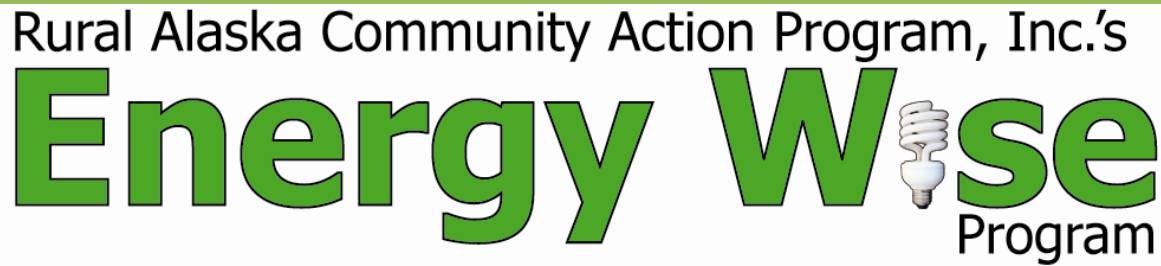


Rural Alaska Community Action Program, Inc.'s

Energy **W** **ise** Program



Rural Alaska Community Action Program, Inc.
Jolene John, Community Development Manager
(907) 865-7358, jjohn@ruralcap.com



GOALS

- **Reduce** residential energy consumption
 - Behavior change
 - Low-cost home upgrades
- **Create jobs** for rural Alaskans
 - Hire and train locally
 - Professional development and certification

EFFECTIVE BEHAVIOR CHANGE

- Message Delivered by Local Crews
 - 4- 10 hired per community, 6-12 weeks
 - Professional training and certification
- Energy Fair
 - Engages entire community
 - Residents sign-up for home assessment
- Home Visits - Energy Assessments
 - 2 crew members, 1 full day (8 hours) per home
 - Residential survey
 - Residents participate in finding where energy is used and how to save
 - Review energy bills and potential savings
 - \$300 of energy efficiency supplies installed
- Follow-Up Education and Survey
 - 3 to 6 months after home assessment

COMPLEMENTS WEATHERIZATION

- Focus on education and behavior change
- Project engages entire community
- Prioritize communities not recently served or to be served by Weatherization
- All homes eligible

2010 RESULTS SHOW SUSTAINED CHANGE

- 86% reported they were still practicing energy efficiency and conservation measures
- 80% reported decreased electric bills
- 82% reported decreased home heating costs

Before Energy Wise:

- \$186 = 287 kWh/month
 - \$63 is paid by resident (\$0.218)
 - \$123 is covered by PCE (\$0.427)

After Energy Wise:

- 90 kWh/month reduction
- \$127 = 195 kWh/month
 - \$43 paid by resident (**\$20 savings**)
 - \$84 is covered by PCE (**\$39 savings**)

SUMMARY OF PROGRAM OUTCOME

- Leverage additional funding when feasible
- Identify, purchase, ship supplies
- Update training materials and coordinate training logistics
- Hire Crew Leaders in partnership with local community
- Host Professional Certification Training and Crew Leader Training
- Host educational Energy Fairs
- Hire Crew Members in partnership with Crew Leader and community
- Host on-site Launch Week in each village and provide hands-on training to all Crew Members



Energy Wise Crews - Preparing for Future Employment:

- Energy Development
- Weatherization
- Construction Fields

Through DTF Grant, all crews receive training and certification in:

- Weatherization Tech 1
 - General building science
 - Weatherization basics
 - Hands-on installation experience
- Occupational Safety and Health Administration (OSHA) 10
 - Construction safety standards
- First Aid

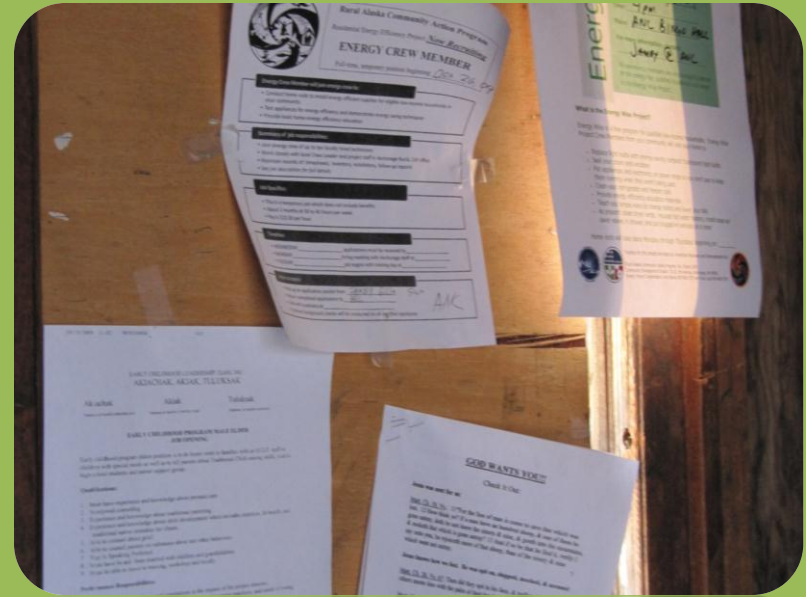


COMMUNITY RELATIONSHIP BUILDING

- Community contact
 - Local council and existing local resources contacted
 - Memorandums of agreement completed
 - Updated timeline reviewed with all sites
- Site visits conducted to each village (spring/summer)
 - Relationship building
 - Meet with local contacts to review plans
 - Visit with residents/homes to confirm supplies needed
- Work together to recruit and hire Crew Leaders and Crew Members
- Crew Leaders engage community members through Energy Fairs
- Host on-site Launch Weeks with support from local community. Hire and train Crew Members.



CREW LEADER HIRING & TRAINING



- One Crew Leader hired from each site
 - 4 day Crew Leader Training takes place in the Hub Community within the region
 - Central training allows all Crew Leaders to meet their peers and build a network of support

CREW MEMBER HIRING & TRAINING



- 4-10 Crew Members hired in each village and trained on site

Launch Weeks:

- Typically occurs in October/November
- Each community receives 4 days of localized training
- A RurAL CAP Project Coordinator works with Crew on how to conduct home visits
- One or two sites launched weekly



SUPPLIES AND SHIPPING

- Supply lists reviewed and updated to match community needs
- Bids received from vendors and reviewed
- Supplies received at the RurAL CAP offices, inventoried and consolidated (to reduce packaging waste) and received in villages on time
- Regional Partner's logo has been added to crew sweatshirts and hats, and materials installed in homes

\$300 in Supplies for Home Upgrades



- Window insulation film
- Compact fluorescent lights
- Silicone and foam spray
- Weather stripping
- Jamb-up door kit and door sweep
- Foam tape and mounting tape
- Pipe insulation
- Faucet aerators, soap-up valve and low-flow shower heads
- Power strips with surge protectors
- Hygrometers
- Refrigerator thermometer and coil cleaners
- Outlet and light switch insulators, plug protectors
- Water heater blanket
- Fire alarm, extinguisher, and carbon monoxide detector



IMPLEMENTATION TIMELINE

- On average, 500 Home Visits completed by January 31
- Homes receive:
 - Full day home visit from crew
 - Education on energy conservation and efficiency
 - Energy use assessment, appliance testing, energy bill review
 - Installation of \$300 worth of supplies
- Crews aim for 100% participation of all homes



Reviewing Energy Bills



Testing Appliances



Cleaning Fridge and Freezer Coils



Replacing Incandescents with CFLs



Installing door sweep and weather-stripping

Installing water heater blankets and teaching maintenance



Insulating outlets and switches

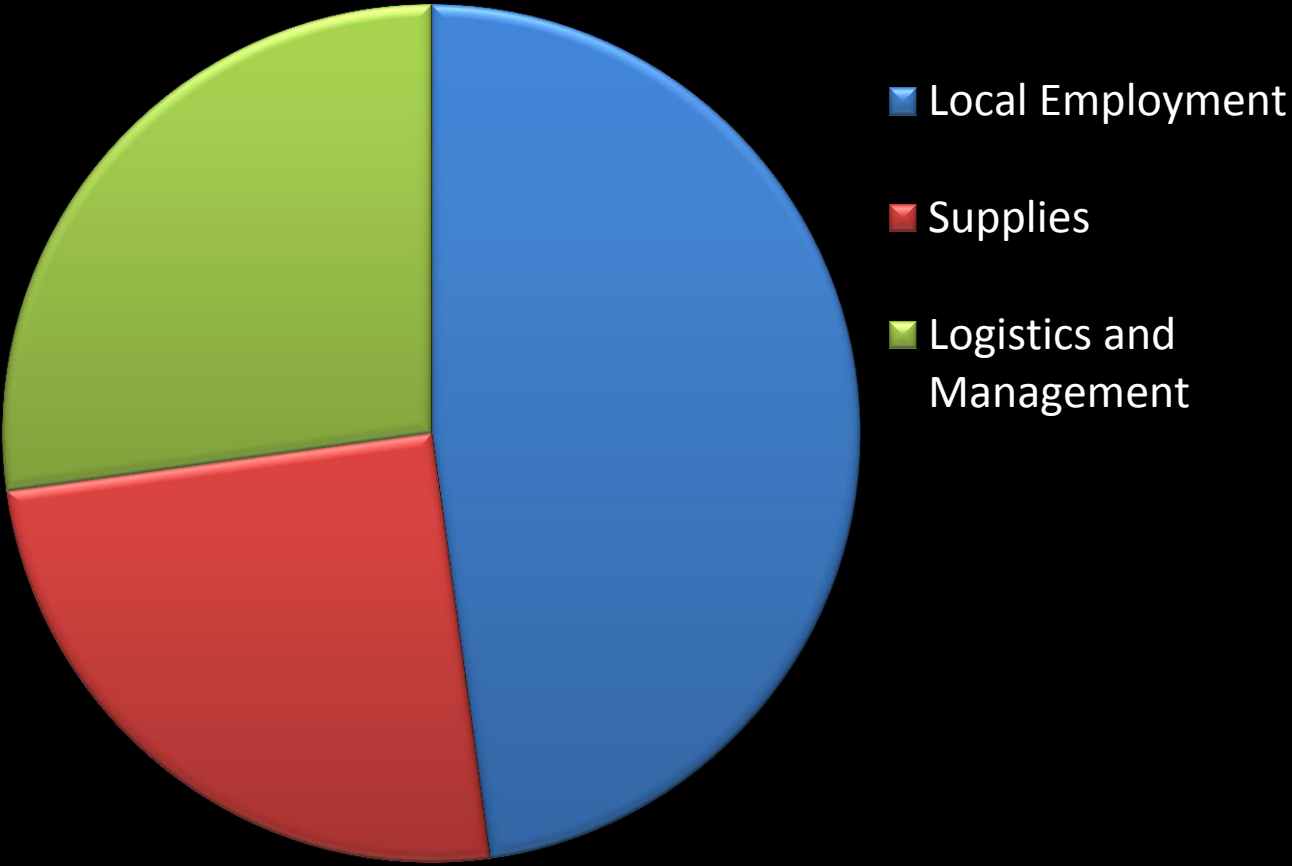


Applying window film



Crews Show Residents How to Save Energy and Money

Energy Wise Budget Breakdown \$2,000/home



EXAMPLE OF A REGIONAL PARTNERSHIP SCHEDULE

NANA – ENERGY WISE PARTNERSHIP

Three Year Plan

2011

- Buckland
- Noatak
- Shungnak
- Ambler
- Noorvik
- Kivalina

Total: 589 homes

2012

- Deering
- Kiana
- Kobuk
- Selawik
- Kotzebue (186)

Total: 492 homes

2013

- Kotzebue
(700+)

Total: 700+ homes

NANA – ENERGY WISE PARTNERSHIP

2012-13 Outcomes:

- 5 communities served - Deering, Kiana, Kobuk, Kotzebue and Selawik
- 70 local individuals - hired and trained
- 492 home visits
- 2,000+ people to receive energy efficiency and conservation education and resources
- Energy bill savings

ENERGY WISE REQUIRES RESOURCES:

- RurAL CAP will continue to approach the legislature in January and February with a funding request for Energy Wise
- Proposal submitted to the Rasmuson Foundation for supply funding
- Ongoing search for other funding sources to supplement the cost of Energy Wise in Rural Alaska
- **RurAL CAP has been on track to finish on time and on budget**

IMPLEMENTATION TIMELINE:

- April/May – use evaluation to update supply/purchasing
- May/June – purchase supplies
- July/August – receive supplies and update training materials, review outcomes from prior years; collaborate with partners to strengthen outcomes
- September - Crew Leaders hired
- October - Crew Members receive professional certification
- October/November - Launch week (training, energy fairs, community involvement)
- November – January: Home visits
- April 30 - Follow-up home visits conducted
- May 31 - Final report to Partners by May 31

Rural Alaska wants Energy Wise!

- Interested sponsors of the Energy Wise project may contact our office
 - A budget utilizing regional/local cost estimates can be completed
 - Stakeholders can be contacted, including:
Tribal/Municipal Councils, Housing Authorities, Regional/Village Corporations, Regional Non-profit Organizations, School Districts, CDQ groups, etc.



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