400	\$0	\$0	\$0	\$0	\$14,400
	Cell Phone Chargers and Software Licenses	\$4,080	\$4,080	\$4,080	\$4,080	\$4,080	\$20,400
	TOTAL SUPPLIES	\$18,480	\$4,080	\$4,080	\$4,080	\$4,080	\$34,800
	Contractual						
	HVAC Units - 1,250 units; total cost of one new unit, labor, and associated work = \$24,000 [Based on historical knowledge from operating the Emergency HVAC Program with alternate funding].	\$6,000,000	\$6,000,000	\$6,000,000	\$6,000,000	\$6,000,000	\$30,000,000
							\$0
							\$0
							\$0
	TOTAL CONTRACTUAL	\$6,000,000	\$6,000,000	\$6,000,000	\$6,000,000	\$6,000,000	\$30,000,000
	OTHER						
	Marketing and Advertising	\$4,500	\$0	\$0	\$0	\$0	\$4,500
	Staff Training & Professional Development	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$75,000
							\$0
							\$0
							\$0
	TOTAL OTHER	\$19,500	\$15,000	\$15,000	\$15,000	\$15,000	\$79,500
	TOTAL DIRECT	\$6,335,461	\$6,330,408	\$6,344,946	\$6,360,212	\$6,376,241	\$31,747,268
Indirect Costs	Indirect Costs						
	Indirect - Maricopa County Human Services [Based on indirect cost agreement for federal grants]	\$61,479	\$64,553	\$67,780	\$71,169	\$74,728	\$339,709
	Indirect - Maricopa County Air Quality Department [Based on MCAQD Indirect Cost Plan]	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL INDIRECT	\$61,479	\$64,553	\$67,780	\$71,169	\$74,728	\$339,709
TOTAL FUNDING		\$6,396,940	\$6,394,961	\$6,412,726	\$6,431,381	\$6,450,969	\$32,086,977

MARICOPA COUNTY REGIONAL FIREPLACE ELECTRIFICATION PROGRAM BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
	Personnel						
							\$0
							\$0
							\$0
	TOTAL PERSONNEL	\$0	\$0	\$0	\$0	\$0	\$0
	Fringe Benefits						
							\$0
							\$0
							\$0
	TOTAL FRINGE BENEFITS	\$0	\$0	\$0	\$0	\$0	\$0
	Travel						
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment						
							\$0
							\$0
	TOTAL EQUIPMENT	\$0	\$0	\$0	\$0	\$0	\$0
	Supplies						
							\$0
							\$0
	TOTAL SUPPLIES	\$0	\$0	\$0	\$0	\$0	\$0
	Contractual						
	<i>Contractors for Fireplace Electrification Program (300 fireplace replacements a year for a total of 1500 replacements)</i>	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$3,000,000
							\$0
							\$0
	TOTAL CONTRACTUAL	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$3,000,000
	OTHER						
							\$0
							\$0
							\$0
							\$0
	TOTAL OTHER	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL DIRECT	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$3,000,000
Indirect Co	Indirect Costs						
	MCAQD approved Grants Indirect Rate for FY 2024	\$212,040	\$212,040	\$212,040	\$212,040	\$212,040	\$1,060,200
							\$0
	TOTAL INDIRECT	\$212,040	\$212,040	\$212,040	\$212,040	\$212,040	\$1,060,200
TOTAL FUNDING		\$812,040	\$812,040	\$812,040	\$812,040	\$812,040	\$4,060,200

Exhibit D – Office of the Governor of the State of Arizona, Workplan, Schedule, Budget

1. Description of Work Plan

This measure funds the transition of the state operated fleets to electric vehicles (EVs) and the installation of EV charging infrastructure (including utility upgrades). The Project would electrify 56 light-duty sedans each year for a total of 280 sedans, install 140 Level 2 EV chargers, and install 8 Level 3 chargers by 2030.

2. Schedule

The schedule for completion of the CPRG Coalition Grant Activities is from the effective date of this Agreement through January 31, 2030. Funds awarded must be expended by September 30, 2029.

Federal Fiscal Year	Quarter	Description of Activities
10/01/2024 to 09/30/2025	Quarter 1 Oct-Dec 2024	Plan for grant implementation by hiring one EV Fleet Program Manager, identify state fleet vehicles to be replaced, and identify locations for chargers during first year of program.
	Quarter 2 Jan-Mar 2025	Year 1 design, permitting, and construction of charging infrastructure and procurement of EVs in accordance with state and federal procurement guidelines.
	Quarter 3 Apr-June 2025	Purchase 56 EVs, 35 L2 chargers, and two Level 3 chargers
	Quarter 4 Jul-Sep 2025	
10/01/2025 to 09/30/2026	Quarter 1 Oct-Dec 2025	Year 2 design, permitting, and construction of charging infrastructure and procurement of EVs in accordance with state and federal procurement guidelines.
	Quarter 2 Jan-Mar 2026	Purchase 56 EVs, 35 L2 chargers, and two Level 3 chargers
	Quarter 3 Apr-June 2026	
	Quarter 4 Jul-Sep 2026	
10/01/2026 to 09/30/2027	Quarter 1 Oct-Dec 2026	Year 3 design, permitting, and construction of charging infrastructure and procurement of EVs in accordance with state and federal procurement guidelines.
	Quarter 2 Jan-Mar 2027	Purchase 56 EVs, 35 L2 chargers, and two Level 3 chargers

	Quarter 3 Apr-June 2027	
	Quarter 4 Jul-Sep 2027	
10/01/2027 to 09/30/2028	Quarter 1 Oct-Dec 2027	Year 4 design, permitting, and construction of charging infrastructure and procurement of EVs in accordance with state and federal procurement guidelines.
	Quarter 2 Jan-Mar 2028	Purchase 56 EVs, 35 L2 chargers, and two Level 3 chargers
	Quarter 3 Apr-June 2028	
	Quarter 4 Jul-Sep 2028	
10/01/2028 to 09/30/2029	Quarter 1 Oct-Dec 2028	Year 3 design, permitting, and construction of charging infrastructure and procurement of EVs in accordance with state and federal procurement guidelines.
	Quarter 2 Jan-Mar 2029	Purchase 56 EVs
	Quarter 3 Apr-June 2029	
	Quarter 4 Jul-Sep 2029	All funds expended by this quarter.
Final Report Submission	Oct 2029 to Jan 2030	Final report due within 120 calendar days of grant expiration.

3. Location – Climate and Economic Justice Screening Tool (CEJST)

The location of CPRG Coalition Grant Activities is in accordance with **Exhibit F – Climate and Economic Justice Screening Tool (CEJST) Census Tract IDs.**

4. Environmental Results – Outputs, Outcomes, and Performance Measures

The following outputs, outcomes, and performance measures will be tracked and reported on a quarterly basis with reports submitted to the City, using the template included as Attachment 2:

- 280 light duty vehicles, 140 Level 2 chargers, eight Level 3 chargers
- Reduction of 13,914 MT of CO₂
- As outlined in the schedule and budget sections, the Governor’s Office of Resiliency will report performance based on the purchase of electric vehicles and installation of EV chargers on an annual basis.

5. Budget

ARIZONA OFFICE OF RESILIENCY FLEET ELECTRIFICATION BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
	EV Fleet Program Manager (1 FTE Project Mgr)	\$80,000	\$83,200	\$86,528	\$89,989	\$93,589	\$433,306
	starting salary of \$80,000 with 4% annual increase						\$0
							\$0
	TOTAL PERSONNEL	\$80,000	\$83,200	\$86,528	\$89,989	\$93,589	\$433,306
	Fringe Benefits						
	EV Fleet Program Manager (1 FTE Project Mgr)	\$26,400	\$27,456	\$28,554	\$29,696	\$30,884	\$142,991
							\$0
							\$0
	TOTAL FRINGE BENEFITS	\$26,400	\$27,456	\$28,554	\$29,696	\$30,884	\$142,991
	Travel						
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment						
	280 Total EVs	\$3,640,000	\$3,640,000	\$3,640,000	\$3,640,000	\$3,640,000	\$18,200,000
	56 EVs per year, est. cost of \$65,000 per EV						\$0
	TOTAL EQUIPMENT	\$3,640,000	\$3,640,000	\$3,640,000	\$3,640,000	\$3,640,000	\$18,200,000
	Supplies						
	140 Level 2 EV Chargers with 2 Cords each	\$2,400,216	\$2,400,216	\$2,400,216	\$2,400,216	\$0	\$9,600,863
	35 L2 chargers per year, est. cost of \$68,577.59 per charger						
	8 Level 3 DC Fast Chargers with 2 Cords each	\$468,863	\$468,863	\$468,863	\$468,863	\$0	\$1,875,452
	TOTAL SUPPLIES	\$2,869,079	\$2,869,079	\$2,869,079	\$2,869,079	\$0	\$11,476,315
	Contractual						
							\$0
							\$0
							\$0
							\$0
	TOTAL CONTRACTUAL	\$0	\$0	\$0	\$0	\$0	\$0
	OTHER						
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL OTHER	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL DIRECT	\$6,615,479	\$6,619,735	\$6,624,161	\$6,628,764	\$3,764,473	\$30,252,612
Indirect Costs	Indirect Costs						
							\$0
							\$0
	TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING		\$6,615,479	\$6,619,735	\$6,624,161	\$6,628,764	\$3,764,473	\$30,252,612

Exhibit E – City of Phoenix, Workplan, Schedule, Budget

1. Description of Work Plan - Fleet Electrification and Heavy-duty Vehicle Fleet Testing

These projects will fund the transition of public fleets to electric vehicles (EVs) and the installation of EV charging infrastructure (including utility upgrades) in the city of Phoenix. Projects include the procurement of light-, medium-, and heavy-duty service municipal vehicles. In addition, the City of Phoenix will administer additional funding requests to extend this measure to Coalition partners (all MAG member agencies). This measure also includes associated workforce development for EV-related jobs, expanding this measure's transformative impact for the region, because training provides the skills to not only support the Coalition members' efforts, but builds the capacity for private investment in EVs as well.

2. Schedule

The schedule for completion of the CPRG Coalition Grant Activities is from the effective date of this Agreement through January 31, 2030. Funds awarded must be expended by September 30, 2029.

Federal Fiscal Year	Quarter	Description of Activities
1st Year 10/01/2024 to 09/30/2025	Quarter 1 Oct-Dec 2024	Project 6: Hire Project Managers (2FTE), Hire Project Staff (2FTE), Request for Quote (RFQ) 36 Light Duty Trucks for Phoenix, RFQ 12 Light Duty SUVs for Phoenix, RFQ Electrical Hardware for Level 2 Phoenix, RFQ Electrical Hardware for Level 3 Phoenix, RFQ Electrical Hardware Level 2 for Coalition, RFQ 30 Light Duty Truck for Coalition, RFQ 30 Light Duty SUV for Coalition, RFQ Telematic Tracking Phoenix, Purchase Laptops and Mobile Phones, RFQ Planning and Development (Coalition), RFQ Engineering Services (Site Selection for Coalition level 2 charging), RFQ Fuel Force Tracking, RFQ Grand Opening of Sites, Purchase Community Engagement, Purchase City Fleet Promotion, (Rows 53-55 Budget) RFQ Training Video, RFI JOC City Design, RFI JOC City Drawings (Rows 63-66 Budget). Note: 50% Advance payment may be required for Electrical Hardware (Rows 35,36,39). Project 7:

		Hire Project Manager, Hire Project Staff, RFQ Heavy Duty Equipment –5 Grapple Trucks, 2 Skid Loaders, 2 Barrel Trucks 2 Roll Off Trucks, 1 Fire Truck Pumper.
	Quarter 2 Jan-Mar 2025	Project 6: Purchase 36 Light Duty Trucks Phoenix, Purchase 12 SUV Phoenix, Purchase 30 Light Duty Coalition Trucks, Purchase 30 Light Duty Coalition SUV's, Purchase Electrical Hardware Level 2 Phoenix, Purchase Electrical Hardware Level 3 Phoenix, Purchase Electrical Hardware level 2 Coalition, Purchase Engineering Services Coalition (Line 47,48), Purchase EV Service Consulting Coalition (Line 49), Purchase Fuel Force Tracking Phoenix (Line 50) Purchase City Design, Purchase City Drawings
	Quarter 3 Apr-June 2025	Project 6: Purchase Mechanics Tools and Fire Blankets, Purchase EV Testing Tools, Project 7: Purchase 1 Grapple Truck, 1 Skid Loader, 1 Barrel Truck, 1 Roll Off Truck, 1 Fire Pump Truck
	Quarter 4 Jul-Sep 2025	Project 6: Purchase Other Community Engagement (Public Announcements and Advertising Row 64) Purchase Travel for Training. Project 7: Purchase Travel for Training
2nd Year		
10/01/2025 to 09/30/2026	Quarter 1 Oct-Dec 2025	Project 6: RFQ 36 Light Duty Trucks for Phoenix, RFQ 12 Light Duty SUV Phoenix, RFQ 30 light Duty Trucks Coalition, RFQ 30 Light Duty SUV's Coalition, Purchase Electrical Hardware for Level 2, Purchase Electrical Hardware for Level 3, Purchase Telematic Tracking, Purchase Engineering Services, Purchase Planning and Development, Purchase EV Service Consulting (Lines 47-49) Purchase Fuel Force Tracking, Purchase Grand Opening of Sites, Purchase Community Engagement, Purchase City Fleet Promotion, Purchase JOC City Design, Purchase JOC City Drawings.
	Quarter 2 Jan-Mar 2026	Project 6: Purchase 36 Light Duty Trucks for Phoenix, Purchase 12 Light Duty SUVs for Phoenix, Purchase 30 Light Duty Trucks for Coalition, Purchase 30 Light Duty SUVs for Coalition
	Quarter 3 Apr-June 2026	Project 6: Purchase Mechanics Tools, Purchase EV Fire Blankets Project 7: Purchase 1 Grapple Truck
	Quarter 4 Jul-Sep 2026	Project 6: Purchase Travel for Training Project 7: Purchase Travel for Training

3rd Year		
10/01/2026 to 09/30/2027	Quarter 1 Oct.-Dec. 2026	<p>Project 6: RFQ 36 Light Duty Trucks for Phoenix, RFQ 12 Light Duty SUVs for Phoenix, Purchase Electrical Hardware for Level 3, RFQ 30 Light Duty Trucks for Coalition, RFQ 30 Light Duty SUV for Coalition, (39), Purchase Telematic Tracking, Purchase Fire Blankets, Purchase Contract Engineering Services, Purchase (JOC) Contract Planning and Development , JOC Contract EV Service Consulting, RFQ Fuel Force Tracking, Contract Grand Opening of Sites, Contract Community Engagement, Contract City Design, Contract City Drawings</p> <p>Project 7: RFQ 1 Grapple Truck, 1 Skid Loader, 1 Barrel Truck, 1 Roll Off Truck</p>
	Quarter 2 Jan-Mar 2027	Project 6: Purchase 36 Light Duty Trucks for Phoenix, Purchase 12 SUVs for Phoenix, Purchase 30 Light Duty Trucks for Coalition, Purchase 30 Light Duty SUVs for Coalition.
	Quarter 3 Apr-June 2027	Project 6: Purchase Mechanics Tools, Purchase EV Testing Tools, Purchase Fire Blankets.
	Quarter 4 Jul-Sep 2027	<p>Purchase Grand Opening of Sites, Contract Community Engagement</p> <p>Project 7: Purchase 1 Grapple Truck, 1 Skid Loader, 1 Barrel Truck, 1 Roll Off Truck</p>
4th Year		
10/01/2027 to 09/30/2028	Quarter 1 Oct-Dec 2027	<p>Project 6: RFQ 36 Light Duty Trucks for Phoenix, RFQ 12 Light Duty SUVs for Phoenix, Purchase Mechanics Tools, Purchase EV Testing Tools, RFQ 30 Light Duty Truck for Coalition, RFQ 30 Light Duty SUV for Coalition, Purchase Electrical Hardware for Level 2 for Coalition, Purchase Telematic Tracking, Purchase Fire Blankets, Purchase Engineering Services, Contract Planning and Development, Contract EV Service Consulting, Contract Fuel Force Tracking, Contract Grand Opening of Sites, Contract Community Engagement, Contract City Design, Contract City Drawings</p> <p>Project 7: RFQ –1 Grapple Truck</p>
	Quarter 2 Jan-Mar 2028	Project 6: Purchase 36 Light Duty Trucks Phoenix, Purchase 12 Light Duty SUVs Phoenix, Purchase 30 Light Duty Trucks Coalition, Purchase 30 Light Duty SUVs Coalition

	Quarter 3 Apr-June 2028	Project 6: Purchase Mechanics Tools, Purchase EV Testing Tools, Purchase Fire Blankets.
	Quarter 4 Jul-Sep 2028	Project 6: Purchase Travel for Training Project 7: Purchase 1 Grapple Truck, 1 Skid Loader, 1 Barrel Truck, 1 Roll Off Truck.
5th Year		
10/01/2028 to 09/30/2029	Quarter 1 Oct-Dec 2028	Project 6: RFQ 36 Light Duty Trucks for Phoenix, RFQ 12 Light Duty SUVs for Phoenix, Purchase Mechanics Tools, Purchase EV Purchase Testing Tools, RFQ 30 Light Duty Truck for Coalition, RFQ 30 Light Duty SUV for Coalition, Purchase Electrical Hardware for Level 2 for Coalition, Purchase Telematic Tracking, Purchase Fire Blankets, Purchase Contract Engineering Services, Purchase Contract Planning and Development, Purchase EV Service Consulting, Purchase Fuel Force Tracking, Purchase Grand Opening of Sites, Purchase Community Engagement, Purchase JOC City Design, Purchase JOC City Drawings Project 7: RFQ – 1 Grapple Truck
	Quarter 2 Jan-Mar 2029	Project 6: Purchase 36 Light Duty Trucks Phoenix, Purchase 12 Light Duty SUVs Phoenix, Purchase 30 Light Duty Trucks for Coalition, Purchase 30 Light Duty SUVs for Coalition.
	Quarter 3 Apr-June 2029	Purchase Final Grand Opening of Sites (Rows 53-55) Project 7: Purchase 1 Grapple Truck
	Quarter 4 Jul-Sep 2029	All funds expended by this quarter.
Final Report Submission	Oct 2029 to Jan 2030	Final report due within 120 calendar days of grant expiration.

3. Location – Climate and Economic Justice Screening Tool (CEJST)

The location of CPRG Coalition Grant Activities is in accordance with **Exhibit F – Climate and Economic Justice Screening Tool (CEJST) Census Tract IDs.**

4. Environmental Results – Outputs, Outcomes, and Performance Measures

The following outputs, outcomes, and performance measures will be tracked and reported on a quarterly basis with reports submitted to the city, using the template included as Attachment 2:

Project 6: City of Phoenix Fleet Electrification

- 240 EVs in Phoenix
- 300 EVs with Coalition members and partners
- 203 L2, 40 DCFC, and 8 solar EV charging stations
- 150 L2 charging stations with Coalition members and partners
- 4 staff members hired for project administration and implementation
- Monitor mileage, emissions trends, and any community feedback on deployed vehicles.

Project 7: City of Phoenix Heavy-duty Vehicle Fleet Testing

- 12 heavy-duty EVs
- 2 staff members hired for project implementation
- Monitor mileage, emissions trends, and any community feedback on deployed vehicles.

5. Budget

PHOENIX FLEET ELECTRIFICATION BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
	Project Manager /2 FTE	\$195,562	\$201,038	\$206,667	\$212,453	\$218,402	\$1,034,122
	Project Staff / 2FTE (@\$57,179 each with 2.8% COLA)	\$114,358	\$117,560	\$120,852	\$124,236	\$127,714	\$604,719
2.80%	Annual COLA %						\$0
	TOTAL PERSONNEL	\$309,920	\$318,598	\$327,518	\$336,689	\$346,116	\$1,638,842
	Fringe Benefits						
	Project Manager /2 FTE	\$68,447	\$70,363	\$72,333	\$74,359	\$76,441	\$361,943
	Project Staff / 2FTE	\$40,025	\$41,146	\$42,298	\$43,482	\$44,700	\$211,652
35%	Annual Fringe Benefit %						\$0
	TOTAL FRINGE BENEFITS	\$108,472	\$111,509	\$114,631	\$117,841	\$121,141	\$573,595
	Travel						
	Project Manager:						\$0
	Air travel	\$1,200	\$1,200	\$1,200	\$1,200	\$1,200	\$6,000
	Hotel	\$1,950	\$1,950	\$1,950	\$1,950	\$1,950	\$9,750
	Per Diem, \$71. day @3.5 days	\$249	\$249	\$249	\$249	\$249	\$1,245
	Taxi	\$45	\$45	\$45	\$45	\$45	\$225
	Mileage 500	\$328	\$328	\$328	\$328	\$328	\$1,640
	Parking \$20 day @4 days	\$80	\$80	\$80	\$80	\$80	\$400
	Luggage Fees \$25 @2 per year/miscellaneous	\$250	\$250	\$250	\$250	\$250	\$1,250
	Meals	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$5,000
	Car rental	500	500	500	500	500	\$2,500
	TOTAL TRAVEL	\$5,602	\$5,602	\$5,602	\$5,602	\$5,602	\$28,010
	Equipment						
	Light Duty Truck 120 total, 24 per year @\$80,000.	\$1,920,000	\$1,920,000	\$1,920,000	\$1,920,000	\$1,920,000	\$9,600,000
	Light Duty Truck 60 total, 12 per year @\$80,000.	\$960,000	\$960,000	\$960,000	\$960,000	\$960,000	\$4,800,000
	Light Duty SUV 60 total, 12 per year @ \$30,000.	\$360,000	\$360,000	\$360,000	\$360,000	\$360,000	\$1,800,000
	Mechanics Tools for Safety/Fire Blankets	\$4,300	\$4,300	\$4,300	\$4,300	\$4,300	\$21,500
	EV Testing Tools	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$25,000
	Electrical Hardware for Level 2 charging based on the Gannett Fleming Report	\$13,921,251	\$640,000				\$14,561,251
	Electrical Hardware Level 3 DCFC / Based on Site Quote / Years 1,2,3 =20+10+10 DCFC / 40 Chargers Total	\$10,000,000	\$5,000,000	\$5,000,000			\$20,000,000
	Coalition - Light Duty Truck 150 total, 30 per year @\$80,000.	\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	\$12,000,000
	Coalition - Light Duty SUV 150 total, 30 per year @ \$30,000.	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$4,500,000
	Coalition - Electrical Hardware for Level 2 charging (150 total) based on the Gannett Fleming Report - charger with 2 cords; average cost is \$68,577 from report	\$2,057,310	\$2,057,310	\$2,057,310	\$2,057,310	\$2,057,310	\$10,286,550
	TOTAL EQUIPMENT	\$32,527,861	\$14,246,610	\$13,606,610	\$8,606,610	\$8,606,610	\$77,594,301
	Supplies						
	Telematic Tracking and Maintenance Planning	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$50,000
	Fire Blankets / 2 per year	\$8,600	\$8,600	\$8,600	\$8,600	\$8,600	\$43,000
	Laptop and mobile phone	\$3,450					\$3,450
	TOTAL SUPPLIES	\$22,050	\$18,600	\$18,600	\$18,600	\$18,600	\$96,450
	Contractual						
	Engineering Services / Surveys / Permits / Excavating / Inspections / Data Logging	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$225,000
	Planning and Development / Safety / Consulting	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$50,000
	EV Service Consulting	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$15,000
	Fuel Force Tracking (Internal)	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$50,000
	TOTAL CONTRACTUAL	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$340,000
	OTHER						
	Grand Opening of Sites	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$25,000
	Community Engagement	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$60,000
	City Fleet Promotion	\$5,000	\$5,000				\$10,000
							\$0
							\$0
							\$0
	TOTAL OTHER	\$22,000	\$22,000	\$17,000	\$17,000	\$17,000	\$95,000
	TOTAL DIRECT	\$33,063,905	\$14,790,919	\$14,157,962	\$9,170,342	\$9,183,069	\$80,366,197
Indirect Costs	Indirect Costs						
	EV Operations Training Video x 2	\$7,000					\$7,000
	Community Engagement	\$5,000					\$5,000
	City Design	\$320,000	\$126,000	\$50,000	\$50,000	\$50,000	\$596,000
	City Drawings	\$124,000	\$50,000	\$7,000	\$5,000	\$2,000	\$188,000
	TOTAL INDIRECT	\$456,000	\$176,000	\$57,000	\$55,000	\$52,000	\$796,000
TOTAL FUNDING		\$33,519,905	\$14,966,919	\$14,214,962	\$9,225,342	\$9,235,069	\$81,162,197

PHOENIX HEAVY DUTY ELECTRIC VEHICLE TESTING BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
	Project Manager Full Time Equivalent	\$97,781	\$100,519	\$103,333	\$106,227	\$109,201	\$517,061
	Project Staff Full Time Equivalent	\$57,179	\$58,780	\$60,426	\$62,118	\$63,857	\$302,360
2.80%	COLA						\$0
	TOTAL PERSONNEL	\$154,960	\$159,299	\$163,759	\$168,345	\$173,058	\$819,421
	Fringe Benefits						
	Project Manager + Project Staff Full Time Equivalent	\$117,794	\$121,092	\$124,482	\$127,968	\$131,551	\$622,887
	Laptop and Mobile Phone	\$3,450					\$3,450
35%	Fringe						\$0
	TOTAL FRINGE BENEFITS	\$121,244	\$121,092	\$124,482	\$127,968	\$131,551	\$626,337
	Travel						
	Air travel	\$800	\$800	\$800	\$800	\$800	\$4,000
	Hotel	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$7,500
	Car Rental	\$500	\$500	\$500	\$500	\$500	\$2,500
	Meals	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$5,000
	Luggage / Miscellaneous	\$200	\$200	\$200	\$200	\$200	\$1,000
							\$0
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$20,000
	Equipment						
	HEAVY DUTY EV Trucks and Equipment / 12 Total:						\$0
	5 Grapple Trucks	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$2,250,000
	2 Skid Loaders	\$125,000		\$125,000			\$250,000
	2 Barrel Trucks	\$350,000		\$350,000			\$700,000
	2 Roll Off Trucks	\$500,000		\$500,000			\$1,000,000
	1 Fire Truck Pumper	\$3,000,000					\$3,000,000
							\$0
	TOTAL EQUIPMENT	\$4,425,000	\$450,000	\$1,425,000	\$450,000	\$450,000	\$7,200,000
	Supplies						
							\$0
							\$0
	TOTAL SUPPLIES	\$0	\$0	\$0	\$0	\$0	\$0
	Contractual						
							\$0
							\$0
							\$0
							\$0
	TOTAL CONTRACTUAL	\$0	\$0	\$0	\$0	\$0	\$0
	Other						
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL OTHER	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL DIRECT	\$4,705,204	\$734,391	\$1,717,242	\$750,312	\$758,609	\$8,665,758
Indirect Costs	Indirect Costs						
							\$0
							\$0
	TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING		\$4,705,204	\$734,391	\$1,717,242	\$750,312	\$758,609	\$8,665,758

1. Description of Work Plan - Weatherization and Energy Efficiency Repairs

The City of Phoenix will provide home repairs to low- to moderate-income Phoenix owner and tenant households to reduce their electricity usage by replacing inefficient, damaged, or inoperable materials, appliances, fixtures, or infrastructure with new, energy efficient models. Following evaluation, one or more of the following services will be provided: HVAC unit replacement, duct sealing and replacement, insulation installation, and replacement of appliances. The program will also offer repair or replacement services for infrastructure and other items in the home that directly affect the feasibility of the project. Income eligibility guidelines apply to the program.

2. Schedule

The schedule for completion of the CPRG Coalition Grant Activities is from the effective date of this Agreement through January 31, 2030. Funds awarded must be expended by September 30, 2029.

Federal Fiscal Year	Quarter	Description of Activities
10/01/2024 to 09/30/2025	Quarter 1 Oct-Dec 2024	Initiate recruitments to hire Project Managers, Project Management Assistants, and Community Workers; Attend Conferences/Training, Purchase Badging, Purchase Cell Phones, Purchase Computer Equipment, Purchase Office Supplies, Initiate Procurement Services for Translation Services, Contract Diagnostic, Review, and Repair Services, Initiate Procurement Services for Legal Services, Purchase Furniture, Initiate Procurement Services for Print Services, Refine Program Implementation Model
	Quarter 2 Jan-Mar 2025	Hire Project Managers, Hire Project Management Assistants, Hire Community Workers, Initiate Recruitment Process to Hire Admin Assistant and Accountant, Attend Conferences/Training, Purchase Badging, Purchase Cell Phones, Purchase Computer Equipment, Purchase Office Supplies, Contract Translation Services, Contract Diagnostic, Review, and Repair Services, Contract Legal Services, Purchase Furniture, Purchase Print Services
	Quarter 3 Apr-June 2025	Hire Admin Assistant, Hire Accountant, Design Outreach and Education Materials, Procure Postage/Mailing Services, Contract Diagnostic, Review, & Repair Services, Purchase Badging, Purchase Cell Phones, Purchase Computer Equipment, Purchase Office Supplies
	Quarter 4 Jul-Sep 2025	Initiate engagement to solicit program participation, Annual Program Review/Evaluation

10/01/2025 to 09/30/2026	Quarter 1 Oct-Dec 2025	Solicit and enroll participants, Attend Conferences/Training, Purchase Cell Phones, Purchase Computer Equipment, Purchase Office Supplies, Purchase Outreach and Education Materials, Purchase Postage, Contract Translation Services, Contract Diagnostic, Review, & Repair Services, Contract Legal Services, Purchase Print Services
	Quarter 2 Jan-Mar 2026	Solicit and enroll participants
	Quarter 3 Apr-June 2026	Solicit and enroll participants
	Quarter 4 Jul-Sep 2026	Solicit and enroll participants, Annual Program Review/Evaluation
10/01/2026 to 09/30/2027	Quarter 1 Oct-Dec 2026	Solicit and enroll participants, Attend Conferences/Training, Purchase Cell Phones, Purchase Computer Equipment, Purchase Office Supplies, Purchase Outreach and Education Materials, Purchase Postage, Contract Translation Services, Contract Diagnostic, Review, & Repair Services, Contract Legal Services, Purchase Print Services
	Quarter 2 Jan-Mar 2027	Solicit and enroll participants
	Quarter 3 Apr-June 2027	Solicit and enroll participants
	Quarter 4 Jul-Sep 2027	Solicit and enroll participants, Annual Program Review/Evaluation
10/01/2027 to 09/30/2028	Quarter 1 Oct-Dec 2027	Solicit and enroll participants, Attend Conferences/Training, Purchase Cell Phones, Purchase Computer Equipment, Purchase Office Supplies, Purchase Outreach and Education Materials, Purchase Postage, Contract Translation Services, Contract Diagnostic, Review, & Repair Services, Contract Legal Services, Purchase Print Services
	Quarter 2 Jan-Mar 2028	Solicit and enroll participants
	Quarter 3 Apr-June 2028	Solicit and enroll participants
	Quarter 4 Jul-Sep 2028	Solicit and enroll participants, Annual Program Review/Evaluation
10/01/2028 to 09/30/2029	Quarter 1 Oct-Dec 2028	Solicit and enroll participants, Attend Conferences/Training, Purchase Cell Phones, Purchase Computer Equipment, Purchase Office Supplies, Purchase Outreach and Education Materials, Purchase Postage,

		Contract Translation Services, Contract Diagnostic, Review, & Repair Services, Contract Legal Services, Purchase Print Services
	Quarter 2 Jan-Mar 2029	Solicit and enroll participants
	Quarter 3 Apr-June 2029	Program closeout
	Quarter 4 Jul-Sep 2029	All funds expended by this quarter.
Final Report Submission	Oct 2029 to Jan 2030	Final report due within 120 calendar days of grant expiration.

3. Location – Climate and Economic Justice Screening Tool (CEJST)

The location of CPRG Coalition Grant Activities is in accordance with **Exhibit F – Climate and Economic Justice Screening Tool (CEJST) Census Tract IDs.**

4. Environmental Results – Outputs, Outcomes, and Performance Measures

The following outputs, outcomes, and performance measures will be tracked and reported on a quarterly basis with reports submitted to the City, using the template included as Attachment 2:

Project 12: Residential Energy Efficiency

- 800 home energy efficiency repairs
- 9 staff members hired for project administration and implementation
- Track number of homes retrofitted

5. Budget

PHOENIX ENERGY EFFICIENCY BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
	Program Manager	\$102,669	\$105,749	\$108,922	\$112,189	\$115,555	\$545,084
	Project Manager	\$88,691	\$91,352	\$94,092	\$96,915	\$99,823	\$470,873
	Project Manager	\$88,691	\$91,352	\$94,092	\$96,915	\$99,823	\$470,873
	Admin Asst II	\$80,454	\$82,868	\$85,354	\$87,914	\$90,552	\$427,141
	Project Management Assistant	\$66,186	\$68,172	\$70,217	\$72,323	\$74,493	\$351,390
	Project Management Assistant	\$66,186	\$68,172	\$70,217	\$72,323	\$74,493	\$351,390
	Community Worker III	\$53,165	\$54,760	\$56,403	\$58,095	\$59,838	\$282,260
	Community Worker III	\$53,165	\$54,760	\$56,403	\$58,095	\$59,838	\$282,260
	Accountant I	\$63,045	\$64,936	\$66,884	\$68,891	\$70,958	\$334,714
	TOTAL PERSONNEL	\$662,252	\$682,120	\$702,583	\$723,661	\$745,370	\$3,515,986
	Fringe Benefits						
	Program Manager	\$54,754	\$56,397	\$58,089	\$59,831	\$61,626	\$290,696
	Project Manager	\$49,316	\$50,795	\$52,319	\$53,889	\$55,506	\$261,825
	Project Manager	\$49,316	\$50,795	\$52,319	\$53,889	\$55,506	\$261,825
	Admin Asst II	\$46,112	\$47,495	\$48,920	\$50,388	\$51,899	\$244,815
	Project Management Assistant	\$40,562	\$41,779	\$43,032	\$44,323	\$45,653	\$215,349
	Project Management Assistant	\$40,562	\$41,779	\$43,032	\$44,323	\$45,653	\$215,349
	Community Worker III	\$35,496	\$36,561	\$37,658	\$38,787	\$39,951	\$188,453
	Community Worker III	\$35,496	\$36,561	\$37,658	\$38,787	\$39,951	\$188,453
	Accountant I	\$39,339	\$40,519	\$41,735	\$42,987	\$44,276	\$208,856
	TOTAL FRINGE BENEFITS	\$390,953	\$402,682	\$414,762	\$427,205	\$440,021	\$2,075,623
	Travel						
	Mileage	\$670	\$670	\$670	\$670	\$670	\$3,350
	Conference/Training	\$10,000	\$10,000	\$10,000	\$5,000	\$5,000	\$40,000
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$10,670	\$10,670	\$10,670	\$5,670	\$5,670	\$43,350
	Equipment						
	Badging	\$495					\$495
	Cell Phones	\$3,400	\$3,400	\$3,400	\$3,400	\$3,400	\$17,000
	Computer Equipment	\$27,000	\$3,000	\$3,000	\$3,000	\$3,000	\$39,000
	TOTAL EQUIPMENT	\$30,895	\$6,400	\$6,400	\$6,400	\$6,400	\$56,495
	Supplies						
	Office Supplies	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$6,250
	Outreach & Education Materials	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$20,000
	Postage	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$5,000
	TOTAL SUPPLIES	\$6,250	\$6,250	\$6,250	\$6,250	\$6,250	\$31,250
	Contractual						
	Translation Services	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$15,000
	Diagnostic, Review, & Repair Services	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$20,000,000
	Legal	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$10,000
	TOTAL CONTRACTUAL	\$4,005,000	\$4,005,000	\$4,005,000	\$4,005,000	\$4,005,000	\$20,025,000
	OTHER						
	Furniture	\$30,000					\$30,000
	Print Services	\$4,000	\$2,500	\$2,500	\$1,000	\$500	\$10,500
							\$0
							\$0
							\$0
							\$0
	TOTAL OTHER	\$34,000	\$2,500	\$2,500	\$1,000	\$500	\$40,500
	TOTAL DIRECT	\$5,140,020	\$5,115,621	\$5,148,165	\$5,175,186	\$5,209,212	\$25,788,203
Indirect Costs	Indirect Costs						
							\$0
							\$0
	TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING		\$5,140,020	\$5,115,621	\$5,148,165	\$5,175,186	\$5,209,212	\$25,788,203

1. Description of Work Plan - Zero Emission Buses

This project will procure battery electric buses and hydrogen fuel cell electric buses for use by the City of Phoenix Public Transit Fleet.

2. Schedule

The schedule for completion of the CPRG Coalition Grant Activities is from the effective date of this Agreement through January 31, 2030. Funds awarded must be expended by September 30, 2029.

Federal Fiscal Year	Quarter	Description of Activities
10/01/2024 to 09/30/2025	Quarter 1 Oct-Dec 2024	Purchase battery electric buses, Purchase hydrogen fuel cell electric buses.
	Quarter 2 Jan-Mar 2025	Take delivery of pilot buses (first of each type). Inspect for production quality issues. Make 80%payment
	Quarter 3 Apr-June 2025	Verify work completed. Send bus through make-ready, enter bus into service. Monitor bus performance. Make 20% payment.
	Quarter 4 Jul-Sep 2025	Take delivery of remaining bus order. Follow same acceptance procedure. Enter buses into service. Make payment for them. Order battery electric buses, order hydrogen fuel cell electric buses.
10/01/2025 to 09/30/2026	Quarter 1 Oct-Dec 2025	No activity.
	Quarter 2 Jan-Mar 2026	Take delivery of pilot buses (first of each type). Inspect for production quality issues. Make 80%payment
	Quarter 3 Apr-June 2026	Verify work completed. Send bus through make-ready, enter bus into service. Monitor bus performance. Make 20% payment.
	Quarter 4 Jul-Sep 2026	Take delivery of remaining bus order. Follow same acceptance procedure. Enter buses into service. Make payment for them. Order battery electric buses, order hydrogen fuel cell electric buses.
10/01/2026 to 09/30/2027	Quarter 1 Oct-Dec 2026	No activity.
	Quarter 2 Jan-Mar 2027	Take delivery of pilot buses (first of each type). Inspect for production quality issues. Make 80%payment

	Quarter 3 Apr-June 2027	Verify work completed. Send bus through make-ready, enter bus into service. Monitor bus performance. Make 20% payment. <i>Advertise for new green transit bus contract.</i>
	Quarter 4 Jul-Sep 2027	Take delivery of remaining bus order. Follow same acceptance procedure. Enter buses into service. Make payment for them. Order battery electric buses, Order hydrogen fuel cell electric buses.
10/01/2027 to 09/30/2028	Quarter 1 Oct-Dec 2027	<i>Award new green transit bus contract.</i>
	Quarter 2 Jan-Mar 2028	Take delivery of pilot buses (first of each type). Inspect for production quality issues.
	Quarter 3 Apr-June 2028	Verify work completed. Send bus through make-ready, enter bus into service. Monitor bus performance. Make 20% payment.
	Quarter 4 Jul-Sep 2028	Take delivery of remaining bus order. Follow same acceptance procedure. Enter buses into service. Make payment for them. Order battery electric buses, order hydrogen fuel cell electric buses.
10/01/2028 to 09/30/2029	Quarter 1 Oct-Dec 2028	No activity.
	Quarter 2 Jan-Mar 2029	Take delivery of pilot buses (first of each type). Inspect for production quality issues.
	Quarter 3 Apr-June 2029	Verify work completed. Send bus through make-ready, enter bus into service. Monitor bus performance. Make 20% payment.
	Quarter 4 Jul-Sep 2029	Take delivery of remaining bus order. Follow same acceptance procedure. Enter buses into service. Make payment for them. All funds expended by this quarter.
Final Report Submission	Oct 2029 to Jan 2030	Final report due within 120 calendar days of grant expiration.

3. Location – Climate and Economic Justice Screening Tool (CEJST)

The location of CPRG Coalition Grant Activities is in accordance with **Exhibit F – Climate and Economic Justice Screening Tool (CEJST) Census Tract IDs.**

4. Environmental Results – Outputs, Outcomes, and Performance Measures

The following outputs, outcomes, and performance measures will be tracked and reported on a quarterly basis with reports submitted to the City, using the template included as Attachment 2:

Please include the outputs, outcomes, and performance measures as identified in the Work Plan.

Project 8: City of Phoenix Zero Emission Buses

- 20 battery electric buses
- 20 fuel cell electric buses
- Monitor mileage, emissions trends, and any community feedback on deployed vehicles.
- Track ridership on routes where transit vehicles are deployed.

5. Budget

PHOENIX ZERO EMISSION BUSES BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
							\$0
							\$0
							\$0
	TOTAL PERSONNEL	\$0	\$0	\$0	\$0	\$0	\$0
	Fringe Benefits						
							\$0
							\$0
							\$0
	TOTAL FRINGE BENEFITS	\$0	\$0	\$0	\$0	\$0	\$0
	Travel						
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment						
	Battery Electric Buses (10 per year)	\$16,214,120	\$16,700,544				\$32,914,664
	Hydrogen Fuel Cell Electric Buses (10 per year)	16190000	\$16,675,700				\$32,865,700
	TOTAL EQUIPMENT	\$32,404,120	\$33,376,244	\$0	\$0	\$0	\$65,780,364
	Supplies						
							\$0
							\$0
	TOTAL SUPPLIES	\$0	\$0	\$0	\$0	\$0	\$0
	Contractual						
							\$0
							\$0
							\$0
							\$0
	TOTAL CONTRACTUAL	\$0	\$0	\$0	\$0	\$0	\$0
	OTHER						
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL OTHER	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL DIRECT	\$32,404,120	\$33,376,244	\$0	\$0	\$0	\$65,780,364
Indirect Costs	Indirect Costs						
							\$0
							\$0
	TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING		\$32,404,120	\$33,376,244	\$0	\$0	\$0	\$65,780,364

1. Description of Work Plan – Microgrid on Municipal Buildings

The City of Phoenix is proposing developing up to ten microgrids on municipal buildings serving as Resilience Hubs throughout the Maricopa/Pinal County Region. This project includes energy audits, energy efficiency retrofits suggested from the audits, hiring consultants to design and install the microgrids, and developing operations and maintenance manuals based on best practices.

2. Schedule

The schedule for completion of the CPRG Coalition Grant Activities is from the effective date of this Agreement through January 31, 2030. Funds awarded must be expended by September 30, 2029.

Federal Fiscal Year	Quarter	Description of Activities
10/01/2024 to 09/30/2025	Quarter 1 Oct-Dec 2024	Municipality application selection process begins.
	Quarter 2 Jan-Mar 2025	Municipality application selection process ends.
	Quarter 3 Apr-June 2025	RFP for Energy Audits. RFP for microgrid design consultation
	Quarter 4 Jul-Sep 2025	Energy Audits started
10/01/2025 to 09/30/2026	Quarter 1 Oct-Dec 2025	Energy retrofits started. Microgrid design consultation begins
	Quarter 2 Jan-Mar 2026	
	Quarter 3 Apr-June 2026	
	Quarter 4 Jul-Sep 2026	RFP for microgrid installation.
10/01/2026 to 09/30/2027	Quarter 1 Oct-Dec 2026	Microgrid installation begins
	Quarter 2 Jan-Mar 2027	
	Quarter 3 Apr-June 2027	
	Quarter 4 Jul-Sep 2027	
10/01/2027 to 09/30/2028	Quarter 1 Oct-Dec 2027	
	Quarter 2	

	Jan-Mar 2028	
	Quarter 3 Apr-June 2028	
	Quarter 4 Jul-Sep 2028	
10/01/2028 to 09/30/2029	Quarter 1 Oct-Dec 2028	Microgrid Commissioning complete on all sites Handoff of O&M Manuals
	Quarter 2 Jan-Mar 2029	
	Quarter 3 Apr-June 2029	
	Quarter 4 Jul-Sep 2029	All funds expended by this quarter.
Final Report Submission	Oct 2029 to Jan 2030	Final report due within 120 calendar days of grant expiration.

3. Location – Climate and Economic Justice Screening Tool (CEJST)

The location of CPRG Coalition Grant Activities is in accordance with **Exhibit F – Climate and Economic Justice Screening Tool (CEJST) Census Tract IDs.**

4. Environmental Results – Outputs, Outcomes, and Performance Measures

The following outputs, outcomes, and performance measures will be tracked and reported on a quarterly basis with reports submitted to the City, using the template included as Attachment 2:

Project 1: Microgrids on Municipal Buildings

- 3 microgrids brought online in Tempe
- 10 microgrids with Coalition members and partners
- 6,379,797 kilowatt hours (kWh) of clean electricity generated (by 2030)
 - 1,675,252 kWh generated in Tempe
 - 4,704,545 kWh generated from Coalition members and partners
- 1 staff member hired for project implementation in Tempe

5. Budget

PHOENIX MICROGRID BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
							\$0
	TOTAL PERSONNEL	\$0	\$0	\$0	\$0	\$0	\$0
	Fringe Benefits						
		\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL FRINGE BENEFITS	\$0	\$0	\$0	\$0	\$0	\$0
	Travel						
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment						
							\$0
							\$0
	TOTAL EQUIPMENT	\$0	\$0	\$0	\$0	\$0	\$0
	Supplies						
							\$0
							\$0
	TOTAL SUPPLIES	\$0	\$0	\$0	\$0	\$0	\$0
	Contractual						
	Coalition Members and Partners Microgrid Expansion (+10 additional facilities)						\$0
	Audits	\$295,195					\$295,195
	Retrofit		\$2,696,287				\$2,696,287
	Consultant			\$4,432,951			\$4,432,951
	Installation				\$22,575,567		\$22,575,567
							\$0
	TOTAL CONTRACTUAL	\$295,195	\$2,696,287	\$4,432,951	\$22,575,567	\$0	\$30,000,000
	OTHER						
							\$0
							\$0
							\$0
	TOTAL OTHER	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL DIRECT	\$295,195	\$2,696,287	\$4,432,951	\$22,575,567	\$0	\$30,000,000
Indirect Costs	Indirect Costs						
							\$0
							\$0
	TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING		\$295,195	\$2,696,287	\$4,432,951	\$22,575,567	\$0	\$30,000,000

1. Description of Work Plan – Circular Food Economy Project

This project reduces residential household food waste and Greenhouse Gas Emissions (GHG) by partnering directly with the private sector to build and scale a true circular economy of food model for the City of Phoenix and Greater Phoenix region. This circular economy of food model for Phoenix and the Greater Phoenix region will do more than focus on simple composting measures. It is a comprehensive effort to link residents in food deserts and low-income census tracts with urban farmers, food aggregators/distributors, and food recyclers. Residents will receive monthly composting services along with monthly deliveries of fresh, healthy, and culturally relevant produce grown from traditional and vertical farms. These food producers will utilize liquid fertilizer produced by a modular and solar powered anaerobic digestion facility.

The project is designed in five yearly phases with expansion from the City of Phoenix to the cities of Tempe, Glendale, Tolleson, and Avondale covering the western portion of Maricopa County. This project serves as a complement to the Food Waste project included in the CPRG WorkPlan from the City of Mesa, which intends to serve the eastern portion of the county.

2. Schedule

The schedule for completion of the CPRG Coalition Grant Activities is from the effective date of this Agreement through January 31, 2030. Funds awarded must be expended by September 30, 2029.

Federal Fiscal Year	Quarter	Description of Activities
Year 1 10/01/2024 to 09/30/2025	Quarter 1 Oct-Dec 2024	<u>Food Waste Collection</u> Purchase \$125k collection truck Purchase 500 collection buckets and receive allocation for 500 in-home food recyclers for year 1 of program Begin marketing effort to generate 500 year 1 participants in program <u>Anaerobic Digester</u> Source land for the first anaerobic digester and obtain permits for construction.
	Quarter 2 Jan-Mar 2025	<u>Food Waste Collection</u> Receive \$125k collection truck Receive 500 collection buckets for year 1 of program Continue marketing effort to generate 500 year 1 participants in program <u>Anaerobic Digester</u> Install the first anaerobic digester and start the pilot food waste program. Distribute food waste derived fertilizer to local farms

		and nurseries. Prepare organic certificate for food waste derived fertilizer. Start food production in the vertical farm.
	Quarter 3 Apr-June 2025	<p><u>Food Waste Collection</u> Begin Collection Services (as defined above) for first 250 residents New Quarterly Participants: 250 HH Total Participants: 250 HH</p> <p><u>Farm box deliveries</u> Start farm box delivery service for the participating residents.</p> <p><u>Anaerobic Digester</u> Reach the full capacity of the first anaerobic digester, 10 tons per day. Distribute food waste derived fertilizer via broader sales channels.</p>
	Quarter 4 Jul-Sep 2025	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 250 HH Total Participants: 500 HH Begin quarterly reporting for City of Phoenix, with statistics to include: pounds of food waste diverted from landfill, emissions avoidance statistics, user interaction with connected, food recycling bin (the “<u>Quarterly Food Waste Collection Report</u>”)</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Review first-year performance and improve operation efficiency. Keep operating the anaerobic digester.</p>
Year 2 10/01/2025 to 09/30/2026	Quarter 1 Oct-Dec 2025	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 250 HH Total Participants: 750 HH Purchase 1,000 collection buckets and receive allocation for 1,000 in-home food recyclers for year 2 of program Provide Quarterly Food Waste Collection Report to City of Phoenix</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p>

		<p><u>Anaerobic Digester</u> Keep operating the anaerobic digester. Develop a broader sales network for food waste derived fertilizer.</p>
	Quarter 2 Jan-Mar 2026	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 250 HH Total Participants: 1,000 HH Provide Quarterly Food Waste Collection Report to City of Phoenix</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Keep operating the anaerobic digester.</p>
	Quarter 3 Apr-June 2026	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 250 HH Total Participants: 1,250 HH Provide Quarterly Food Waste Collection Report to City of Phoenix</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Keep operating the anaerobic digester.</p>
	Quarter 4 Jul-Sep 2026	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 250 HH Total Participants: 1,500 HH Provide Quarterly and Annual Food Waste Collection Report to City of Phoenix</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Review second-year performance and improve operation efficiency. Keep operating the anaerobic digester.</p>
Year 3	Quarter 1	<p><u>Food Waste Collection</u></p>

10/01/2026 to 09/30/2027	Oct-Dec 2026	<p>Ongoing Collection Services New Quarterly Participants: 375 HH Total Participants: 1,875 HH Provide Quarterly Food Waste Collection Report to City of Phoenix Purchase 1,500 collection buckets and receive allocation for 1,500 in-home food recyclers for year 3 of program Purchase \$125k collection truck</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Keep operating the anaerobic digester and distribute food. Develop a broader sales network for food waste derived fertilizer.</p>
	Quarter 2 Jan-Mar 2027	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 375 HH Total Participants: 2,250 HH Provide Quarterly Food Waste Collection Report to City of Phoenix Receive \$125k collection truck</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Keep operating the anaerobic digester.</p>
	Quarter 3 Apr-June 2027	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 375 HH Total Participants: 2,625 HH Provide Quarterly Food Waste Collection Report to City of Phoenix</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Keep operating the anaerobic digester.</p>
	Quarter 4	<p><u>Food Waste Collection</u></p>

	Jul-Sep 2027	<p>Ongoing Collection Services New Quarterly Participants: 375 HH Total Participants: 3,000 HH Provide Quarterly and Annual Food Waste Collection Report to City of Phoenix</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Review third-year performance and improve operation efficiency. Keep operating the anaerobic digester.</p>
Year 4 10/01/2027 to 09/30/2028	Quarter 1 Oct-Dec 2027	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 500 HH Total Participants: 3,500 HH Provide Quarterly Food Waste Collection Report to City of Phoenix Purchase 2,000 collection buckets and receive allocation for 2,000 in-home food recyclers for year 4 of program</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Keep operating the anaerobic digester and distribute food. Develop a broader sales network for food waste derived fertilizer.</p>
	Quarter 2 Jan-Mar 2028	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 500 HH Total Participants: 4,000 HH Provide Quarterly Food Waste Collection Report to City of Phoenix</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Keep operating the anaerobic digester.</p>
	Quarter 3	<u>Food Waste Collection</u>

	Apr-June 2028	<p>Ongoing Collection Services New Quarterly Participants: 500 HH Total Participants: 4,500 HH Provide Quarterly Food Waste Collection Report to City of Phoenix</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Keep operating the anaerobic digester.</p>
	Quarter 4 Jul-Sep 2028	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 500 HH Total Participants: 5,000 HH Provide Quarterly and Annual Food Waste Collection Report to City of Phoenix</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Review forth-year performance and improve operation efficiency. Prepare the second anaerobic digester. Keep operating the anaerobic digester.</p>
Year 5 10/01/2028 to 09/30/2029	Quarter 1 Oct-Dec 2028	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 1,250 HH Total Participants: 6,250 HH Provide Quarterly Food Waste Collection Report to City of Phoenix Purchase 5,000 collection buckets and receive allocation for 5,000 in-home food recyclers for year 5 of program Purchase \$125k collection truck</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u></p>

		Source land for the second anaerobic digester and obtain permits for construction.
	Quarter 2 Jan-Mar 2029	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 1,250 HH Total Participants: 7,500 HH Provide Quarterly Food Waste Collection Report to City of Phoenix Receive \$125k collection truck</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Install the second anaerobic digester and start the second pilot food waste program. Develop a broader sales network for food waste derived fertilizer.</p>
	Quarter 3 Apr-June 2029	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 1,250 HH Total Participants: 8,750 HH Provide Quarterly Food Waste Collection Report to City of Phoenix</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p> <p><u>Anaerobic Digester</u> Reach the full capacity of the second anaerobic digester, 10 tons per day. Distribute food waste derived fertilizer via broader sales channels.</p>
	Quarter 4 Jul-Sep 2029	<p><u>Food Waste Collection</u> Ongoing Collection Services New Quarterly Participants: 1,250 HH Total Participants: 10,000 HH Provide Quarterly and Annual Food Waste Collection Report to City of Phoenix</p> <p><u>Farm box deliveries</u> Keep farm box delivery service for the existing and new participating residents.</p>

		<u>Anaerobic Digester</u> Review fifth-year performance and improve operation. Project future growth opportunities. Keep operating the anaerobic digester.
Final Report Submission	Oct 2029 to Jan 2030	<u>Food Waste Collection & Anaerobic Digester</u> Submit Final Report with 120 calendar days of grand expiration

3. Location – Climate and Economic Justice Screening Tool (CEJST)

The location of CPRG Coalition Grant Activities is in accordance with **Exhibit F – Climate and Economic Justice Screening Tool (CEJST) Census Tract IDs.**

4. Environmental Results – Outputs, Outcomes, and Performance Measures

The following outputs, outcomes, and performance measures will be tracked and reported on a quarterly basis with reports submitted to the City, using the template included as Attachment 2:

Project 15: City of Phoenix Circular Food Economy

- 21,900 tons of food waste diverted from landfills
- 1 staff member hired for project implementation

5. Budget

PHOENIX CIRCULAR FOOD ECONOMY BUDGET BY YEAR							
COST-TYPE	CATEGORY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
Direct Costs	Personnel						
	1 Project Manager 0.0833 FTE @ \$80,000/yr (for the the first month of operation).	\$6,667					\$6,667
							\$0
							\$0
	TOTAL PERSONNEL	\$6,667	\$0	\$0	\$0	\$0	\$6,667
	Fringe Benefits						
	Full-time Employees @ 17% of salary	\$1,133					\$1,133
							\$0
							\$0
	TOTAL FRINGE BENEFITS	\$1,133	\$0	\$0	\$0	\$0	\$1,133
	Travel						
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL TRAVEL	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment						
	Expansion if milestones met: 10 ton/day modular anaerobic digestion facility						
	New Trucks (\$125k per truck)	\$125,000		\$125,000		\$125,000	\$375,000
	New Buckets (\$10 per truck)	\$5,000	\$10,000	\$15,000	\$20,000	\$50,000	\$100,000
	TOTAL EQUIPMENT	\$130,000	\$10,000	\$140,000	\$20,000	\$175,000	\$475,000
	Supplies						
	Chemical for anaerobic digestion, covering the first month	\$5,000					\$5,000
							\$0
	TOTAL SUPPLIES	\$5,000	\$0	\$0	\$0	\$0	\$5,000
	Contractual						
	10 ton/day modular anaerobic digestion facility	\$1,500,000					\$1,500,000
	Expansion if milestones met: 10 ton/day modular anaerobic digestion facility	\$260,000				\$1,500,000	\$1,760,000
	Delivery of liquid fertilizer, \$20/hr for 3hr/day	\$21,600	\$21,600	\$21,600	\$21,600	\$21,600	\$108,000
	Liquid fertilizer for small, disadvantaged, and BIPOC food producers	\$229,216	\$229,216	\$229,216	\$229,216	\$229,216	\$1,146,080
	Vertical Farm Food Production	\$18,000	\$55,620	\$114,660	\$196,800	\$405,412	\$790,492
	Annual Collection Costs (\$19.60-21.18 per household per month)	\$63,540	\$254,160	\$571,860	\$940,800	\$1,764,000	\$3,594,360
	Annual Farm Box Costs (\$15.00 per household per month)	\$45,000	\$180,000	\$405,000	\$720,000	\$1,350,000	\$2,700,000
	Annual Tipping Fees (\$34.00 per ton)	\$388	\$1,551	\$3,490	\$6,205	\$11,634	\$23,268
	One-time Set-up Costs (\$15.00 per household)	\$7,500	\$15,000	\$22,500	\$30,000	\$75,000	\$150,000
	TOTAL CONTRACTUAL	\$2,145,244	\$757,147	\$1,368,326	\$2,144,621	\$5,356,862	\$11,772,200
	OTHER						
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
	TOTAL OTHER	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL DIRECT	\$2,288,044	\$767,147	\$1,508,326	\$2,164,621	\$5,531,862	\$12,260,000
Indirect Costs	Indirect Costs						
							\$0
							\$0
	TOTAL INDIRECT	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL FUNDING		\$2,288,044	\$767,147	\$1,508,326	\$2,164,621	\$5,531,862	\$12,260,000

Attachment 1 – Invoice Template

Invoices received from Coalition members may be in a format that is typically used by each Coalition Member and each invoice must include the following information.

Coalition Member Remittance Address

Date: *Month, Day, Year*

City of Phoenix
Attn: Nancy Allen
Office of Environmental Programs
200 W Washington Street 14th Floor
Phoenix, AZ 85003

Ordinance #: *TBD*
PO: *TBD*
Cost Center: *TBD*
Vendor #: *TBD*

Description	Amount
Personnel	\$X.XX
Fringe Benefits	\$X.XX
Travel	\$X.XX
Equipment	\$X.XX
Supplies	\$X.XX
Contractual	\$X.XX
Other	
TOTAL DIRECT	\$X.XX
TOTAL INDIRECT	\$X.XX
TOTAL DUE	\$X.XX

Attachment 2 –Report Template

Coalition Member Quarterly Report for *insert dates covered*.

Quarterly Report Submitted: *insert date of submission*.

Quarterly reports are due by the 10th of the month following the end of the quarter. The Coalition Member should describe and summarize technical progress, accomplishments, and milestones achieved including a description of outputs and outcomes, community engagement, planned activities for the next quarter and a summary of expenditures to date. Relevant photographs are requested and should be included wherever possible. The City will compile the information from Coalition Members and submit to EPA per the grant reporting requirements.

Technical Progress

Accomplishments

Milestones Achieved

Outputs, Outcomes, Performance Measures

Community Engagement

Planned Activities for the Next Quarter

Progress Pictures

Summary of Expenditures to date

	Budget	Costs Incurred this Quarter	Costs Incurred to Date	Costs Expected to be Incurred Next Quarter	Total Remaining
Personnel					
Fringe Benefits					
Travel					
Equipment					
Supplies					
Contractual					
Other					
TOTAL DIRECT					
TOTAL INDIRECT					
TOTAL FUNDS					

Exhibit F - CPRG Coalition Grant Work Plan



Resilient Maricopa-Pinal County Region Priority Climate Implementation Plan

Work Plan

April 1, 2024



CONTENTS

1. Overall Project Summary and Approach.....	1
a. Description of GHG Reduction Measures	2
b. Demonstration of Funding Need	8
c. Transformative Impact.....	9
2. Impact of GHG Reduction Measures	10
a. Magnitude of GHG Reductions from 2025 through 2030.....	10
b. Magnitude of GHG Reductions from 2025 through 2050.....	10
c. Cost Effectiveness of GHG Reductions.....	12
d. Documentation of GHG Reduction Assumptions	12
3. Environmental Results – Outputs, Outcomes, and Performance Measures	12
a. Expected Outputs and Outcomes	12
b. Performance Measures and Plan	16
c. Authorities, Implementation Timeline, and Milestones	16
4. Low-Income and Disadvantaged Communities	17
a. Community Benefits	17
b. Community Engagement	21
5. Job Quality	21
a. Educational Programs and Linkage to Supporting Occupations	22
b. Budget Justification.....	22
6. Programmatic Capability and Past Performance	23
a. Past Performance.....	23
b. Reporting Requirements	24
c. Staff Expertise	24
Budget.....	24



FIGURES

Figure 1: Guide to PCAP Measures and Grant Narrative Titles	1
Figure 2: Alignment with EPA Goals	2
Figure 3: Measures and projects' timeline and summary of outputs for performance	14
Figure 4: Mobile and nonpoint HAP sources in Maricopa County and Pinal County	15
Figure 5: MCC's Workforce Program Offerings	22
Figure 6: Past Assistance Agreement Performance	23
Figure 7: CPRG Organizational Chart	25

TABLES

Table 1: Coalition members' roles and responsibilities, by project	7
Table 2: Magnitude of GHG reductions	11
Table 3: CEJST-designated LIDAC census tracts	17
Table 4: Consolidated budget	24



1. Overall Project Summary and Approach

The *Resilient Maricopa-Pinal County Region Priority Climate Implementation Plan* aims to transform the region through a collaborative effort to reduce greenhouse gas (GHG) emissions, mitigate air pollution, and engage the community through workforce development and education.

The challenges of climate change and rapid growth are dramatic here; in 2023, the region experienced 50% more heat-related deaths than the prior year (which also set a record for heat-related deaths).¹ This Climate Pollution Reduction Grant (CPRG) application builds on the region's ambitious efforts to address the dangers of climate change in our unique desert environment.

On April 26, 2023, following a vote of the Maricopa Association of Governments (MAG) Regional Council, MAG submitted a Notice of Intent to Participate in the CPRG program. MAG worked with agencies to develop the *Maricopa-Pinal County Region Priority Climate Action Plan* (PCAP). The PCAP shows how the region (including 27 cities and towns, three Native nations, Maricopa County, and portions of Pinal County) plans to reduce GHG emissions and improve air quality—

“Climate action is not only a public health and environmental imperative—it is central to ensuring equity and accessibility, modernizing our economy, fostering new jobs and talent in response to emerging markets, and ensuring Arizona and the region remains competitive.”

– Phoenix Mayor Kate Gallego

striving for a safer future for the nearly 5 million people who call this region home.

To implement the PCAP, a Coalition was formed that includes the City of Phoenix (lead applicant), State of Arizona – Arizona Governor's Office of Resiliency, Maricopa County, City of Mesa, and the City of Tempe. This Coalition

Figure 1: Guide to PCAP Measures and Grant Narrative Titles

PCAP Measure Title	Narrative Title	Icon
Development of Microgrids	1: Microgrids	
Public Fleet Electrification, Public Fleet Charging Infrastructure, and Publicly Available Charging Infrastructure Development	2: Fleet Electrification and Charging Infrastructure Development	
Electrification of Commercial and Governmental-Owned Lawn and Garden Equipment	3: Commercial Lawn Mower Electrification	
Weatherization Assistance Programs (Residential and Commercial)	4: Residential Energy Efficiency	
Electrification of Municipal, Commercial, and Residential Buildings	5: Fireplace Electrification	
Food Waste Diversion for Biogas Capture from Landfills and Wastewater Treatment Plants for Renewable Energy Generation	6: Food Waste Conversion	

shares a strong and substantial commitment to the proposed climate measures.

From an extensive list of measures and projects, six measures that best align with the goals of the CPRG program are advanced with this application. Figure 1 above shows the six selected measures, their alignment with the PCAP, and the abbreviated titles and symbols used to identify them throughout this application.































¹ Maricopa County. 2023 Set a New Record for Heat Deaths in a Single Year in Maricopa County. <https://www.maricopa.gov/CivicAlerts.aspx?AID=2888>



Each Coalition member has committed to supporting this effort and each Coalition city has adopted a Climate Action Plan, detailing their dedication to conserving the region's environment and addressing climate threats. The CPRG program offers a paradigm shift by providing funding to advance the most innovative and effective measures to reduce GHGs that might otherwise lack funding as the region manages the demands of being one of the top growth areas in the nation.²

Figure 2 below shows how each measure aligns with the goals of the U.S. Environmental Protection Agency's (EPA's) CPRG program.

Figure 2: Alignment with EPA Goals

Goals						
Significant GHG reductions						
Benefits to low-income and disadvantaged communities						
Complements other funding sources						
Innovative, replicable, and scalable policies and programs						

Notes: Extent of support for EPA climate goals:

● strongly supports ◐ supports ○ limited support

a. Description of GHG Reduction Measures

Each of the measures proposed in the CPRG program is described here, followed by major risks and mitigations considered to address those risks. Additional information on the measures is included throughout the remaining sections of this Workplan.

1: Microgrids

Climate change has increased the severity of natural disasters and exacerbated extreme heat in the region. In the event of a disaster, such as a power outage during a severe heatwave, it is imperative that residents have access to safe and cool shelter options along with essential resources. During a multiday blackout event with heat wave conditions, over 50% of residents in the Phoenix area would require medical attention;³ building local resilience to address such a scenario has become increasingly important for communities in the region.

The City of Tempe is proposing microgrids, installing solar and battery on three buildings serving as Resilience Hubs: Escalante Community Center, Westside Multi-Generational Center, and Tempe Public Library. Resilience Hubs provide cooling shelters during outages and offer daily programming and services to enhance community resilience, addressing socioeconomic challenges caused by historical inequities.

Funding requested as part of this measure will expand Tempe's model to 10 additional sites in the region, which has garnered interest from Coalition members and partners. Expanding upon Tempe's model will provide a stronger network of Resilience Hubs focused on combating the preventable deaths due to heat, which increased by 50% in 2023 over the prior year.

Risks. Tempe has developed the microgrid concept and does not anticipate substantial risk with implementation. The current schedule

² MAG. Regional Overview. <https://azmag.gov/Programs/Maps-and-Data/Community-Profiles/Regional-Overview>

³ Brian Stone, Jr., et al. How Blackouts during Heat Waves Amplify Mortality and Morbidity Risk. <https://pubs.acs.org/doi/pdf/10.1021/acs.est.2c09588>



identifies 4 years of development and construction, which is reasonable. Scaling this measure should not introduce additional risk.

2: Fleet Electrification and Charging Infrastructure Development

Nearly half (45.9%) of GHG emissions in Maricopa County came from vehicle emissions in 2020.⁴ Portions of the county are designated as air quality nonattainment areas for ozone and particulate matter (PM₁₀). Reducing nitrogen oxides (NOx) and volatile organic compounds (VOCs) (the precursors to ozone formation) are critical steps in the region's attainment efforts, and the CPRG funding for electrification of municipal fleets advances this goal. Medium- and heavy-duty vehicles account for 6% of vehicles on the road but generate 59% of ozone and particle-forming NOx emissions.⁵ In the Phoenix region, heavy truck traffic occurs around major highways and warehouses, which are often situated in low-income areas and thus exacerbate health disparities.

This measure funds the transition of public fleets to electric vehicles (EVs) and the installation of EV charging infrastructure (including utility upgrades). Projects include the procurement of light-, medium-, and heavy-duty service municipal and public transit vehicles (battery electric buses [BEBs] and hydrogen fuel cell electric buses [FCEBs]). This measure is highly effective in achieving near-term pollutant emission reductions.

This measure will be implemented by all Coalition members. In addition, the City of Phoenix will administer additional funding requests to extend this measure to Coalition partners (all MAG member agencies). This measure also includes associated workforce

development for EV-related jobs, expanding this measure's transformative impact for the region, because training provides the skills to not only support the Coalition members' efforts, but builds the capacity for private investment in EVs as well.

Electric Vehicle Fleets and Charging Infrastructure

EVs benefit the community by using clean energy, resulting in 60% to 80% fewer GHG emissions,^{6,7,8} lower maintenance and fuel costs, zero tailpipe emissions, and improved air quality. Today, nearly all municipal vehicles are powered by gasoline or diesel—costly fuels that contribute to the region's air pollution. These fuels are also stored in above or below ground tanks that require maintenance, replacement, and cleanup—at significant costs to municipal budgets.

Risks. Coalition members have experience in this area, with many having EV conversion plans in place that have considered the risks involved. Among them, finding qualified project managers and acquiring the proper maintenance certifications is a risk (given the scope of projects proposed). Workforce training is incorporated as part of the CPRG application to mitigate this risk, and the City of Tempe is planning training programs for both EV fleet vehicles and zero emission buses that provide needed skills for the workforce. Vehicle availability is another concern; however, as one of the leaders in EV adoption in the nation, Arizona has the capacity to meet this need. The increasing costs of EV charging infrastructure is another risk to program implementation. The City of Mesa, as an example, has a 10-year plan to electrify its light-duty vehicle fleet; however, uncertainty with infrastructure costs puts this plan at risk. This plan assists in the purchase of charging infrastructure sooner, allowing for

⁴ Maricopa County. County GHG Inventory Report, 2023.

⁵ American Lung Association. Delivering Clean Air: Health Benefits of Zero-Emission Trucks and Electricity. <https://www.lung.org/getmedia/e1ff935b-a935-4f49-91e5-151f1e643124/zero-emission-truck-report>

⁶ City of Phoenix. Climate Action Plan. <https://www.phoenix.gov/oepsite/Documents/2021ClimateActionPlanEnglish.pdf>

⁷ Argonne National Laboratory. Cradle-to-Grave Lifecycle Analysis of U.S. Light-Duty Vehicle-Fuel Pathways. https://greet.anl.gov/files/c2g_lca_us_ldv

⁸ Alternative Fuels Data Center. Emissions from Electric Vehicles. https://afdc.energy.gov/vehicles/electric_emissions.html



future local dollars to be focused on EV procurement. The Coalition members will continue to meet regularly to share these best practices to build the Coalition's capacity for EV conversion.

Zero Emission Buses

Electric buses (BEBs and FCEBs) produce zero direct emissions, reducing GHG emissions. As Phoenix strives to reduce its emissions, transitioning to zero emission buses will move the region toward a more sustainable and low-carbon transportation sector. Tempe's neighborhood circulator buses have the added EV benefit of eliminating air and noise pollution in neighborhoods. Electric buses showed the highest reduction in NOx emissions of all projects included in application, with 82.3 metric tons reduced by 2030 (77% of total reduction of all projects), and 388.9 metric tons by 2050 (75% of total reduction of all projects).

Risks. A major concern with transit providers is the lead time for zero emission buses. Electric buses are in high demand across the country, which causes longer lead times, although this will be accommodated through early planning and the certainty of future year planning the requested CPRG funding will provide. Both Tempe and Phoenix are discussing energy availability and feasibility with local power providers.

3: Commercial Lawn Mower Electrification

This measure electrifies commercial lawn mowers used by government agencies, universities, golf courses, and resorts. It offers a voucher program providing up to \$20,000 towards the cost of a new electric lawn mower for use in Maricopa County. The high cost of such lawn mowers has slowed the adoption of electric options, and the vouchers funded through this program will offset that differential, allowing businesses to benefit from the improved life-cycle costs of more efficient, lower-maintenance, and cleaner electric equipment.

Maricopa County's well-established program to reduce pollution from residential lawn equipment by switching to electric products bodes well for its ability to expand to commercial mowers. In addition to carbon dioxide (CO₂) emissions, pollutants emitted by gasoline-powered lawn equipment include fine particulate matter (PM_{2.5}), ozone-forming NOx, and VOCs. Maricopa County's Project 10 would result in 113.9 metric tons of VOCs reduced by 2030 (85% of all projects' VOC reduction) and 683.3 metric tons of VOCs reduced by 2050 (90% of all projects' VOC reduction).

Risks. A major impediment to the adoption of electric commercial lawn mowers is the cost. Maricopa County has done extensive research on this challenge and has adapted the program to account for the difference with vouchers. The County will work with Arizona State University's (ASU's) Sustainable Cities Network (SCN), which is leading the CPRG Community Engagement effort, to promote this program. Based on its residential lawn and garden program, the County is confident that awareness of the benefits of the electric equipment will generate interest, and word of mouth (once equipment is in use) will promote wide adoption of the commercial lawn mower electrification program.

4: Residential Energy Efficiency

This measure focuses on home repairs for low- to moderate-income households to reduce GHG emissions by improving the energy efficiency of homes.

Low-Income HVAC Replacement Program

Temperatures regularly exceed 110 degrees Fahrenheit in Maricopa County during summer months, creating an environment that requires significant use of heating, ventilation, and air conditioning (HVAC) units. These units are estimated to account for approximately 28% of residential electricity usage throughout Maricopa County.⁹

⁹ U.S. Energy Information Administration. Residential Energy Consumption Survey Dashboard.



The lack of functional cooling systems during the summer and heating systems during the winter poses a significant health and safety issue, and heat deaths in Maricopa County primarily affect low-income households (with approximately 94% of indoor deaths resulting from broken air conditioners, or the lack of such units).¹⁰ Replacing older, less-efficient HVAC systems in Maricopa County will also reduce peak energy demands during heat waves, supporting grid reliability as other sectors of Maricopa County are electrified. This will also reduce the energy cost burden for participating households.

Operated by Maricopa County, this project replaces low-efficiency HVAC systems with high-performance heat pumps for low- and moderate-income households. Implemented in coordination with the City of Phoenix energy efficiency upgrade programs described below (by referring participants who may qualify for additional services), this measure supports low-income households that are particularly reliant on a high-carbon economy and most vulnerable to extreme heat.

Risks. Maricopa County has implemented a similar program since 2021. An ongoing challenge has been skilled labor to implement the program. This risk will be mitigated with the incorporation of Workforce Development through collaboration with CPRG program partner Maricopa Community Colleges (MCC) and training to build capacity, both for the program and to satisfy increasing demand for trained HVAC equipment installers throughout the region.

Residential Energy Efficiency

The City of Phoenix will provide home repairs to low- to moderate-income Phoenix owner and tenant households to reduce their electricity usage by replacing inefficient, damaged, or inoperable materials, appliances, fixtures, or infrastructure with new, energy efficient models. Following evaluation, one or more of the following services will be provided: HVAC unit replacement, duct sealing and

replacement, insulation installation, and replacement of appliances. The program will also offer repair or replacement services for infrastructure and other items in the home that directly affect the feasibility of the project. Income eligibility guidelines apply to the program. The National Renewable Energy Laboratory estimates that implementing cost-effective upgrades would lower average utility bills for Arizona households by \$387 annually, with an estimated 18% residential energy efficiency potential for Arizona.¹¹

Risks. The City of Phoenix is actively implementing a similar program. Expansion through a CPRG award is balanced by the capacity of existing vendors to evaluate, plan, and implement the improvements. As Workforce Development training is offered, this risk will be further mitigated so that Phoenix can meet the outputs identified for CPRG.

5: Fireplace Electrification

Maricopa County will operate a program to replace wood-burning fireplaces with zero-emission electric fireplace inserts installed by contractors. With approval from the Maricopa County Air Quality Department (MCAQD) and proof of installation, MCAQD will pay the contractor the cost of the fireplace inserts and installation (up to \$2,000). Maricopa County plans to install 1,500 electric fireplaces throughout the county, which will reduce PM_{2.5} emissions by 15 tons by 2030. This program will be particularly beneficial as new PM_{2.5} regulations take effect, which may lead the MAG region to become a nonattainment area (not meeting federal standards for air quality).

Risks. Risks of implementation are low because this is based on the existing wood-burning fireplace replacement program (although the new program uses electric fireplace inserts rather than natural gas inserts). The rate of implementation is similar to today's program, and promotion of the program will help mitigate delays in adoption.

¹⁰ Maricopa County. Emergency Home Repair Program Helps Maricopa County Homeowners in Need. <https://www.maricopa.gov/CivicAlerts.aspx?AID=2727>

¹¹ National Renewable Energy Laboratory. Energy Efficiency Potential in the U.S. Single-Family Housing Stock. <https://www.nrel.gov/docs/fy18osti/68670.pdf>.



6: Food Waste Conversion

This measure includes two ground-breaking approaches to addressing food waste. According to an EPA report, food waste accounts for as much as 24% of the material in municipal landfills.¹² Wasted food in landfills is responsible for 58% of landfill methane emissions, and landfilling food waste fails to promote a circular economy because it doesn't use the food's nutrient value and wastes the energy, land, and water used to produce the food.¹³

City of Mesa Food Waste to Energy – Pre-processing Facility and Water Reclamation Plant Upgrades

This project will repurpose a former landfill site by constructing a pre-processing facility for food waste, which will divert organic waste from local landfills. Mesa will partner with other municipalities and the private sector to extend food waste processing services. Associated upgrades to Mesa's water reclamation plant will install a receiving station and equipment to inject the processed food waste into existing anaerobic digesters on site, which will generate biogas from the food waste, providing a renewable energy source while using existing infrastructure to maximize project benefits.

In addition to the GHG emissions avoided (from landfill, flare, and fossil fuel vehicle use), the project will extend the life of landfills and provide a local supply of renewable natural gas (RNG), which will be used to power Mesa's solid waste vehicle fleet.

Risks. This will be Mesa's first experience with food waste processing at scale. However, a feasibility study done in conjunction with ASU has demonstrated the viability of this project. Given the scope and size of the project, Mesa began implementation in phases, with the first phase currently under construction. The phased approach is allowing

Mesa to refine the biogas upgrading process from existing gas produced from municipal sewage, mitigating any potential risks.

City of Phoenix Circular Food Economy

Even with strong public support for diverting organic materials from landfills into composting processes, a very small percentage of these materials is currently captured. The City of Phoenix will partner with the private sector to build and scale a true circular economy. This project will link residents in food deserts and low-income census tracts with urban farmers, food aggregators/distributors, and food recyclers. Residents will receive monthly composting services and, in return, receive deliveries of fresh, healthy, culturally relevant, and locally grown produce. Food producers will use liquid fertilizer produced by a modular and solar-powered anaerobic digestion facility fed by diverted food waste.

Risks. The Phoenix project's greatest risk is the number of steps involved in moving from food waste diversion to food production. Phoenix has been building capacity to address this risk by implementing actions in its *2025 Food Action Plan*.¹⁴ Through seven years of collaboration, Phoenix has expanded its local network of private sector sustainability professionals supportive of circular food economy initiatives. Phoenix will rely on this network to deliver this program.

Together, these projects will address the sectors contributing the most GHG emissions in the Maricopa-Pinal County region and will meaningfully reduce those emissions, improve the region's air quality, and improve the quality of life for all, including the most vulnerable populations.

¹² EPA. Quantifying Methane Emissions from Landfilled Food Waste. https://www.epa.gov/system/files/documents/2023-10/food-waste-landfill-methane-10-8-23-final_508-compliant.pdf

¹³ Ibid.

¹⁴ City of Phoenix. 2025 Food Action Plan. <https://www.phoenix.gov/sustainabilitysite/Documents/FINAL%202025%20Phoenix%20Food%20Action%20Plan%20Jan%202020.pdf>



Coalition Roles and Responsibilities

On July 26, 2023, EPA notified MAG that it was selected as the lead planning agency for the CPRG Planning Grant program for the Phoenix-Mesa-Chandler Metropolitan Statistical Area (MSA). In this role, MAG prepared the PCAP, which was submitted to EPA by the March 1, 2024, deadline.

The City of Phoenix is the lead applicant for the *CPRG: Implementation Grants General Competition*. The City of Phoenix is the largest city in the MAG region and fifth largest city in the nation with a population of almost 1.7 million people, and has the institutional capacity and authority to assume this role. Phoenix's status as a Carbon Disclosure Project "A List city" and a C40 Cities member speaks to the City's commitment to reducing GHG emissions.

Table 1 shows the Coalition members roles and responsibilities by project. The Coalition members have all signed letters stating their intent to sign the Memorandum of Agreement with the City of Phoenix by July 1, 2024. These Letters of Intent are included as a separate attachment. In addition, letters of commitment and letters of support from coalition partners and stakeholders committed to the region's climate action are included as a separate attachment.

Table 1: Coalition members' roles and responsibilities, by project

Measures and Associated Projects		Phoenix	Arizona	Maricopa County	Mesa	Tempe
	1. Microgrid on Municipal Buildings					
	2. Maricopa County Fleet Electrification					
	3. City of Mesa Fleet Electrification					
	4. City of Tempe Fleet Electrification					
	5. City of Tempe Zero Emission Buses					
	6. City of Phoenix Fleet Electrification					
	7. City of Phoenix Heavy-duty Electric Vehicle Fleet Testing					
	8. City of Phoenix Zero Emission Buses					
	9. Arizona Office of Resiliency Fleet Electrification					
	10. Commercial Lawn Mower Electrification Program					
	11. Low Income HVAC Replacement Program					
	12. Residential Energy Efficiency					
	13. Regional Fireplace Electrification Program					
	14. City of Mesa Food Waste to Energy – Pre-processing Facility & Water Reclamation Plant Upgrades					
	15. City of Phoenix Circular Food Economy					

Notes: Lead Coalition Member; Participating Entities



b. Demonstration of Funding Need

Recognizing the significance and importance of the Bipartisan Infrastructure Law (BIL)—a “once-in-a-generation investment in our nation’s infrastructure, competitiveness, and Communities”¹⁵—and the Inflation Reduction Act (IRA), Coalition members have sought funding from federal programs authorized by the Acts. The City of Phoenix has pursued discretionary funding from over 40 individual funding opportunities. To date, it has applied for nearly \$3.1 billion and has been awarded over \$195 million—\$63 million of which funded City of Phoenix programs aimed at reducing GHG emissions, pollution, and impacts of extreme heat and climate change, which disproportionately affect the region’s most vulnerable residents.

Mesa has received an \$11.8 million federal grant to strengthen its public EV charging network throughout the City; details can be found at [MesaNow.org](https://mesanow.org).¹⁶ The Federal Transit Administration awarded Valley Metro a \$13.3 million Low-No Emission grant. These and similar funds awarded to other Coalition members help advance regional cities’ goals and will be further leveraged with a CPRG award.

Coalition members and partners are making use of funding provided through the BIL/Infrastructure Investment and Jobs Act (IIJA) and IRA, as well as other formula and discretionary grant programs to reduce emissions and address the climate crisis. However, this funding is not enough to meet the ambitious goals set by these agencies and accomplish EPA’s goal of “tackling the Climate Crisis.” Even with previous awards, a substantial need for funding remains throughout the region, compounded by anticipated ongoing decreases in revenues.

State revenues in Arizona have declined, and the State is facing a projected revenue shortfall of \$835 million and \$879 million for fiscal

years (FYs) 2023–2024 and 2024–2025, respectively. Local governments will also experience a decline in revenue of \$230 million annually as a result of the State’s elimination of the residential rental sales tax, beginning in January 2025. These factors have resulted in local governments facing significant budgetary shortfalls, in addition to the State’s revenue shortfalls. These shortfalls affect the ability to implement climate measures, as programs such as low-income weatherization and fleet electrification are paused to fund critical services. The CPRG program provides an opportunity to build on regional progress to date and to strengthen the commitment to important climate measures while state and municipal governments recover.

Arizona Senate Bill 1828 reduced individual income tax rates, beginning in 2022, to a “flat tax” rate of 2.5%. On June 9, 2023, the State’s Joint Legislative Budget Committee notified the Legislature of a significant decline in general fund revenue collections, primarily due to underestimating the impact of the rate reduction. Jurisdictions receive state-shared income taxes based on actual collections from 2 years prior. The estimated negative impact for FYs 2024–2025, 2025–2026, and 2026–2027 is approximately \$36 million, \$43 million, and \$41 million, respectively, for Phoenix alone, with all Coalition members affected.

A CPRG award of \$453 million will build on climate mitigation investments thus far and bolster the commitment the City of Phoenix and Coalition members have made to carbon neutrality and zero waste. The Coalition intends to leverage this investment with incentives from utilities, automakers, and/or charging companies, along with incentives available under the IIJA and IRA.

¹⁵ The White House. Fact Sheet: The Bipartisan Infrastructure Deal. <https://www.whitehouse.gov/briefing-room/statements-releases/2021/11/06/fact-sheet-the-bipartisan-infrastructure-deal/>.

¹⁶ Details at: <https://mesanow.org/news/public/article/3251>



c. Transformative Impact

Each CPRG measure will have a transformative impact in the region:

- Microgrids. Tempe's Resilience Hub Network draws from national examples of this initiative while offering a model unique to Arizona's challenges that will be part of a regional cooling center network. Partner agencies such as Avondale and Glendale desire to build microgrid facilities to support the most vulnerable populations during periods of intense heat and power disruptions.
- Fleet Electrification and Charging Infrastructure Development. Public works fleet conversions (both municipal fleet electrification and zero emission buses) are an effective means of reducing GHGs given the high usage rate of the vehicles. Arizona has the eighth-highest EV registration in the nation, and the workforce training component of this measure will provide the technical skills necessary to maintain the fleets and help transition workers to the "green economy" to support the region's transformation to EVs.¹⁷
- Commercial Lawn Mower Electrification. Incentivizing electric procurement preferences will drive conversion as commercial users experience electric lawn mowers, which have longer life spans, decreased fuel and maintenance costs, and quieter operation.
- Residential Energy Efficiency. This measure reduces GHGs while targeting the needs of the region's population disproportionately affected by extreme heat and urban heat island effects.¹⁸ Maricopa County's program provides a low-income HVAC replacement program and Phoenix's program provides energy efficiency repairs.
- Fireplace Electrification. CPRG funding will allow for expansion of efforts to decrease residential wood-burning activities, which improves air quality from woodsmoke reduction. With an approximately 15-ton reduction in PM_{2.5} pollution by 2030, this

program will assist with attainment of the National Ambient Air Quality Standards.

- Food Waste Conversion. Mesa states that with few wastewater reclamation plant projects collecting RNG nationwide, the City's program will provide a replicable model, and the project's capacity will enable other municipalities in the region to divert their food waste—reducing GHG emissions and their landfill needs. Phoenix's program, in addition to reducing GHGs, addresses the growing gap in healthy food resources in the region, especially for low-income persons, ethnic minorities, seniors, and children. The program, initiated with CPRG funds, is anticipated to expand to partner jurisdictions with food deserts affecting disadvantaged communities.

Comments from Stakeholders and Partners' letters*:

The Phoenix coalition, representing over half of the population of the State of Arizona, has developed a comprehensive plan to reduce greenhouse gas (GHG) emissions and improve air quality in our region.
U.S. Senators Mark Kelly and Krysten Sinema

[W]e believe that the funding of the PCAP will not only contribute to significant greenhouse gas reductions but also result in tangible benefits for community health and well-being, aligning with the goals of the CPRG program and President Biden's Justice40 Initiative.
Arizona Forward

The Resilient Maricopa-Pinal County Region Priority Climate Implementation Plan presents a unique opportunity for the region to harness and expand existing programs and innovate new climate pollution reduction initiatives for the benefit of nearly 5 million residents.
City of Glendale

*Additional Letters of Commitment and Support are included as other attachments.

¹⁷ Alternative Fuels Data Center. Electric Vehicle Registrations by State. <https://afdc.energy.gov/data/10962>

¹⁸ EPA. Heat Islands. Heat Islands and Equity. <https://www.epa.gov/heatislands/heat-islands-and-equity>



2. Impact of GHG Reduction Measures

In 2020, the Maricopa-Pinal County region generated approximately 53,392,143 metric tons of CO₂ equivalent (MTCO₂e).¹⁹ The Maricopa-Pinal County region is uniquely prepared to address climate pollution given the historic investments that have been made by county, municipal, and Native nation agencies within the region for climate action planning. By prioritizing these measures, the CPRG application identifies opportunities totaling 71,064 metric tons of GHG emissions reductions by 2030 and the potential for hundreds of millions of dollars of investment in communities across the region.

The American Lung Association's *State of the Air 2022* report ranked the Phoenix metropolitan area as the fifth most polluted in the nation for ozone and the eighth most polluted for annual exposure to particle pollution. In addition to reducing GHG emissions, the proposed measures are anticipated to increase regional resiliency (in terms of urban heat island mitigation), reduce energy demand, and reduce health impacts—specifically heat-related illnesses and respiratory diseases related to criteria air pollutants (CAPs) and hazardous air pollutants (HAPs). The reduction in CAPs for the proposed measures has been calculated as part of this application, with reductions by 2030 shown in Table 2.

The methodologies and assumptions supporting the quantification of the GHG reductions of these measures and associated projects is described in the *Technical Appendix* (Techappx_CityofPhoenix.pdf), and calculations are included in the GHG emission reduction calculations spreadsheet (GHGcalcs_CityofPhoenix.xlsx).

a. Magnitude of GHG Reductions from 2025 through 2030

The CPRG application identifies opportunities totaling 71,064 metric tons of GHG emissions reductions by 2030. Some of the measures will have an immediate impact on reducing GHGs, given the ability to effect change in the first year of the program (refer to outputs quantified by measure and year in Section 3), while others will take several years to begin accruing benefits because of the need to design, construct, and implement the improvement. Table 2 provides the quantification for the period of 2025–2030.

b. Magnitude of GHG Reductions from 2025 through 2050







For the period of 2025–2050, over 337,410 MTCO₂e will be eliminated, demonstrating the magnitude of GHG reductions that may be realized through the implementation of the measures included in the CPRG application. Table 2 quantifies the GHG emissions reductions for the period of 2025–2050.

Not captured in this quantification of GHG emissions reductions are the durability of measures beyond 2050 (e.g., such as how new battery equipment purchases can extend expected life of equipment; EVSE will be available for EV fleet vehicles purchased as part of ongoing conversion plans; permanent changes to food waste processing), and the change in approach to electric equipment that will pave the way for greater conversion in the future. Also not captured in this table is the expanded capacity of government agencies and the private sector to build on the workforce development and expanded awareness and education surrounding GHG reduction and pollution prevention that a CPRG award will offer the region.

¹⁹ MAG. Maricopa-Pinal County Region Priority Climate Action Plan, February 2024.



Table 2: Magnitude of GHG reductions

Measures and Associated Projects		Magnitude of GHG Reductions (MTCO ₂ e)		Durability of GHG Reductions	VOC	NO _x	SO _x	CO	PM ₁₀	PM _{2.5}
		2025–2030	2025–2050	Years	Metric tons					
	1. Microgrid on Municipal Buildings	2,596	17,144	21 ^b	0.1	1.9	0.9	-	-	0.4
	2. Maricopa County Fleet Electrification	2,716	11,999	15	6.6	2.2	-0.9 ^c	87.9	0.8	-0.2
	3. City of Mesa Fleet Electrification	5,923	22,807	15	5.4	3.2	-0.7	76.4	0.7	-0.1
	4. City of Tempe Fleet Electrification	114	335	15	0.1	0.1	<0.1	1.5	<0.1	<0.1
	5. City of Tempe Zero Emission Buses	3,088	10,573	13	0.2	5.6	-0.2	4.1	<0.1	-0.1
	6. City of Phoenix Fleet Electrification	7,937	30,334	15	6.1	2.7	-0.9	84.2	0.8	-0.2
	7. City of Phoenix Heavy-duty EV Fleet Testing	4,571	16,642	15	-	1.9	-0.2	2.3	0.2	-0.1
	8. City of Phoenix Zero Emission Buses	17,394	93,077	25 ^d	2.1	76.7	-2.7	56.2	0.2	-1.1
	9. Arizona Office of Resiliency Fleet Electrification	3,698	13,914	15	4.2	1.8	-0.3	55.2	0.5	<0.1
	10. Commercial Lawn Mower Electrification Program	6,612	23,626	15	114	9.2	-0.2	4,663	0.9	-0.1
	11. Low Income HVAC Replacement Program	2,524	9,653	25	0.1	1.8	0.9	-	-	0.3
	12. Residential Energy Efficiency	3,104	12,021	25	0.1	2.2	1.0	-	-	0.4
	13. Regional Fireplace Electrification Program	1,211	7,695	25	<0.1	-0.1	-0.1	-	-	14.0
	14. City of Mesa Food Waste to Energy - Pre-processing Facility & Water Reclamation Plant Upgrades	3,904	33,562	22	-	-	-	-	-	-
	15. City of Phoenix Circular Food Economy	5,672	34,029	25	-	-	-	-	-	-
Totals		71,064	337,411	-	138.9	109.2	-3.3	5031	4.3	13.3

Notes: a. Estimated CAP reductions for 2025–2050 are included in the GHG Calculation Spreadsheet.

b. The life of microgrid components extends beyond the related measure's GHG reductions reporting period.

c. Negative values for the CAP emissions are a net generation of emissions. Positive values are the reductions.

d. Project 8's zero emission buses have a 13-year equipment life, however, equipment purchases will double the expected life, resulting in 25-year durability extending through the related measure's GHG reductions reporting period.



c. Cost Effectiveness of GHG Reductions

The cost effectiveness of GHG reductions included in the CPRG application from 2025–2030 is reported in the callout below.

Cost effectiveness of GHG reductions =

(Requested CPRG funding) / (Sum of quantified GHG reductions from CPRG funding from 2025–2030)

\$453,388,273 / 71,064 MTCO₂e = \$6,380/MTCO₂e

This cost effectiveness value reflects the immediate and short-term GHG reduction benefits calculated for all projects, which is affected by a number of projects whose GHG reduction benefits only begin to accrue at the end of this 5-year period, on account of the lead time of the project procurement or construction. However, those GHG reduction benefits are significant, as reflected in Table 2, which reports the magnitude of GHG reductions through 2050.

Individual projects' cost effectiveness varies, depending on a number of factors. An important consideration for the Coalition members and partners is the leveraging change that the CPRG provides, by allowing the region to build the workforce development and institutional capacity to support, encourage, and implement continued measures to reduce GHGs and pollution.

d. Documentation of GHG Reduction Assumptions

The technical appendix discusses the methodology and assumptions used by the Coalition in determining the GHG reductions reported in the CPRG application (the optional GHG emission reduction calculations spreadsheet is also included in support of this application). As part of our reporting, we also quantify the CAPs as part of our proposed measures and projects.

3. Environmental Results – Outputs, Outcomes, and Performance Measures

a. Expected Outputs and Outcomes

The following section shows the outputs for each of the measures and related projects and eligible applicant subrecipients where known. Expected outputs and outcomes for each project are summarized for the five-year grant reporting period. Taken together, these elements describe the outputs and outcomes anticipated with the program.

Additional outputs and outcomes are referenced throughout this document:

1. GHG and CAP/HAP reductions in Section 2, Table 2
2. Low-income and disadvantaged community outcomes in Section 4
3. Workforce development outcomes in Section 5

1. Microgrids

Project 1: Microgrids on Municipal Buildings

- 3 microgrids brought online in Tempe
- 10 microgrids with Coalition members and partners
- 6,379,797 kilowatt hours (kWh) of clean electricity generated (by 2030)
- 1 staff member hired for project implementation

2: Fleet Electrification and Charging Infrastructure Development

Project 2: Maricopa County Fleet Electrification

- 377 EVs
- 377 Level 2 (L2) charging stations
- 2 staff members hired for project administration and implementation

Project 3: City of Mesa Fleet Electrification

- 375 EVs
- 550 L2 and 25 direct current fast charging (DCFC) charging stations
- 3 staff members hired for project implementation



Project 4: City of Tempe Fleet Electrification

- 5 EVs

Project 5: City of Tempe Zero Emission Buses

- 10 BEBs
- 10 depot and 3 overhead and/or inductive fast chargers
- 1 staff member hired for project implementation

Project 6: City of Phoenix Fleet Electrification

- 240 EVs in Phoenix
- 300 EVs with Coalition members and partners
- 203 L2, 40 DCFC, and 8 solar EV charging stations
- 150 L2 charging stations with Coalition members and partners
- 4 staff members hired for project administration and implementation

Project 7: City of Phoenix Heavy-duty Vehicle Fleet Testing

- 12 heavy-duty EVs
- 2 staff members hired for project implementation

Project 8: City of Phoenix Zero Emission Buses

- 20 BEBs
- 20 FCEBs

Project 9: Arizona Office of Resiliency Fleet Electrification

- 280 EVs
- 140 L2 and 8 DCFC charging stations
- 1 staff member hired for project implementation

3: Commercial Lawn Mower Electrification**Project 10: Lawn Mower Electrification (Maricopa County)**

- 250 riding and stand-on lawn mower vouchers distributed
- 1 staff member hired for project implementation

4: Residential Energy Efficiency**Project 11: Low Income HVAC Replacement Program**

- 1,250 HVAC units installed
- 3 staff members hired for project implementation

Project 12: Residential Energy Efficiency

- 800 home energy efficiency repairs
- 9 staff members hired for project administration and implementation

5: Fireplace Electrification**Project 13: Regional Fireplace Electrification Program**

- 1,500 fireplaces replaced with electric equipment

6: Food Waste Conversion**Project 14: City of Mesa Food Waste to Energy – Pre-processing Facility and Water Reclamation Plant Upgrades**

- 20,800 tons of food waste diverted from landfills
- 653,240 therms of biogas generated
- 2.6 million gallons of fats, oils, and grease processed
- 4 staff members hired for project implementation

Project 15: City of Phoenix Circular Food Economy

- 21,900 tons of food waste diverted from landfills
- 1 staff member hired for project implementation

7: Administration, Community Engagement, and Workforce Development**Administration**

- 4 staff members hired for GHG measure implementation

Community Engagement

- 2 staff members hired to lead meaningful community engagement efforts






Workforce Development

- 210 trainees enrolled through MCCs' programs

Figure 3 (next page) details the timeline to procure, construct, and implement the proposed projects, scaled to show key milestones at the measure level.



Figure 3: Measures and projects' timeline and summary of outputs for performance

Measure 1: Microgrids					
	Outputs:	12 energy audits	13 energy retrofits		13 buildings equipped with solar & battery
	Implementation:	YEAR 1	YEAR 2	YEAR 3	YEAR 4
					YEAR 5
Measure 2: Fleet Electrification and Charging Infrastructure Development					
	Outputs:				
	• EVs	338	329	332	329
	• Zero emission buses	20	20	10	
	• L2 chargers	453	258	250	217
	• DC fast chargers	27	17	17	5
	• On-route/depot chargers		13		
	Implementation:	YEAR 1	YEAR 2	YEAR 3	YEAR 4
		YEAR 1	YEAR 2	YEAR 3	YEAR 4
					YEAR 5
Measure 3: Commercial Lawn Mower Electrification					
	Outputs:				
	• Electric mowers	50	50	50	50
	Implementation:	YEAR 1	YEAR 2	YEAR 3	YEAR 4
		YEAR 1	YEAR 2	YEAR 3	YEAR 4
					YEAR 5
Measure 4: Residential Energy Efficiency					
	Outputs:				
	• Upgraded HVAC units	250	250	250	250
	• Homes rehabilitated	160	160	160	160
	Implementation:	YEAR 1	YEAR 2	YEAR 3	YEAR 4
		YEAR 1	YEAR 2	YEAR 3	YEAR 4
					YEAR 5
Measure 5: Fireplace Electrification					
	Outputs:				
	• Electric fireplaces	300	300	300	300
	Implementation:	YEAR 1	YEAR 2	YEAR 3	YEAR 4
		YEAR 1	YEAR 2	YEAR 3	YEAR 4
					YEAR 5
Measure 6: Food Waste Conversion					
	Outputs:				
	• Tons of food waste diverted from landfills	3,650	3,650	3,650	14,050
	Project 14 Implementation:	YEAR 1	YEAR 2	YEAR 3	YEAR 4
					YEAR 5
	Project 15 Implementation:	YEAR 1	YEAR 2	YEAR 3	YEAR 4
			YEAR 2	YEAR 3	YEAR 4
					YEAR 5

Sectors:

Electric Power

Transportation

Commercial and
Residential BuildingsWaste, Wastewater,
and Sustainable
Materials Management**Legend:**

Procure/Construct

Benefits Accrue



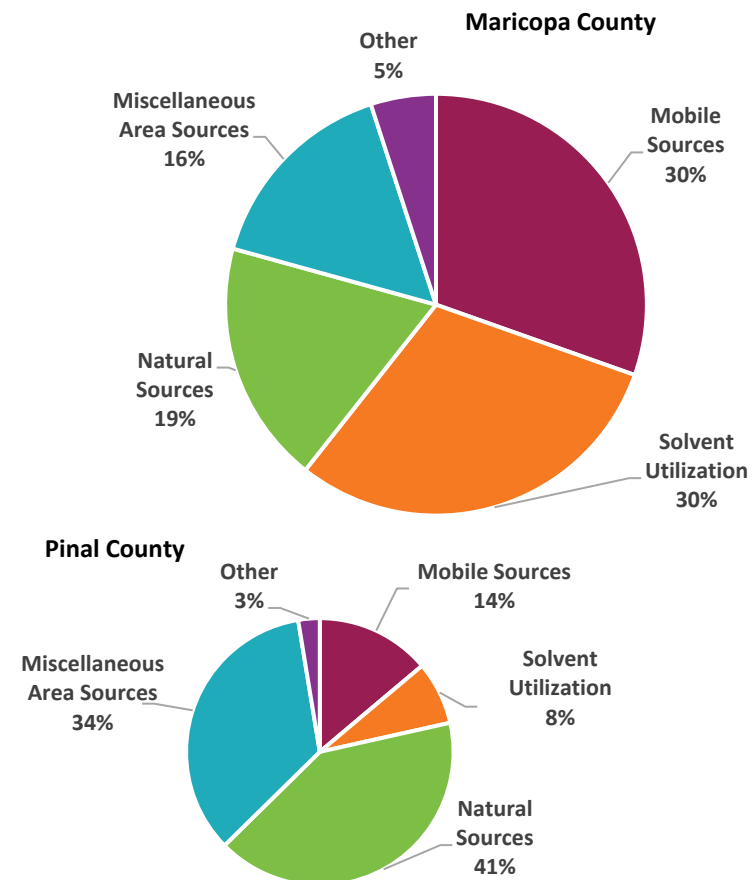
Criteria Air Pollutants and Hazardous Air Pollutants

CAPs were quantified for the measures and projects included in the CPRG application. The measures and projects resulted in a reduction of 135.3 metric tons of VOCs, 107.1 metric tons of NO_x, 4,980 metric tons of carbon monoxide (CO), 3.6 metric tons of particulate matter (PM₁₀), and 13.3 metric tons of PM_{2.5} for the period of 2025–2030. The measures and projects did result in an increase of SO_x of 2.9 metric tons for the same period as a result of increased electricity use to power these projects. The reductions by measure can be found in Table 2.

As estimated by the 2020 EPA National Emissions Inventory, a total of 20,000 tons of HAPs was produced in Maricopa County in 2020. Similarly, Pinal County reported a total of 6,219 tons of HAPs in 2020.²⁰ Figure 4 shows the breakdown of emission by source for both Maricopa County and Pinal County (with the graphs size relative to the overall emissions for each county).

As mobile source HAP emissions make up a significant portion of the total HAP emissions, the focus on fleet electrification across the projects would have an outsized impact on reducing HAP emissions compared to other projects. In addition to reducing GHG emissions, there would be co-benefits specific to reducing the exhaust and evaporative emissions from key mobile source air toxics that contribute to cancer risk and other adverse health risks. Upon implementation of the projects, immediate local health benefits to the surrounding community, environment, and ecology would be realized.

Figure 4: Mobile and nonpoint HAP sources in Maricopa County and Pinal County



Notes: The Other category includes Stationary Source Fuel Combustion; Industrial Processes; Waste Disposal, Treatment, and Recovery; and Storage and Transport. Source: U.S. EPA. 2020 National Emissions Inventory (NEI) Data.

²⁰ EPA. 2020 National Emissions Inventory (NEI) Data. <https://www.epa.gov/air-emissions-inventories/2020-national-emissions-inventory-nei-data>



b. Performance Measures and Plan

The Coalition members are committed to tracking progress in achieving the outputs and outcomes shown in Section 3(a) to demonstrate the substantial GHG reductions and pollution prevention that a CPRG grant award can deliver to the region.

Section 3(a) identifies the outputs that the City of Phoenix and Coalition members will use to report to EPA on a semi-annual basis throughout the grant program, addressing technical progress, accomplishments, and milestones achieved, including a description of outputs and outcomes, planned activities for the next 6 months, progress on Community Engagement and Workforce Development (discussed in Sections 4 and 5, respectively), and a summary of expenditures to date.

The City of Phoenix will develop a reporting program to describe the approach for tracking and measuring how the GHG reduction measures are achieving the expected outputs and outcomes established in Section 3(a) of the Workplan and explain how the results of each GHG reduction measure will be evaluated. Refer to the technical appendix for the basis of quantifying GHG emission reductions and associated CAP and HAP accomplished by each GHG measure.

The Carbon Disclosure Project has Phoenix on its A List, ranking the City as a global leader in environmental action, ambition, and transparency. Only 120 cities (globally) are on the 2023 list.

Carbon Disclosure Project
<https://data.cdp.net/>

This information will also be shared with the numerous stakeholders who were instrumental in the development of the PCAP and CPRG application and who maintain a vested interest in the program's outcomes. Building on the City of Phoenix's Environmental,

Social, and Governance (ESG) dashboard, Coalition members recommended that a similar dashboard be used to communicate

progress. This information will also be presented in a more publicly consumable format through a StoryMap, which can inform and engage the broader community in the region's progress toward pollution prevention and EPA's Strategic Plan goal of "tackling the Climate Crisis" by reducing emissions that cause climate change.

c. Authorities, Implementation Timeline, and Milestones

Review of Authority to Implement

In selecting the measures to advance with the CPRG application, Coalition members considered whether they have existing regulatory or statutory authority to implement the applicable priority GHG emissions reduction measures. Any eligible project partners wishing to participate in those measures where expansion to partners is possible (i.e., Microgrids and Fleet Electrification and Charging Infrastructure Development) will consult their local laws, rules, and ordinances to determine whether additional authority is necessary.

Table 1 identifies the CPRG measures and the Coalition members implementing the measures. In all instances, no additional authority is required by implementing agencies.

Section 3(a) and Figure 3 show the timeline for measure implementation and identify milestones for accomplishing the GHG reduction benefits of the proposed measures and projects.



4. Low-Income and Disadvantaged Communities

The Coalition unifies local, regional, and state agencies in Arizona to maximize the positive impacts of GHG reduction measures proposed through this application. An important consideration is the local and regional benefits and avoided disbenefits of these measures on low-income and disadvantaged communities (LIDACs) and the greater population. Outputs, outcomes, and performance measures discussed in Section 3 will also be evaluated for their impact on LIDACs (including CAP/HAP emissions reductions).

The U.S. Council on Environmental Quality's Climate and Economic Justice Screening Tool (CEJST) was used to identify LIDACs in the MAG region that may be affected by the suite of GHG reduction measures proposed by the Coalition (Table 3).

Table 3: CEJST-designated LIDAC census tracts

Region	LIDAC Tracts	Total Census Tracts	% of Total Census Tracts	LIDAC	Total (2019 ACS 5-year)	% of Total Population
				Population		
MAG	272	964	28%	1,262,588	4,628,387	27%
Maricopa County	258	916	28%	1,178,883	4,328,810	27%
Pinal County	14	48	29%	83,705	299,577	28%
Phoenix	156	386	40%	724,572	1,633,017	44%
Mesa	36	142	25%	161,564	499,720	32%
Tempe	6	54	11%	27,973	187,454	15%

Note: A comprehensive list of CEJST census tracts for each area affected by GHG reduction measures is found in separate attachment [Areas_CityofPhoenix.xlsx].

²¹ NASA DEVELOP. Establishing Heat Priority Scores for Tempe, Arizona. <https://storymaps.arcgis.com/stories/b938ca721ec64036a4760d20763e1141>

a. Community Benefits

1: Microgrids

Microgrids are Resilience Hubs, community service facilities upgraded with solar and battery to support residents and coordinate resource distribution and emergency services. All three microgrid sites are located within 1.5 miles of at least one CEJST disadvantaged census tract. Within 1.5 miles of the Escalante Community Center, there are 10 disadvantaged tracts, or 51,201 people who may benefit from the improvements. All sites are along Tempe's free Orbit Shuttle transit routes. This increases access to hub programming and emergency services for transportation disadvantaged residents.

Benefits and Avoided Disbenefits

Climate Adaptation and Energy Resilience: Tempe's three proposed microgrid sites (which will serve as models for others in the region) are City-owned facilities located in heat priority areas—census tracts where urban heat islands and other climate-related conditions result in high heat exposure, and with concentrations of socially vulnerable populations.²¹ Sites will serve as heat relief spaces for community members and provide refuge to prevent heat-related illnesses and deaths among vulnerable populations, particularly five of the housing disadvantaged tracts within 1.5 miles of the Escalante Community Center. There were 24 heat-related deaths in Tempe in 2023, with

The MAG region suffers from the extreme weather impacts of climate change, with 31 consecutive days of temperatures over 110 degrees Fahrenheit and a total of 55 days of temperatures over 110 degrees in 2023.

National Weather Service Phoenix, 2023

Maricopa County seeing a 52% increase in such deaths compared to 2022 totals.²²

Energy efficiency upgrades and microgrids will enhance local emergency response

²² Maricopa County Department of Public Health. 2023 Heat Related Deaths Report. <https://www.maricopa.gov/ArchiveCenter/ViewFile/Item/5796>



management capability during grid disruptions and excessive heat events.

This measure was developed to allow Coalition members and partners to expand the microgrid concept to as many as 10 additional locations across the Maricopa-Pinal County region, establishing a network of centers that will serve needy populations near their homes.

- CEJST Categories with Direct Benefits in Tempe: Climate Change (1 tract), Transportation (3), Health (1)

Plan to Assess, Quantify, Report

- Report progress at monthly Tempe Resilience Hub Network meetings with local stakeholders.
- Track and report progress on Tempe's public-facing Resilience Hub Network website.
- Track functionality of hubs during grid disruption and excessive heat events. Track use of the project sites (e.g., number of residents provided with heat relief resources, qualitative feedback on hub operations during emergencies).

2: Fleet Electrification and Charging Infrastructure Development

Air pollutants settle and concentrate within the MAG region's low-elevation boundaries, exacerbated by high temperatures, sun exposure, and heavy roadway traffic. The region experiences higher than average rates of asthma and other respiratory disease when compared to the national average, with LIDAC communities often bearing a disproportionate burden of negative health impacts. Areas near the region's major roadways experience some of the most severe levels of respiratory health indices.²³ Fleet electrification aims to reduce contributing air pollutants from mobile sources.

²³ Maricopa Association of Governments. Regional Electrification Readiness Strategic Plan. <https://azmag.gov/Programs/Transportation/Regional-and-Subregional-Studies/Electrification-Readiness>

Benefits and Avoided Disbenefits

Improved Air Quality and Public Health: Fleet vehicles operate in LIDAC neighborhoods throughout the region, and emissions from these vehicles are concentrated at fleet service centers and along routes. Electrifying these vehicles results in reduced tailpipe emissions and ground-level ozone precursors in the 48 LIDAC tracts (17% of the population) that are equal to or greater than the 90th percentile for asthma, are low-income, and have a lower percentage of higher

Mesa's Fleet Electrification project will build charging infrastructure in predominantly LIDAC tracts, and EVs serving the community travel through all of Mesa's 142 Justice40 disadvantaged tracts, 17 of which are health disadvantaged.

education populations. This reduces disproportionate pollution burden and limits LIDAC residents' exposure to harmful transportation-related emissions along vehicle routes and at stops (when vehicles are idling).

Workforce Trainings: The Coalition is partnering with MCC to fund EV and Alternative Energy Technician programs at local community colleges throughout the region.

- CEJST Categories with Direct Benefits in the Region: Transportation (137 tracts), Health (100)

Plan to Assess, Quantify, Report

- Track ridership on routes where transit vehicles are deployed.
- Monitor mileage, emissions trends, and any community feedback on deployed vehicles.

3: Commercial Lawn Mower Electrification

This commercial lawn mower electrification program will expand Maricopa County's current residential lawn and garden electrification program by incentivizing purchases of electric stand-on and riding lawn



mowers, speeding up a process that has been occurring slowly on account of higher procurement costs.

Benefits and Avoided Disbenefits

Co-Pollutant Reduction and Improved Air Quality: Gasoline-powered lawn mowers contribute to ground-level ozone precursor emissions and other harmful co-pollutants. Incentivizing the use of these mowers countywide will reduce co-pollutant exposure for LIDAC residents. The transition to electric equipment reduces user exposure to ground-level ozone precursors, carcinogens, and other harmful co-pollutants.

- CEJST Categories with Direct Benefits in the Region: Transportation (129 tracts), Health (93)

Plan to Assess, Quantify, Report

- Track number of vouchers distributed and types of mowers obtained.

Operating a commercial lawn mower for 1 hour emits as much smog-forming pollution as driving a new light-duty passenger car about 300 miles.

California Air Resources Board, Small Off-road Engines Fact Sheet

4: Residential Energy Efficiency

This measure supports the expansion of regional energy efficiency repair programs, which provide targeted funding for home energy efficiency improvements (such as HVAC replacements) for low- to moderate-income residents.

Benefits and Avoided Disbenefits

Improved Public Health: The threat of extreme heat disproportionately affects communities of color, lower-income households, older adults, young children, those in poor health, and outdoor workers.²⁴ In Maricopa County in 2023, 156 heat deaths occurred indoors, and approximately 94% of those were the result of having broken air

conditioning units, or the lack of such units.²⁵ Energy efficiency repairs will reduce the chance of heat-related illnesses or deaths in LIDAC neighborhoods.

Reduced Energy Cost and Improved Housing Quality: Energy efficiency improvements will result in lower energy bills for LIDAC residents served and lower home maintenance costs. The proposed energy efficiency projects will help the 452,373 Maricopa County residents living in 105 housing disadvantaged tracts pay for home improvements that they may otherwise be unable to afford; extending the life of the home and maintaining the stock of housing available to low- and moderate-income households. These upgrades complement rehabilitation and affordable housing stock preservation efforts occurring regionally.

Climate Adaptation and Regional Resilience: Providing energy efficiency improvements to residences in LIDAC neighborhoods increases regional resilience to excessive heat events and other climate change-induced extreme weather events. This also reduces the strain on local emergency management services during such events.

Workforce Trainings: This measure will fund MCC workforce training programs to increase the availability of skilled HVAC technicians and increase opportunities for quality jobs both for existing and future LIDAC residents employed in the field.

There were 645 confirmed heat-associated deaths in Maricopa County during the 2023 heat surveillance season (May to October), an increase of over 50% from 2022 and a new record for the county.

Maricopa County Dept. of Public Health, 2023 Heat Related Deaths Report

²⁴ Administration for Children and Families. LIHEAP and Extreme Heat. <https://www.acf.hhs.gov/blog/2022/04/liheap-and-extreme-heat#>

²⁵ Maricopa County. 2023 Heat Related Deaths Report. <https://www.maricopa.gov/ArchiveCenter/ViewFile/Item/5796>



- CEJST Categories with Direct Benefits in the Region: Energy (31 tracts), Housing (105), Health (93), Workforce Development (151)

Plan to Assess, Quantify, Report

- Track number of homes retrofitted and number of HVAC units replaced (including unit size and energy efficiency ratings).
- Analyze trends in heat-related illnesses or deaths.

5: Fireplace Electrification

This measure funds the replacement of wood-burning fireplaces with electric fireplaces.

Benefits and Avoided Disbenefits

Co-Pollutant Reduction, Improved Air Quality and Public Health: The MAG region's unique geography and climate causes particulate pollution (such as PM_{2.5}) to concentrate in areas of lower elevation. Residents in the MAG region experience exacerbated respiratory health effects related to PM_{2.5} emissions. Many areas where emissions from wood-burning accumulate are CEJST-designated disadvantaged census tracts. This measure is a new program that will complement an existing County program that began in 2018. The current program is limited to areas with the highest PM_{2.5} concentrations. The new program will not have a geographical boundary and will further increase benefits to LIDAC residents.²⁶

- CEJST Categories with Direct Benefits in the Region: Health (100 tracts)

Plan to Assess, Quantify, Report

- Track number of fireplaces converted to electric units.

6: Food Waste Conversion

Diverting food waste from landfills and using it as inputs for sustainable processes (e.g., RNG and liquid fertilizer) avoids disbenefits associated with landfill emissions.

Benefits and Avoided Disbenefits

Improved Air Quality and Public Health, Community Resilience:

Phoenix's Circular Food Economy actively involves residents by providing composting services and fresh produce delivery. These measure outputs are particularly beneficial to the 157,244 people residing in the 39 LIDAC tracts located in "food deserts," with reduced access to fresh, healthy food choices within 1 mile of their homes. Providing produce delivery will decrease barriers to healthy foods for LIDAC residents in these areas.

Mesa's Food Waste to Energy Initiative supports the EPA's Renewable Fuel Standards by creating biogas.

Mesa's Food Waste to Energy initiative converts waste into RNG (used in the City's solid waste vehicles); switching to RNG will reduce the carbon intensity of fuel used for these vehicles, with the added benefit of a reliable, renewable energy source that decarbonizes the local energy portfolio. The RNG produced will diversify and ensure the resiliency of Mesa's natural gas utility system. Food waste conversion for both projects also diverts waste from landfills, reducing GHG and co-pollutant emissions.

- CEJST Categories with Direct Benefits in Phoenix and Mesa: Health (149), Transportation (27)

Plan to Assess, Quantify, Report

- Track number of residents using composting services.

²⁶ Ronald Pope, et al. The Relationship of High PM_{2.5} Days and Subsequent Asthma-related Hospital Encounters during the Fireplace Season in Phoenix, AZ.

<https://doi.org/10.1007/s11869-016-0431-2>



- Quantify tons of organic waste (including fats, oils, and grease) diverted from local landfills.
- Track amount of RNG created for use in vehicles.

b. Community Engagement

In developing the measures for the CPRG, the PCAP targeted outreach to LIDACs (e.g., open house locations in or near LIDACs, targeted doorhangers to LIDACs surrounding open house locations, in-person and virtual content for open houses, bi-lingual materials, translation services). The SCN and Coalition members participated in and tracked results from PCAP community engagement, creating a strong foundational understanding of regional needs and priorities in advance of the development of this application.

The Coalition will implement a comprehensive, multiyear engagement program in partnership with SCN. Since 2009, SCN has engaged with municipalities, tribes, agencies, and community-based organizations (CBOs) throughout the MAG region to educate, empower, and improve communities in ways that deeply align with the CRPG Program.

Throughout measure development and implementation, SCN will interview community leaders to inform and execute meaningful and representative outreach and to establish approaches to measure their success.

Leveraging Community Partnerships

SCN will leverage its existing workgroup's seven monthly meetings to educate, understand, and strategize ways in which it can effectively engage with LIDAC communities affected by the Coalition's measures. The existing, expansive workgroup structure shows the interconnection and overlap of sustainability efforts (water, energy, air quality, heat, etc.) and the solutions-multiplier effect of climate action and mitigation efforts. The Coalition received numerous Letters of Commitment and Support (included as additional attachments)

from local, regional, and state stakeholders acknowledging the transformative nature of the proposed suite of measures.

Publicizing Participation Opportunities

The Coalition will identify opportunities to host informational booths at public events (such as City-sponsored programming, community festivals, etc.) to engage with the community. These booths will share information about CPRG, report progress towards implementation, and/or provide sign-up opportunities for measures with resident participation components.

Targeted Outreach to LIDAC Communities

The Coalition will use CEJST (and other datasets) to target outreach in LIDAC communities for measures with public participation opportunities (e.g., Fireplace Electrification, Residential Energy Efficiency). In-person outreach will be context-specific, with accessible materials responsive to cultural, linguistic, and other community characteristics. The Coalition will partner with CBOs already embedded in LIDAC areas to amplify access to climate and programmatic information and opportunities.

Online Platform to Increase Public Awareness

The Coalition will create a public-facing StoryMap that describes the CPRG Program and associated measures. The StoryMap will provide progress reports on performance measures and inform the public of actual GHG reductions throughout the grant implementation period.

The Coalition will also provide opportunities for public feedback on CPRG implementation through online and in-person surveys at key milestones during the implementation process.

5. Job Quality

The Coalition coordinated with MCC to identify and create educational programs supporting the CPRG. These programs directly connect to the development of a highly skilled workforce for the implementation of the PCAP GHG emission reduction measures. This



is reflected in the various PCAP-supporting occupations that MCC’s proposed educational programs target.

MCC identified 13 educational programs supporting the proposed measures, with many supporting multiple measures. The programs are dispersed across six campuses (GateWay Community College, Mesa Community College, Estrella Mountain Community College, Chandler-Gilbert Community College, Scottsdale Community College, and Rio Salado College). Figure 5 presents MCC’s educational programs relating to the proposed measures. Programs that are included are either existing or will start by spring of 2025.

Figure 5: MCC’s Workforce Program Offerings

Alternative Energy Technician	Sustainable Food Systems
BPI Building Analyst Certification	LEED Green Associate
BPI Healthy Home Evaluator	RESNET Home Energy Rater
BPI Multifamily QC Inspector	Solar Technician CCL
Electric Vehicle CCT	Sustainable Agriculture CCL
Home Energy Professional Energy Auditor	HVAC Residential Installation and Service Technician
Facility Management Professional	

Notes: BPI – Building Performance Institute, CCL – Certificate of Completion, CCT – Certificate of Competency

a. Educational Programs and Linkage to Supporting Occupations

There are 28 Standard Occupational Classifications²⁷ associated with the educational programs supporting the measures; 90% of these occupations are classified as part of the “green economy” (i.e., generate economic development and job creation while reducing

carbon emissions and pollution). As stated by the U.S. Department of Labor, these green economy activities and technologies are robust enough to create the demand for unique work and worker occupational requirements. As a result, the majority of these occupations have “bright outlooks” (expected to grow rapidly).²⁸

A major factor in the grant proposal is the commitment to paying at least the median area income for all workers. The annual median wage for the Phoenix-Mesa-Scottsdale MSA is \$46,290.²⁹ Of the 28 occupations supporting the PCAP program measures, 26 have wages above the MSA’s annual median wage.

MCC focuses its training efforts on minority and low-income populations. Serving over 99,000 learners, over 60% were minority and 57% were female. A CPRG award will cover tuition and material expenses for these programs and be promoted as part of the program’s community engagement activities, focused on engaging MCC’s traditional cohorts of low-income and minority populations in the Maricopa County region.³⁰

The initial year of workforce development training is anticipated to focus on training for municipal employees. As promotion of the programs and opportunities ramps up, it is anticipated that MCC’s programs will engage as many as 420 people per year.

b. Budget Justification

MCC’s budget consists of costs for tuition and fees for workforce development training in applicable programs that have been pre-approved to be part of the project. Participant costs are included for 50% of total program capacity. A 4% annual escalation is built into Years 2–5. The cost of these programs has been dispersed across the applicable projects to truly reflect the GHG reductions’ effectiveness

²⁷ U.S. Bureau of Labor Statistics. Standard Occupational Classification website. <https://www.bls.gov/soc/>

²⁸ U.S. Bureau of Labor Statistics. Office of Occupational Statistics and Employment Projections.

²⁹ U.S. Bureau of Labor Statistics. May 2022 Occupational Employment and Wage Estimates.

³⁰ Maricopa County Community College District. Institutional Data 2023-2024 Fast Facts webpage. <https://www.maricopa.edu/about/institutional-data/fast-facts>



measure when considering the workforce development support to ensure access to the developing green economy that a CPRG award would bring to the region.

The significance of this workforce development approach is that the programs are linked to the CPRG, but the opportunities and capacity for participants to participate in the green economy are not. The entire Maricopa-Pinal County region stands to benefit from the strengthened workforce trained in these skills.

6. Programmatic Capability and Past Performance

As lead applicant, the City of Phoenix will be accountable to EPA and accepts full responsibility for effectively carrying out the full scope of work and for ensuring the proper financial management of the grant. Letters of Intent from Coalition members demonstrate the commitment of these entities to support Phoenix in that effort.

The City of Phoenix is experienced with successfully delivering these types of projects, as evidenced by the City's past performance

administering and delivering federal aid funding and discretionary grants.

The City of Phoenix and Coalition members are focused on ensuring 100 percent compliance with all grant requirements. To ensure this, Phoenix, as lead applicant, has identified four full-time equivalent (FTE) staffing additions (a full-time economic development program manager, project management and project administrative assistants, and a special projects administrator). Phoenix is confident that these positions, in addition to the dedicated staff identified in the project budgets (and summarized by project as outputs in Section 3) will effectively administer the grant projects, enabling the region to achieve the identified project outcomes of reduced GHGs and pollution.

a. Past Performance

The Notice of Funding Opportunity (NOFO) requests proof of programmatic capability and past performance on federally funded or non-federally funded assistance agreements. Figure 6 provides two examples of the City of Phoenix's programmatic capability and past performance on two such federally funded projects.

Figure 6: Past Assistance Agreement Performance

Grant Information	American Rescue Plan Act – Phoenix Resilient Food Systems	Brownfields Assessment Grant for Brownfields to Healthfields
Assistance agreement no. Agency assistance listing no.	n/a 21.027	99T35701-1 66.818
Description	This program addressed food insecurity focusing on low-income communities.	This grant focused on community health with food and healthcare assets in underserved areas.
Contact from funding agency	SLFRF@treasury.gov (no direct contact at Treasury)	Jose Garcia, 213-244-1811, Garcia.jose@epa.gov
Successful completion and management of agreements	The activities are on track to be completed within the grant period and within budget.	The approved activities were completed within the grant period (2015–2019) and within budget.
Interim and/or final reports submitted	Quarterly performance and expenditure reports, as well as annual recovery plan performance reports, are submitted on time according to the issued guidelines.	Quarterly reports were submitted on time. Challenges and delays were documented, and lessons learned were included in the final report.
Adequate and timely reporting on outcomes and outputs	Key performance indicators were reported in quarterly performance and expenditure reports, and the annual recovery plan performance reports.	



b. Reporting Requirements

Responses to the NOFO-specific questions related to funding are also included in Figure 6. Each of the Coalition members have also successfully administered federal grants.

c. Staff Expertise

The City of Phoenix was selected by Coalition members to lead the CPRG program for the Maricopa-Pinal County region because of its size, experience, and capacity. Phoenix has a 2023–2024 budget of over \$2 billion and has over 14,000 full- and part-time employees. In 2015, Phoenix voters supported an ambitious General Plan vision to become the most sustainable desert city on the planet.

This vision was supported with the hiring of Mark Hartman, Chief Sustainability Officer, in 2014. In 2016, The Phoenix City Council adopted the 2050 Sustainability Goals that set long-term outcomes necessary to fulfill this vision. In 2019, Matthew Potzler, Environmental Air Quality and Climate Specialist, joined the City of Phoenix and was instrumental in creating Phoenix’s first community-wide Climate Action Plan. In 2020, the City joined the C40 Cities Climate Leadership Group, a network of the world’s major cities committed to addressing climate change.

Supported by the City of Phoenix’s Office of Environmental Programs and the Office of Sustainability, the City is coordinating the update for the 2021 Climate Action Plan, and has consistently raised goals for GHG reductions and focused on making Phoenix the most sustainable desert city in the world.

Further supporting the City of Phoenix, Coalition members bring additional knowledge, expertise, and qualifications (as demonstrated in the résumés included as a separate attachment with this application). The Coalition member teams have over 324 years of experience with their respective jurisdictions,

demonstrating commitment to the region, and a learned understanding of working within their jurisdictions to leverage the resources necessary to successfully deliver the *Resilient Maricopa-Pinal County Region Priority Climate Implementation Plan*.

The team’s organizational structure is shown in Figure 7.

Budget

For detailed information on the CPRG budget, refer to the Budget Narrative (included as a separate attachment to this application) and the Optional Budget Calculations Spreadsheet (separate attachment). Table 4 summarizes the budget.

Table 4: Consolidated budget

BUDGET CATEGORIES	FUNDING REQUESTED (FOR 5-YEAR PERIOD)
Total Personnel	\$14,996,282
Total Fringe Benefits	\$6,995,708
Total Travel	\$199,110
Total Equipment	\$221,765,290
Total Supplies	\$11,853,815
Total Contractual	\$116,642,139
Total Other	\$74,962,241
Total Direct	\$447,414,584
Total Indirect	\$5,973,689
Total Funding	\$453,388,273



Figure 7: CPRG Organizational Chart







Coalition Member	Staff Member and Role	Expertise	     
City of Phoenix (Lead)	Nancy Allen, <i>Co-Lead, Administration</i>	Environmental Programs Administrator with City since 2018; manages teams and technical environmental programs	
	Kimberly Dickerson, <i>Energy Efficiency</i>	Deputy Neighborhood Services Director with City since 2007; leads team engaged in neighborhood revitalization efforts	
	Jesus Sapien, <i>Public Transit EV</i>	Public Transit Director with City since 2004; oversees operation of one-half of region's transit fleet and its annual budget	
	Melissa Sweinhagen, <i>Public Fleet EV</i>	Assistant Director of Public Works with City since 1999; responsible for City fleet and administrative services divisions	
	Chris Ewell, <i>Microgrids for Phoenix</i>	Assistant Director of Facilities Management with City since 2000; facilities construction, asset management, and systems	
	Mark Hartman, <i>Microgrids for Region</i>	Chief Sustainability Officer with City since 2014; responsible for effectively designing and implementing programs and grants	
	Rosanne Albright, <i>Co-Lead, Food Waste</i>	Environmental Programs Coordinator with City since 1998; manages air quality, brownfields, and food systems programs	
	Matthew Potzler, Ph.D., <i>Technical Lead</i>	Environmental Quality Specialist with City since 2019; primary author of 2021 Climate Action Plan and visionary data scientist	
State of Arizona	Gabriel Sanchez, <i>CPRG Lead</i>	Energy Grants Program Manager with State since 2023; proficient in GHG inventories and programs and reporting	
	Julie Cruz, <i>Transportation Lead</i>	Transportation Policy Advisor; with State since 2023; provides strategic guidance to implement the Governor's priorities	
	Rosa Ellis, <i>Grant Administrator</i>	Compliance Administrator with State since 2013; responsible for monitoring and reporting on grant-funded projects	
Maricopa County	Philip McNeely, <i>County CPRG Lead</i>	Director of Air Quality Department with County since 2014; oversees air quality grants, programs, and services	
	David Bruce, <i>Financial Manager</i>	Finance Manager with County since 2007; financial and regulatory grant administrator for air quality-focused grants	
	Milly Chandler, <i>Lawnmower/Fireplace Elec.</i>	Senior Planner with County since 2017; handles GHG inventories, grants, environmental education, and program execution	
	Shawn Pierce, <i>HVAC</i>	Deputy Director of Human Services with County since 2020; has managed programs and services including HVAC replacement	
	Chris McAbee, <i>Charging Infrastructure</i>	Sustainability Manager with County since 2006; oversees County's facilities management programs and services	
	Mark Sniff, <i>Vehicle Electrification</i>	Administrator, Equipment Services Department with County since 2018; fleet manager overseeing \$23 million annual budget	
City of Mesa	Scott Bouchie, <i>Transport., Waste/Solid Waste</i>	Energy and Sustainability Director with City since 1999; responsible for implementation of Mesa's Climate Action goals	
	Sheri Collins, <i>Waste/Solid Waste</i>	Solid Waste Director, with City since 2000, oversees Solid Waste management and diversion programs	
	Laura Hyneman, <i>Transportation</i>	Environmental and Sustainability Deputy Director with City since 2000; coordinates fleet electrification and climate projects	
	Mike Lewis, <i>EV Fleets, Charging</i>	Fleet Services Director, with City since 2009, manages all aspects of Mesa's diverse fleet	
	Sharon Skinner, <i>Grant Administrator</i>	Grants Coordinator with City since 2011; experience in grant funding, research, and development, including evaluation	
	Lauren Whittaker, <i>Waste/Solid Waste</i>	Sustainability Programs Supervisor with City since 2014; project manager and municipal sustainable solutions champion	
	Becky Zusy, <i>Grant Administrator</i>	Conservation Coordinator with City since 2000; manages grants across spectrum of federal programs, including EPA grants	
City of Tempe	Brianne Fisher, <i>Grant Administrator</i>	Climate Action Manager with City since 2018; experience supporting Climate Action Plan program and policy development	
	Eric Iwersen, <i>Transport. Co-Lead</i>	Transportation and Sustainability Director with City since 1996; responsible for transportation and sustainability budgets	
	Grace Kelly, <i>Microgrids</i>	Energy Manager with City since 1996; manages renewable energy projects and utility-scale solar agreements	
	Sam Stevenson, <i>Transport. Co-Lead</i>	Transit Manager with City since 2017; leads multimodal transit program, managing equity, demand, and cost considerations	





Exhibit G – Insurance Requirements

1. **COALITION MEMBER’S INSURANCE:**

Coalition Member (all capitalized terms shall be as defined in the Agreement) must procure insurance against claims that may arise from or relate to performance of the Approved Activities hereunder by Coalition Member and its agents, representatives, and employees. Coalition Member must maintain that insurance until all their obligations have been discharged, including any warranty periods under this Agreement.

The City in no way warrants that the limits stated in this Paragraph are sufficient to protect the Coalition Member from liabilities that might arise out of the performance of the Approved Activities under this Agreement by the Coalition Member, its agents, representatives, or employees and Coalition Member may purchase additional insurance as they determine necessary.

- 1.1. SCOPE AND LIMITS OF INSURANCE:** Coalition Member must provide coverage with limits of liability not less than those stated below. An excess liability policy or umbrella liability policy may be used to meet the liability limits provided that (1) the coverage is written on a “following form” basis, and (2) all terms under each line of coverage below are met.

1.1.1.1. Commercial General Liability – Occurrence Form

General Aggregate	\$2,000,000
Products – Completed Operations Aggregate	\$1,000,000
Personal and Advertising Injury	\$1,000,000
Each Occurrence	\$1,000,000

- The policy must name “the City of Phoenix, a municipal corporation” as an additional insured with respect to liability for bodily injury, property damage and personal and advertising injury with respect to premises, ongoing operations, products and completed operations and liability assumed under an insured contract arising out of the activities performed by, or on behalf of the Coalition Member related to the Agreement.
- There shall be no endorsement or modification which limits the scope of coverage or the policy limits available to the City as an additional insured.
- The City is an additional insured to the full limits of liability purchased by the Coalition Member.
- The Coalition Member’s insurance coverage must be primary and non-contributory with respect to any insurance or self-insurance carried by the City.

1.1.2. Automobile Liability

Bodily Injury and Property Damage coverage for any owned, hired, and non-owned vehicles used in the performance of the Agreement.

Combined Single Limit (CSL)	\$1,000,000
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- The policy must be endorsed to include the City as an additional insured with respect to liability arising out of the activities performed by, or on behalf of the Coalition Member, relating to the Agreement.
- The City is an additional insured to the full limits of liability purchased by the Coalition Member.
- The Coalition Member's insurance coverage must be primary and non-contributory with respect to any insurance or self-insurance carried by the City.

1.1.3. Worker's Compensation and Employers' Liability

Workers' Compensation	Statutory
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Employers' Liability:

Each Accident	\$100,000
Disease – Each Employee	\$100,000
Disease – Policy Limit	\$500,000

- Policy must contain a waiver of subrogation against the City.
- This requirement does not apply when Coalition Member is exempt under A.R.S. §23-902(E), **AND** when such Coalition Member executes the appropriate sole proprietor waiver form.

1.2. NOTICE OF CANCELLATION: For each insurance policy required by the insurance provisions of this Agreement, the Coalition Member must provide to the City, within five (5) business days of receipt, a notice if a policy is suspended, voided or cancelled for any reason.

1.3. ACCEPTABILITY OF INSURERS: Insurance is to be placed with insurers duly licensed or authorized to do business in the state of Arizona and with an "A.M. Best" rating of not less than B+ VI. The City in no way warrants that the required minimum insurer rating is sufficient to protect the Coalition Member from potential insurer insolvency.

1.4. VERIFICATION OF COVERAGE: Coalition Member must furnish the City with certificates of insurance (ACORD form or equivalent approved by the City) as required by the Agreement. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

All certificates and any required endorsements are to be received and approved by the City before work commences under the Agreement. Each insurance policy required by the Agreement must be in effect at or prior to commencement of work under the Agreement and remain in effect for the duration of the Approved Activities. Failure to maintain the insurance

policies as required by the Agreement or to provide evidence of renewal is a material breach of contract.

All certificates required by this Agreement must be sent directly to Nancy Allen, Environmental Programs Administrator, as provided for in Subparagraph 8.9 of the Agreement. The City project/contract number and project description must be noted on the certificate of insurance. The City reserves the right to review complete copies of all insurance policies required by the Agreement at any time. **DO NOT SEND CERTIFICATES OF INSURANCE TO THE CITY'S RISK MANAGEMENT DIVISION.**

1.5. SUBCONTRACTORS: Coalition Member's certificates shall include all subcontractors as additional insureds under its policies **OR** Coalition Member shall be responsible for ensuring and verifying that all subcontractors have valid and collectable insurance. At any time throughout the life of the contract, the City reserves the right to require proof from the Coalition Member that its subcontractors have insurance coverage. All subcontractors providing services included under the Approved Activities are subject to the insurance coverages identified above and must include the City as an additional insured. In certain circumstances, the Coalition Member may, on behalf of its subcontractors, waive a specific type of coverage or limit of liability where appropriate to the type of work being performed under the subcontract. Coalition Member assumes liability for all subcontractors with respect to the Agreement.

1.6. APPROVAL: Any modification or variation from the insurance coverages and conditions in the Agreement must be documented by an amendment to the Agreement, executed by both Parties.