Keweenaw Bay Indian Community

Climate Pollution Reduction Implementation Grants

Workplan General Competition

# Overall Project Summary and Approach

The Keweenaw Bay Indian’s Climate Pollution Reduction Implementation project is to pursue the below goals:

Goal 1: Reduce emissions through energy generation.

Goal 2: Reduce energy consumption by buildings (Commercial and residential).

Goal 3: Reduce emissions from vehicles.

Goal 4: Increase Carbon Sequestration.

All measures described in the Keweenaw Bay Indian Community’s Priority Climate Action Plan were chosen to pursue for the general competition to address reducing GHG emissions by ½ the levels of 2005. The current inventory completed by the Tribe and published at <https://www.epa.gov/system/files/documents/2024-03/kbic-pcap.pdf> shows the Keweenaw Bay Indian Community had GHG emissions of 16,279.39 MT CO2 equivalents for the base year of 2020. The Tribe proposed workplan proposes a reduction of 6,798 MT CO2 equivalents by 2030 or 41.76% by 2030. All measures were chosen to be included as they are interrelated and will benefit 100% a Justice 40 Community. The L’Anse Indian Reservation is located in Baraga County, MI, census tract. Electrification of buildings with heat pumps requires you to weatherize and produce renewable energy to not increase greenhouse gas emissions. Installation of highly efficient Energy Star appliances is necessary prior to installation of solar, along with weatherization. Utility formation and green building code adoption is concurrent activity with net-metering and micro-grid development to promote energy sovereignty. The Tribe wants to set a good example to its members by leading the way for EV adoption.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  | GHG reduction MT CO2 equivalents | | |
|  | Reduction Measure | Cost |  | **2030** | **2050** |
| 1 | Energy Sector-Install 2-300 kW Solar PV Microgrid- NRD Complex, Police/Pines | $10,030,247 |  | 2,187 | 43,740 |
| 2 | Energy Sector-Install 4kw w storage Residential homes | $13,165,600 |  | 1,879 | 37,580 |
| 3 | Building Sector-Weatherize Govt. Buildings | $804,300 |  | 230 | 4,605 |
| 4 | Building Sector-Weatherize Residential Buildings | $3,411,160 |  | 278 | 5,563 |
| 5 | Building Sector-Energy Star Appliances | $8,459,113 |  | 200 | 4,006 |
| 6 | Building Sector-Electrifying heat equipment | $2,040,000 |  | 139 | 2,780 |
| 7 | Building Sector-Utility formation & Code development | $1,973,701 |  | 323 | 6,468 |
| 8 | Building Sector-Electrifying heat equipment | $430,500 |  | 158 | 3,160 |
| 9 | Transportation Sector-Replace Fleet with 10 EV + 5 charging station | $1,240,831 |  | 1,343 | 26,864 |
| 10 | Forestry Sector Measures | $1,500,000 |  | 60 | 1,202 |
|  | Totals | $43,055,451 |  |  |  |
|  |  |  |  | 6,798 | 135,968 |

## Description of GHG Reduction Measures

## Measure 1-GHG emission reduction through the production of power through solar PV systems for three microgrids. Three locations were chosen on the L’Anse Indian Reservation located in Baraga County, MI construct microgrids for behind the meter net metering for avoidance of nearly 100% of 2020 ghg emissions due to electricity. An inventory was completed to sort out the highest electricity consumption of the Tribal governmental buildings. Buildings were grouped together for their proximity to one another. These are identified on pages 18-20 of the KBIC PCAP. A Solar Project Developer will be hired to handle all aspects of these three microgrid projects.

**Measure 2- Install 4 kW Solar PV at 700 homes.** Five employees will be hired and be under the supervision of the Solar Project Developer. They will receive any necessary training to remain up to date in their field. Employees will work on crews to install and connect 4 kW of Solar PV on Tribal member homes located in Baraga County.

**Measure 3-Increase building energy efficiency for commercial buildings.** The Public Works Assistant work with the Sustainability Coordinator to schedule trainings for a weatherization crew that consists of 3 employees with one office person. The Public Works Assistant will also prepare a bid document for the weatherization of 51 commercial buildings.

**Measure 4-Increase building energy efficiency for residential buildings.** The Sustainability Coordinator will help prepare with the assistance of the Personnel Director position descriptions for hiring four employees. Once employees are hired, they will spend time in training and start up tools and testing equipment will be purchased for the weatherization of 700 tribal member homes.

**Measure 5-Increase building energy efficiency for residential buildings by installing high energy appliances.** One employee to be hired under this measure to create program to distribute high efficient Energy Star appliances to Tribal members located in Baraga County.

**Measure 6-Increase building energy efficiency for residential buildings by electrifying heat equipment.**

Residential and commercial heating can be a large source of emissions. Many buildings are heated using combustion-based equipment and if the system is older, it can often be inefficient, leading to further energy consumption. Transitioning from combustible fuels for heating involves replacing existing equipment with all- electric systems, such as heat pumps. Heat pumps are significantly more efficient than other heating systems due to their ability to utilize existing heat, making them a valuable heating choice for higher efficiency and emissions reductions. Two employees will be hired within the first two months and will work on installing heatpumps in up to 100 Tribal member homes over the course of 5 years. Milestones include securing tools and supplies.

**Measure 7-Increase building energy efficiency by adopting Green Building Standards for major renovations; layout framework for Tribal Utility formation.**

Introduce New Building Standards

*Adopt Green Building Standards for Major Renovations*

Green building standards are a comprehensive way to upgrade building systems for greater energy efficiency. Implementing energy codes and minimum efficiency standards facilitates emissions reduction for existing buildings and new construction. Green buildings tend to have HVAC (heating, ventilation, and air conditioning) and MEP (mechanical, electrical, plumbing) systems that are more efficient, more insulation, better window constructions, and can be all-electric. An Energy Director’s position will be developed by the CEO and the Personnel director for oversight of weatherization, Energy Star appliances, Solar development, utility formation, and green building code adoption. This employee will provide leadership and oversight to all 17 employees to be hired and have administration of most of proposed GHG reduction measures.

**Measure 8-Increase building energy efficiency for commercial buildings by electrifying heat equipment.** Public Works Assistant Director will procure a contractor for the installation of up to 10 Heat pumps for commercial government buildings. The bidding process should include language for proposed HVAC employees to acquire on the job training.

**Measure 9-Transportation Sector Measures-Replace 10 current government vehicle fleet with electric vehicles and install charging stations.** An EV Planner will be hired during the first 2 months. This position will be developed through the Personnel office. The employee will be responsible for planning 5 charging stations over the course of 60 months and securing 10 EVs. The location of the charging stations will have to be carefully coordinated with the Solar Project Developer in order to maintain maximum GHG emission reductions by installing renewable energy sources to power the charging stations.

**Measure 10-Increase Carbon Sequestration through planting trees.** The Sustainability Coordinator will secure a contractor to plant 5000 trees at a height of 5-9 ft over the course of five years.

1. **Demonstration of Funding Need**

KBIC is approximately 69% grant funded with an annual budget of approximately $44 million in 2024. The proposed funding amounts far exceed the amount of funding that Tribal enterprises can produce. The Tribe does have funding to support the Sustainability Coordinator through its Carbon Credit program of protecting and maintaining the forests. The Tribe has received funding from the Grid Resilience funding and will be using a portion of those funds for Strategic Energy planning projects and capacity development. KBIC is a member of the Midwest Tribal Energy Resources Association and is part of the Solar for All application. MTERA plans to distribute $2,000,000 to each member Tribe for Rooftop solar. However, you need to have weatherization and highly efficient appliances for homes to efficiently receive the benefit of solar. MTERA has also applied for funding for an Energy Champion through the Community change program and plans to distribute $50,000 to each member Tribe to support capacity.

The Tribe has explored other possibilities of funding. They include the Home rebate and electrification program in the amount of $516,840. This amount is only allowable for low income households and does not fully meet the needs of all the membership.

1. **Transformative Impact**

KBIC would lead the way for other Tribes to develop their own utility. It provides a pathway so that net-metering agreements can be done collectively verses on an individual level. This also gives the Tribe the opportunity to lay down groundwork on producing additional power through Investment Tax Credits. It also encourages Tribal leadership to explore other revenue streams and take care of the environment. The Tribe has a duty to honor the First Treaty with others and provide a voice for those that are voiceless like the 4 legged, the swimmers, the sun, the moon, the stars, the earth. By reducing GHG, the air quality will improve, and everyone can breathe better.

In addition, EPA power profiler (<https://www.epa.gov/egrid/power-profiler#/MROE>) shows the grid electricity mix for this area (zip code 49908, MRO East) of 54% coal, 32% gas, 5% hydroelectric, 3% wind, 3% biomass, and 1% solar. The CO2 emission intensity is 1582 lb/MWh, 85% higher than the national grid average demonstrating the outsized impact of deploying renewable energy resources in the region.

The National Renewable Energy Lab updated the *Life Cycle Greenhouse Gas Emissions from Electricity Generation* in 2021 (https://www.nrel.gov/docs/fy21osti/80580.pdf). Using a systemic review of “approximately 3,000 published life cycle assessment studies on utility-scale electricity generation from wind, solar photovoltaics, concentrating solar power, biopower, geothermal, ocean energy, hydropower, nuclear, natural gas, and coal technologies, as well as lithium-ion battery, pumped storage hydropower, and hydrogen storage technologies” we can demonstrate that for grid-scale technologies the median total life cycle CO2e/kWh for photovoltaic solar is 43gCO2e/kWh and Lithium-ion battery storage is 33gCO2e/kWh. In comparison natural gas is 486gCO2e/kWh (a factor greater than 10), and coal 1001gCO2e/kWh (a factor greater than 23).

# Impact of GHG Reduction Measures

As stated in the initial paragraph of the workplan, KBIC is proposing 10 measures. The measures will meet the Nationally Determined Contribution of cutting GHG by at least 40% In addition, KBIC will continue the work of the Committee for Alternative and Renewable Energy by establishing a much needed department within the Tribe that can completely focus on improving our climate by reducing GHG emissions and staying on top of

1. **Magnitude of GHG Reductions from 2025 through 2030**

Total reduction in emissions through 2030 is 6, 798 MT CO2 equivalents. The cost per measure is listed, as well as the cost/MT CO2 equivalent.



1. **Magnitude of GHG Reductions from 2025 through 2050**



1. **Cost Effectiveness of GHG Reductions**

The cost effectiveness of the reduction measures is outlined above in table format. This was done by taking the total requested amount and dividing it by the proposed MT CO2 equivalent through the five-year grant period. The reductions through 2050 took the values of each MT CO2 equivalent and assumed the same reduction over a period of 20 years.

1. **Documentation of GHG Reduction Assumptions**

All GHG Reduction assumptions are outlined in the attached required technical appendix. The file is labeled Technical Appendix\_KBIC.



# Environmental Results – Outputs, Outcomes, and Performance Measures

1. **Expected Outputs and Outcomes**  
   
2. **Performance Measures and Plan**



1. **Authorities, Implementation Timeline, and Milestones**

|  |  |  |  |
| --- | --- | --- | --- |
| Measure | Authorities | Implementation Timeline | Milestones |
| Install 2.5 MW Solar PV System plus battery storage microgrid + 2- 300 kw PV Watt systems w/storage | Keweenaw Bay Indian Community, Village of Baraga, UPPCO | Project Manager to be hired-Month 2  Procurement of Engineering Firm-Month 4  Negotiation of Net-metering (KBIC and Utility)-Month 9 Design approval by Tribal Council- Month 12 Construction of Covered Parking - Month 24  Approval of Substantial Completion- Month 60 | Engineering Firm hired for design, Design, engineering and permitting approved; construction of covered parking, installation, interconnection, and programming; commissioning |
| Install 4 kW Solar PV System plus battery storage microgrid for Residential Tribal member homes (includes Housing stock owned by the Tribe) | Keweenaw Bay Indian Community, Tribal Member Homeowner Ontonagon REA Utility, Village of Baraga, Village of L’Anse, UPPCO | **Employees to be hired- Month 2**  **Program Policy approval – Month 6**  **Training-Month 12**  **Sites assessed- Month 15**  **Job supplies-Month 12**  **Net-metering agreement-Month 24**  **Approval of Substantial Completion- Month 60** | **net-metering agreement; installation, interconnection, and programming; commissioning, certifications** |
| **Increase building energy efficiency for commercial buildings (roof and wall insulation, window film)** | **Keweenaw Bay Indian Community** | **Staff Trained-Month 12 Energy Audits- Month 24**  **Weatherization Contractor Procured- Month 28 Approval of Substantial Completion- Month 60** | **Staff trained, energy audits completed, contractor procured, substantial completion** |
| **Increase building energy efficiency for residential buildings (roof and wall insulation, window film)** | **Keweenaw Bay Indian Community, Tribal Member Homeowner** | **Staff Trained-Month 12 Energy Audits- Month 24**  **Weatherization of homes- Month 28 Approval of Substantial Completion- Month 60** | **Staff trained, energy audits completed, home applications received, substantial completion** |
| **Increase building energy efficiency for residential buildings by installing high energy appliances.** | **Keweenaw Bay Indian Community, Tribal Member Homeowner** | **Program policy approved-Month 4 Appliance procured- Month 12**  **Approval of Substantial Completion- Month 60** | **Program policy approved, Appliances procured, Substantial completion** |
| **Increase building energy efficiency for residential buildings by electrifying heat equipment.** | **Keweenaw Bay Indian Community, Tribal Member Homeowner** | **Employees hired-month 2**  **Program policy approved-Month 4**  **Training- Month 12**  **Approval of Substantial Completion- Month 60** | Program policy approved, Training, Substantial completion |
| **Increase building energy efficiency by adopting Green Buildings Standards for major renovations; layout framework for Tribal Utility formation** | **Keweenaw Bay Indian Community** | **Employee hired- month 2**  **Attorney approved-Month 12**  **Other Utilities codes reviewed- month 24**  **Green Energy Code- Month 60** | **Procure additional attorney, legislative process for code revisions** |
| **Increase building energy efficiency for commercial buildings by electrifying heat equipment.** | **Keweenaw Bay Indian Community** | **Program policy approved- Month 4**  **HVAC contractor procured- Month 12**  **Approval of Substantial Completion- Month 60** | Program policy approved, HVAC contractor procured, Substantial completion |
| **Replace 10 current government vehicle fleet with electric vehicles and install charging station** | **Keweenaw Bay Indian Community** | **Install charging station approved - Month 12 Vehicles procured - Month 36**  **Delivery of vehicle s- Month 60** | Install charging station, electric vehicles procured, Delivery of vehicles |
| **Plant 1000 trees/year for 5 years** | **Keweenaw Bay Indian Community** | **Trees procured- Month 12**  **Substantial Completion - Month 60** | **Procurement for trees, Substantial completion** |

# Low-Income and Disadvantaged Communities

Frontline communities including Indigenous communities bear the brunt of the fossil fuel economy. In the United States treaties with indigenous communities have been consistently violated. Until recently, federal policy has limited the advancement of Tribal energy development through excessive bureaucracy, exorbitant loan application fees, restrictive federal authority, and lack of useful financial incentives. Resources allocated to Tribes through the *American Rescue Plan* *Act* (ARP), *Bipartisan Infrastructure Law* (BIL), and the *Inflation Reduction Act* (IRA) represent a shift in federal policy that recognize and address the systemic injustices of the fossil fuel economy on frontline communities and shortcomings in federal policy to address environmental injustices.

Almost 16% of Baraga County residents live below the federal poverty level. Residents experience a cancer mortality rate 172% higher than the Michigan average with current primary care shortage. Baraga County is designated as both Health Professional Shortage Area (HPSA) and Medically Underserved Area/Population (MUA/P). Given the difficulty in accessing primary care and the socio-economic statistics of residents, preventing exposure to air pollution is a lifesaving benefit to residents facing these challenges.

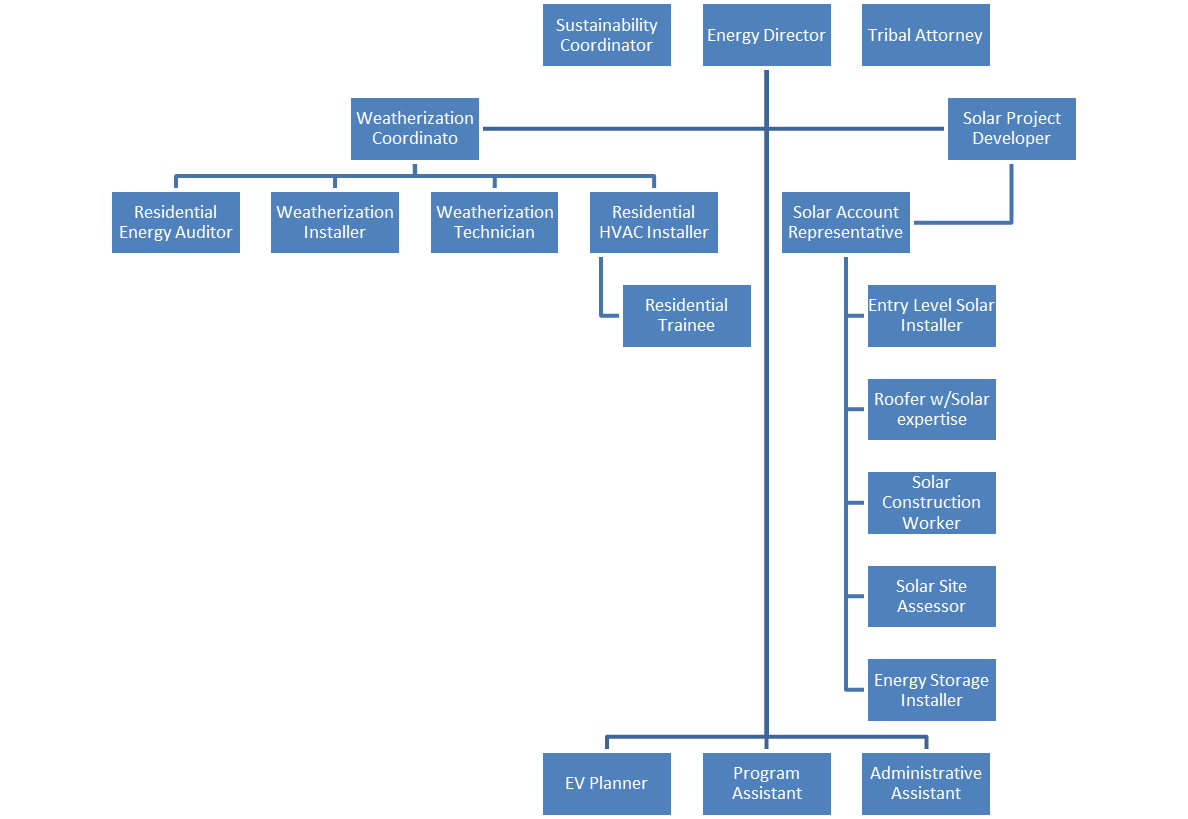
**Community Benefits**

The L’Anse Indian Reservation is located in CEJST Census tract ID Number: 26013000200 A screenshot of a map

Description automatically generated

1. **Community Benefits**

The community will benefit from cleaner air, 18 new good paying jobs with the opportunity for advancement, energy sovereignty, new revenue, climate resilience, less energy burden, more disposal income. The organizational chart of the proposed employees is below:



1. **Community Engagement**

A stakeholder presentation and survey were sent out in December 2023. Results were compiled and presented of measures to reduce GHG emissions in January 2023. A brochure was developed and printed for the Midwinter powwow. This brochure gave a high-level overview of the CPRG planning grant, along with potential and current partnerships. The Tribal Community was also asked if they wanted to submit their email information for further developments of the PCAP.

This was written this way, so that the Tribe would have a planning document for applying for the general competition due April 1, 2024, or the Tribal set-aside competition due May 1, 2024 for implementation funding. The Committee for Alternative & Renewable Energy (CARE) would review the PCAP and provide a recommendation to the Tribal Council on adoption of the PCAP. CARE conducts their business using Robert's Rules of Order, with a majority vote providing a decision. The Tribal Council also uses Robert’s Rules of Order to conduct business, where the majority of the Tribal Council present would decide on adoption of the PCAP.

A survey was developed to identify the priority measures within each sector and sent to each member of the CARE to be completed using Survey Monkey. All measures listed in the EPA CPRG Implementation application were included and the stakeholders were asked whether they would like to see the measure as a priority (to be completed within 5 years), a longer-term goal for completion, or not at all. An open-ended question was included for each sector in case a stakeholder had suggestions that were not listed. Those measures ranking more than 80% were chosen as priorities to be further analyzed for KBIC’s PCAP. The potential GHG reduction measure impacts were calculated using EPA’s Greenhouse Gas Equivalency Calculator for several of the proposed measures. The administrative procedure for each measure was outlined for each proposed measure.

The presentation given to the CARE included an outline of previous work done by CARE and KBIC and high-level measures presented in the United States Strategy to address climate change to remain less than 1.5ºc.

The below goals are listed as the Nationally Determined Contribution (NDC):

* The 2030 NDC of 50-52% reductions below 2005 levels, covering all sectors and all gasses
* The goal for 100% carbon pollution-free electricity by 2035
* The goal for net-zero emissions is no later than 2050.

The survey was created using measures provided in the CPRG implementation application and respondents included 11 CARE members. The survey was designed so that the results could inform KBIC’s Tribal priorities for GHG reduction measures. Below are some high-level findings:

* A total of 12 measures rate ≥81.82% for PCAP within 5 years.
* Top three sectors included Building, Carbon Sinks, and Electric Power Sectors respectively
* There is potential for overlap in implementation between measures in different sectors.

**Sector 2 (Electric Power Sector)**

* Installation of renewable energy and energy storage systems on Tribal government-owned facilities (90.91%)
* Development of distributed or community-scale renewable energy generation, microgrids, or vehicle-to-grid infrastructure. (81.82%)
* Tribal Energy Utility. (81.82%)

**Sector 3 (Building Sector)**

* New construction commercial and residential buildings-energy code (90.91%)
* Energy efficiency measures in existing Tribal government-owned, commercial, and residential buildings (90.91%)
* Incentive programs for the purchase of certified energy-efficient appliances, heating and cooling equipment, lighting, and building products to replace inefficient products (90.91%)
* Electrification of Tribal government-owned, commercial, and residential buildings (81.82%)
* Programs to promote recovery and destruction of high-global warming potential (GWP) hydrofluorocarbons (HFCs) used in existing appliances, air conditioning systems, and commercial chillers (81.82%)

**Sector 7 (Carbon Sinks Sector)**

* Policies to promote improved forest management to enhance carbon stocks on forested land (81.82%)
* Restoration of degraded lands (e.g., brownfields, mine reclamation) and forested lands to enhance carbon sequestration (81.82%)
* Protect Forest (81.82%)

The survey results are analyzed below with the sectors selected based on the number of measures in each sector ≥81.82%. These include measures from the *building*, *electric power*, and *carbon sink sectors* respectively. This section explores overlap between priority measures within and across sectors.

The implementation grant will primarily focus on 4 areas: Reduction of energy emissions through renewable energy generation for the power sector, reduction of energy consumption through building retrofits (commercial and residential) through the Building sector, reduction of emissions from vehicles for the Transportation sector, and environmental management and planning techniques for Agriculture and land management sector. These sectors closely represent the priorities of CARE and the Tribal community based on surveys conducted in 2021 and 2024. By focusing on these GHG reduction measures, the Tribe can reduce GHG emissions that contribute to climate change and promote Tribal Energy Sovereignty and resilience.

# Job Quality

The Keweenaw Bay Indian Community is one of the largest employers in Baraga County and has a competitive employee package that includes Life & Disability, BCBS Health Plan, Workman’s comp, employer match of up to 6% of employee’s salary. The Tribe also provides annual cost of living increases to employees and has a progressive paid time off policy. There is also a grievance policy and Tribal Employment Rights Office located in the Tribal Center. The Tribe also provides paid time off to further an employee’s education. The Tribe proposes 18 new positions. Descriptions of these positions are in the budget narrative. All positions are brand new and have not previously been in place except for the weatherization positions.

# Programmatic Capability and Past Performance

KBIC is approximately 69% grant funded with an annual budget of approximately $44 million in 2024

Grant awards (energy and environmental grants only). KBIC regularly administers grants and cooperative agreements from the U.S. EPA and meets quarterly and final reporting requirements for these programs. Below is a list of US EPA assistance agreements that KBIC has performed within the last three years.

U.S. EPA Performance Partnership Grant: BG-02E01328

·U.S. EPA Indian General Assistance Program: Funding amount: $220,000

Documentation of progress was included in quarterly progress reports, required reports, other submittals, and the final report, submitted to the U.S. EPA Region 5 American Indian Environmental Office Project Officer Tina Davis. The agreement was completed satisfactorily, and final report was accepted.

· U.S. EPA Brownfield Tribal Response Program Grant: Funding amount: $224,076

Documentation of progress was included in quarterly progress reports, required reports, other submittals, and the final report, submitted to Lauryn Coombs, Brownfields Project Manager of the U.S. EPA Region 5 Superfund Division. Progress was delayed during the project on some proposed items, and these were reported in quarterly reports and discussed with the grant project officer at U.S. EPA. Project agreement was completed satisfactorily, and final report was accepted.

· U.S. EPA CWA 106 Program Grant: Funding amount: $316,800

Documentation of progress was included in quarterly progress reports, required reports, other submittals, and the final report, submitted to the U.S. EPA Region 5 Office of Water Project Officer Nancy Weber. Grant project was completed satisfactorily and final report was accepted.

All agreements listed above were successfully managed and completed, as documented in quarterly progress reports and the final progress report. Environmental results proposed in the above agreements were achieved. All reporting requirements were met, and all final reports were submitted and determined acceptable by the US EPA.

State of MI EGLE

* 1. MICROS-R4-10 Recycling $10,000
  2. Rural Electronics Recycling Grant, 9/30/2019 – 9/30/2021, $4,000.00, Project: Establish E-waste drop off site program at the KBIC Solid Waste Facility
  3. Scrap Tire Cleanup Grant, 12/31/2019 – 12/31/2020, $4,000.00, Historic scrap tire cleanup
     1. Scrap Tire Cleanup Grant, 6/21/2021 – 12/31/2021, $4,000.00, Historic scrap tire cleanup
     2. Recycling Infrastructure Grant, 12/14/2020 – 3/31/2024, $40,000.00, Establish cardboard recycling program at KBIC Solid Waste Facility involving installation of 3phase power, purchase of baler, and installation of baler.

1. **Federal (other)**
   * 1. 2009-2012 – DOE Assessing the Feasibility of Renewable Energy Development and Energy Efficiency Deployment on Tribal Lands, $207,680 with match of $15,000
     2. 2010 - DOE Weatherization Training Project, $137,640
     3. Keweenaw Bay Indian Community - 2010 Energy Efficiency Project, <https://www.energy.gov/indianenergy/keweenaw-bay-indian-community-2010-energy-efficiency-project>
     4. 2013 - Solar Deployment, MEDC w/UDSA FDIR food distribution on Indian Reservations and KBIC match, $90,000. Funded: USDA $60,000, MEDC $15,000 matching funds, KBIC provided $10,000 through in-kind contributions and $5,000 in cash. USDA Food Distribution on Indian Reservation - 20 kW, Commodity foods (food pantry)
     5. 2014-2017 – Solar deployment, funding Indian Health Services, Solar Edge Program, $450,000
        1. Residential Treatment Facility ~60 kW
        2. Health System ~90 kW-I.H.S. Facility
2. **Reporting Requirements** Monthly updates will be made by the consultants to the project manager and they will follow the workplan timeline. As well as complying with required grant reporting, the final product, updated GHG emissions will be collected and recorded by staff and will be shared with EPA.
3. **Staff Expertise** 
   1. Evelyn Ravindran (Director, Natural Resources Department) has been with KBIC NRD for 11 years. Evelyn studied Biological Sciences at Lake Superior State and Michigan Technological University and is active on many committees and advisory groups in Indigenous natural resources and Indigenous knowledge. She will be providing general oversight on the project, including RFP development, review, and approval, administration of grant funds for salary purposes, tracking project milestones, authorizing continuing work and change orders, authorization of disbursements to the grant department, review corrective actions and incident reporting. Both installations fall within the prevue of the NRD.
   2. Lyndon Ekdahl is responsible for all facilities and systems for KBIC government buildings and infrastructure. He will provide direct oversight of projects including RFP development and review, and project progress and development. Ensure safe working conditions and site security monitor and report incidents/accidents.
   3. Don Lee - Technical staff/project liaison. Don is a technical assistant on the KBIC CPRG Priority Climate Action Plan and assisted with demographic and technical specifications, and will continue to assist with the development of and adherence to project specifications, performance metrics, etc. Don has been working with KBIC since 2021 as a research associate on the NSF-funded Michigan Community & Anishinaabe Renewable Energy Sovereignty (MICARES) project. He is a PhD Candidate in the Environmental and Energy Policy program and MTU and has commercial construction management experience.
   4. Bruce LaPointe is Assistant Public Works Director. He has oversight of weatherization and HVAC contracts and is experienced as a project manager for construction, maintenance. He has experience in grant management and procurement. He has also worked with the BPI institute in setting up training for workforce development of a weatherization crew.
   5. Claire Christen, Sustainability Coordinator, was recently hired and begins her position in May 2024. She has carbon footprinting experience and holds a Bachelor’s degree in Environmental Engineering.

# Budget (Optional Budget Spreadsheet and up to 10 additional pages may be added if needed as an appendix to the Work Plan)

1. **Budget Detail**



1. **Expenditure of Awarded Funds**

KBIC will maintain the work plan time line and expend funds accordingly; project manager will have salary drawn down and ensure contractual and supply funding is spent during project time line**.**

1. **Reasonableness of Costs**

The Tribe maintains an up to date Purchasing and Procurement policy that has separation of duties and requires employees to solicit bids based upon tier of purchase. With this requirement, the best deal can be sought. The positions were established at rates published on the career maps. Rates for all estimates for solar contracts, HVAC installations, weatherization contracts and installations were all obtained from credible sources on the internet such as EPA, DOE, etc.