

## COVER PAGE

### CPRG – PROPOSAL TO ADDRESS RURAL ALASKA’S CRITICAL ENERGY CHALLENGES

#### **APPLICANT INFORMATION**

Organization: Alaska Energy Authority (AEA)

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**TYPE OF APPLICATION:** Lead Applicant for a Coalition; coalition members include the Tanana Chiefs Conference (TCC) and Northwest Arctic Borough (NAB)

**FUNDING REQUESTED:** \$49,986,112

**APPLICATION TITLE:** CPRG – Proposal to Address Rural Alaska’s Critical Energy Challenges

**BRIEF DESCRIPTION OF GHG MEASURES:** AEA is spearheading a comprehensive measure proposal aimed at addressing critical energy challenges faced by rural communities in Alaska. This proposal encompasses the following components presented by AEA and its coalition partners: Diesel Genset Replacement, Distribution System Upgrades, Village Energy Efficiency Program (VEEP), NAB’s Power and Water Plant Upgrades, and TCC’s distribution and powerplant upgrades. AEA is committed to making substantial, long-term emissions reductions while simultaneously delivering numerous benefits to these remote communities.

**SECTORS:** Electricity Generation

#### **EXPECTED TOTAL CUMULATIVE GHG EMISSION REDUCTIONS:**

Estimated cumulative GHG reductions for 2025 – 2030 (in metric tons) - **22,943**

Estimated cumulative GHG reductions for 2025 – 2050 (in metric tons) - **146,846**

**LOCATIONS:** The proposed measures will be implemented in numerous disadvantaged communities located throughout much of rural Alaska.

#### **APPLICABLE PRIORITY CLIMATE ACTION PLAN (PCAP) ON WHICH MEASURES ARE BASED:**

PCAP Lead Organization: Alaska Department of Environmental Conservation (DEC)

PCAP Title: State of Alaska Priority Sustainable Energy Action Plan

PCAP Website: [CPRG - Alaska Federal Funding \(akfederalfunding.org\)](https://www.akfederalfunding.org)

List of GHG reduction measures and PCAP page reference for each measure:

- Replacement of low tier high-emitting diesel generators with more advanced Tier 2 and 3 marine engines that emit lower PM levels.
- Upgrade distribution systems throughout rural Alaska. These modifications will improve overall system efficiency by reducing line losses and diesel fuel usage within powerhouses.
- Expand upon the Village Energy Efficiency Program (VEEP) by upgrading public buildings and infrastructure with energy-efficient materials for high-energy cost communities.

These measures are included in the “AEA DERA, VEEP, and Rural Distribution Programs” measure on page 47-49 of the PCAP.