

2008 Innovations Awards Program APPLICATION

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ID # (assigned by CSG): 08-W-01AK

Please provide the following information, adding space as necessary:

State: ___Alaska

Assign Program Category (applicant): _____Energy_____ (Use list at end of application)

1. Program Name
Village End Use Efficiency Measures (VEUEM)
2. Administering Agency
Alaska Energy Authority
3. Contact Person (Name and Title)
Rebecca Garrett, Program Manager
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Program results are available at our website www.akenergyauthority.org
9. Please provide a two-sentence description of the program.
Provide training and implementation of end use efficiency measures in rural communities.
10. How long has this program been operational (month and year)? Note: the program must be between 9 months and 5 years old on March 1, 2008 to be considered.
January 2005 program began. Phase II, and III have since joined.
11. Why was the program created?
This program was created to address the high cost of energy in rural Alaska which depends on expensive diesel generation.

What problem[s] or issue[s] was it designed to address?

Additionally, new power systems and tank farms are being built in these communities and it only makes sense to have them properly sized for the true needs of the rural community.

12. Describe the specific activities and operations of the program in chronological order.

Sites selected by Program Manager based on their power system upgrade status.

Local non-profit, Alaska Building Science Network contacts the community and sets up a meeting.

Teleconference with community to determine number of buildings, size, and local labor.

Collect lighting counts.

Order materials.

Ship materials.

Travel to community to train workers, explain the program again, distribute materials, and assist in installation.

Determine additional measures as needed.

Boiler training performed at a “hub” community like Bethel or Nome to train two people from each community how to update and maintain efficient boiler systems.

Site visits to each community for hands on boiler training.

Site visits to install final efficiency measures.

“Warranty” work.

Continued relationship to determine reduction in energy use.

Prepare final report.

Each site takes about 1 year from start to finish with up to 20 sites on-going at any one time.

13. Why is the program a new and creative approach or method?

This program uses the regional support method, a non-profit entity providing support and education and while it is 100% grant funded, you can see from our results that we have actually leveraged a lot of local resources.

14. What were the program’s start-up costs? (Provide details about specific purchases for this program, staffing needs and other financial expenditures, as well as existing materials, technology and staff already in place.)

This program started with \$644,000 for 17 villages. Specific break downs are available. Our non-profit entity has kept their costs at about 12%.

15. What are the program’s annual operational costs?

AEA staffing cost are under \$5,000 per year. Detailed financial reporting is available in the attached reports.

16. How is the program funded?

This program is federally funded through the Denali Commission in support of their legacy programs – Rural Energy. www.denali.gov

17. Did this program require the passage of legislation, executive order or regulations? If YES, please indicate the citation number.

No.

18. What equipment, technology and software are used to operate and administer this program?

To keep costs down, we use off the shelf and existing technology and software. Our tracking is done through excel, access, and in the future – maybe Navision.

19. To the best of your knowledge, did this program originate in your state? If YES, please indicate the innovator's name, present address, telephone number and e-mail address.

YES! This project was created by AEA staff.

20. Are you aware of similar programs in other states? If YES, which ones and how does this program differ?

No. Few states have the same transportation and generation issues that Alaska has.

21. Has the program been fully implemented? If NO, what actions remain to be taken?

YES! Please take a look at the results included.

22. Briefly evaluate (pro and con) the program's effectiveness in addressing the defined problem[s] or issue[s]. Provide tangible examples.

This program is 100% grant funded. That turns many people away, until you look at what we can leverage with that money (thus it is not 100% grant funded) and how many gallons of diesel we have displaced. All diesel going into communities means money going out. Additionally, the more diesel you have in a community, the higher the chance of environmental damage. This program is the first step to reducing dependence on diesel.

23. How has the program grown and/or changed since its inception?

33 communities have been added and one community – Nightmute will receive a “whole village” retrofit, a partnership of more than 8 agencies around the state. This project will be implemented during the construction season 2008, and includes alternative energy.

24. What limitations or obstacles might other states expect to encounter if they attempt to adopt this program?

Direct fossil fuel displacement may not be immediately traceable due to different utility and transmission system design. However, the model can provide an example for distressed rural areas that have to reduce their energy bills to survive.