

1. BUDGET

a. Budget Detail

i. Appropriate and reasonableness of costs:

- i. All costs are taken from reference projects and quotations reflecting real 2024 market conditions. With this grant's tremendous funding in this market sector, we anticipate significant impacts on the supply chain, availability, and cost of electric vehicles, photovoltaic panels, and related infrastructure and consumables. Recent inflationary and supply chain patterns reflect anywhere between 3% and 15% cost escalation per year on labor, supplies, and capital goods depending on calculation basis. Should these patterns continue, we anticipate severe increases in costs for this program. Global political and economic stability directly impacts this program's rare earth, lithium, and computer chip inputs. It exposes these costs to significant forecasted instability both in supply and cost during the grant period.

ii. Personnel and Fringe costs are divided evenly between the two programs.

- i. **Personnel** = \$529,500 - NANRO intends to use the grant funds to staff a full-time CPRG Project Coordinator Position. This will be a new position that will be filled using NAT HR policies and procedures. A job description and qualifications will be developed with input from the EPA grant lead. The CPRG Project Coordinator will work under the NANRO Environmental Director and serve as the main point of contact between NAT, EPA, and NAT contractors working on the project. The CPRG Project Coordinator will coordinate activities and ensure the project schedule and deliverables are on track. The grant funds will also support Env's existing NANRO staff positions. Director and Env. Scientist at the 25% FTE level. The Env Director will manage the fiscal and administrative aspects of the project, coordinate with the NAT Finance office, and ensure compliance with grant conditions. The Env Scientist will provide additional technical support to the project. This cost includes a 4% year-over-year inflationary increase.
- ii. **Fringe** = \$57,770 – As percentages of above fractional salaries, composed of FICA – 6.2%, FMED – 1.45%, State Unemployment Tax (up to \$25,400) – 2.57%, Workers Comp – 1.61%.

iii. Measure 1

i. Equipment – \$10,095,985 - 209 vehicle replacements.

1. Costs are estimated from reference projects. RFP awards to viable EV dealerships will occur and will set annual prices for replacing 20% of the vehicle fleet year over year at approximately \$2,019,197 per year. This budget is significantly exposed to the durability and market risks described above.

ii. Equipment – \$1,254,000 - 209 single port 11kW EVSE Level 2 chargers.

1. Commodity equipment to provide plug-in capabilities where our fleet management occurs at \$250,800 annually. Contract construction experts will install these with each project phase, connecting the charges to the level 3 stations and photovoltaic generating infrastructure.

iii. Equipment – \$800,000 - 4 dual port 160kW EVSE Level 3 Stations

1. Commodity equipment to provide plug-in capabilities where our fleet management occurs. These will be rolled out during the program's first two years at \$400,000 annually to provide the required infrastructure to support the program over time.

iv. Equipment – \$2,287,500 - 61 rooftop solar PV 25kW

1. Commodity photovoltaic panels are linked to power charging stations and realize complete GHG reduction compared to fossil fuel-generated energy on the grid. These will be rolled out at \$457,500 per year, corresponding to the increase in demand as we replace 20% of the fleet annually.

v. Contractual – Construction - \$522,500 – EVSE Level 2 installation

1. Install the point of charging infrastructure in a 1:1 ratio with the number of electric vehicles purchased with a budget of \$104,500 per year.

vi. Contractual – Construction - \$150,000– EVSE Level 3 installation

1. Install the core charging infrastructure between photovoltaic charging stations and the level 2 point of plug infrastructure. This is budgeted at \$50,000 per year for the first two years, representing the initial installation of the infrastructure, and \$25,000 per year in years three and four, representing the work to connect additional Level 2 plugins and photovoltaic generation capacity.

vii. Contractual – Construction - \$2,287,500 – rooftop solar installation.

1. Implement photovoltaic panels on rooftops and advantageous locations to generate sufficient capacity to service the demand of the replacement electrical vehicle fleet. 61 stations are estimated to be required, rolled out in phases at \$457,500 annually for expert contractor installation.

viii. Contractual – Other - \$192,000 – EVSE maintenance and fleet management

This contract covers the maintenance and demand management software for Level 2 and Level 3 charging infrastructure. The budget for the first two years is \$24,000 per year, and it increases to \$48,000 for the subsequent three years as more units get added during the phased vehicle fleet replacement. We expect similar cost escalation for the ongoing sustainment and expansion of the program beyond the grant performance period.

ix. Contractual – Other - \$80,000 – Maintenance of rooftop solar installations.

The contract covers the service and maintenance of photovoltaic panels. The budget for the first two years is \$10,000, and for the next three years, it is \$20,000 as additional units come online. This corresponds to the phased replacement of vehicles and increasing generating demand. Similar cost escalation is expected for ongoing sustainment and expansion of the program over time beyond the grant performance period.

x. Contractual – Other – EV Safety, Maintenance, Usage training for fleet management staff, operations staff.

The tribe has allocated a budget of \$30,000 for the first year and \$60,000 for the second year for contracted training aimed at equipping operations and maintenance staff with the necessary skills to support the vehicle fleet and point-of-plug usage of the Level 3 stations and related infrastructure. In the following three years, the budget for this training will remain at \$30,000 as more departments continue to convert to electric vehicles. This training expense is vital as it enhances the tribe's capacity and self-determination while supporting the transformative aspects of adopting electric vehicles in the tribe's operations and staff.

iv. **Measure 2**

i. Equipment - \$10,000,000 – as 20 high-efficiency prefabricated homes plus delivery and setup.

Our estimated cost for a complete home package, including fabrication, delivery, erection, fit-out, and finish, is \$500,000. In the first year, we allocated \$250,000 for commitment payments to manufacturers to establish a stable supply chain for the next three years. As we ramp up the program, we have budgeted \$2,750,000 for year two, \$4,500,000 for year three, and \$2,500,000 for year four. By year five, we will have completed the delivery and payment for all these homes.

ii. Equipment - \$12,000,000 – All hardware and equipment to establish generation, storage, and distribution of renewable energy to 20 homes in program.

1. We have not identified the grid's location and technical details; this is a cost estimate based on similar reference projects. This cost includes the components required to generate, store, distribute, and manage the power required to fully support the demand of the 20 homes established under these projects. Due to the design, permitting, and implementation lead-time required to ensure this grid is well developed and operated, we have identified expenses of \$4,000,000 per year for years three through five for procurement, construction, and integration of this grid into the community power infrastructure.

iii. Contractual – Construction - \$6,500,000 – site work for 20 houses.

1. Terrain compaction, testing, cement pad, and utility hookups for each phase of the project. Corresponding to the purchase and installation of the 20 prefabricated homes, we will begin site work with a budget of \$1,000,000 in year 2, \$3,000,000 in year three, \$2,000,000 in year four, and \$500,000 in year five as we take delivery of the final houses.

iv. Contractual – Construction - \$750,000 – Geothermal bore holes for each home.

1. This component provides deep-bore geothermal holes and piping to help mitigate heating and cooling demand during extreme weather conditions. Boring, piping, and setup for this infrastructure will cost \$750,000 in year two and service all 20 houses as they are delivered and set up.

- v. Contractual – Construction - \$230,000 – Architecture, engineering, construction management and administration.**
 - 1. Standard contract for design, engineering, construction management supports, and administration of the construction process supporting the site work and house installation. This contract is budgeted as \$112,500 for the first year for front-loaded design and engineering work required to plan and initiate the project. Ongoing contract costs of \$37,500 in year two, \$50,000 in year three, \$20,00 in year four, and \$20,000 in year five.
- vi. Contractual – Construction - \$100,000 - Feasibility studies and microgrid design.**
 - 1. Engineering and design of the microgrid system along with the ongoing support required to procure, set up, interconnect, and operate this grid in support of these 20 homes. This contract is budgeted as \$25,000 per year for years one through four.
- vii. Contractual – Construction - \$125,000 – Owner’s Representative.**
 - 1. A standardized contracted resource for managing projects and day-to-day construction, permitting, and liaising with agencies and utilities.
- viii. Contractual – Construction - \$4,455,750 – Standard 15% construction contingency**
 - 1. Standard contingency carried out to address risks of cost escalation in labor, equipment, and materials related to the risks described in section a.i.i. This is calculated against contractual and equipment line items for each year of the project.
- v. Itemized budget table**
 - i. See the attached budget spreadsheet from the EPA template.