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Energy Wise is a comprehensive residential energy efficiency and conservation education program.

 RurAL CAP works in partnership with local communities to reduce the burden of high energy costs.



Rural Alaska Community Action Program, Inc.'s Energy Wisse Program

- Reduces energy consumption, saves money
 - Household assessment of energy use
 - Identification of best savings options
 - Low-cost home upgrades
- Saves PCE
- Creates jobs for rural Alaskans
 - □ Hire and train locally
 - Professional development and certification

PROVEN RESULTS

- 99% of households participate
- 80%+ report maintaining changes, lower bills, warmer homes
- Residents save:
 - □ \$20/month in electricity = \$240/year
- State saves PCE reduction:
 - □ \$39/month = \$468/year
- Project cost is \$2,000/home:
 - Annual savings = \$708/year
- Return on Investment = less than 3 years in electrical savings alone

REDUCING THE ENERGY BURDEN

CAPSIS request for \$20M for conducting Energy Wise across Alaska

- Energy Wise is a tested and proven initiative with immediate and long-term results
- Energy Wise can provide immediate relief to communities outside the Railbelt with few other options
- RurAL CAP is committed to reducing the energy burden for Alaskans while creating healthy economies and sustainable communities
- Regional and local requests for expansion

OPERATIONAL PLAN FOR \$20M

- 5 year plan, \$4M per year
- \$2,000 per home, 2,000 homes per year
- 150 rural Alaskans employed per year
- Competitive selection process will evaluate
 - Energy burden and resources
 - Economic stress
 - Efficiency considerations: population size and geographic dispersion
 - Community and regional organization buy-in, commitment of available resources, and support

COLLABORATIVE EFFORT WITH STATE ENERGY PARTNERS

Designed and implemented in partnership with:

- Alaska Housing Finance Corporation
- Alaska Energy Authority
- Weatherization Service Providers
- Housing Authorities
- Department of Energy
- Denali Commission
- Department of Labor
- Regional and community organizations
- Utilities

COMPLEMENTS WEATHERIZATION

- Prioritizes communities not recently served or scheduled to be served by Weatherization
- Focuses on immediate improvements for energy savings and education
- Residents are involved in assessing energy use and making changes in their homes
- Engages the entire community, all homes eligible



EFFECTIVE PROGRAM DESIGN

- Community Partnership
- Message Delivered by Local Crews
 - □ 4- 10 hired per community, 6-12 weeks
 - Professional training and certification



EFFECTIVE PROGRAM DESIGN

Energy Fair

- Engages entire community
- Residents sign-up for home assessment



EFFECTIVE PROGRAM DESIGN

- 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



HOME VISIT



Crews Show Residents How to Save Energy and Money

\$300 IN ENERGY EFFICIENCY SUPPLIES



- 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

ENERGY HOME VISITS



Insulating outlets and switches

Installing water heater blankets and teaching maintenance



Applying window film



Installing door sweep and weatherstripping



EFFECTIVE PROGRAM DESIGN Follow-Up Education and Survey 3 to 6 months after home assessment



2010 ENERGY WISE RESULTS

- 120 rural Alaskans trained and employed
- 90% retention of crews
- 1,000 homes served
- 7,500 educated
- \$\$\$ energy and money saved



2010 OUTCOMES – SUSTAINED CHANGE

Based on 700 follow-up home surveys:

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



KASIGLUK CASE STUDY 2010 AVERAGE MONTHLY ELECTRICAL SAVINGS

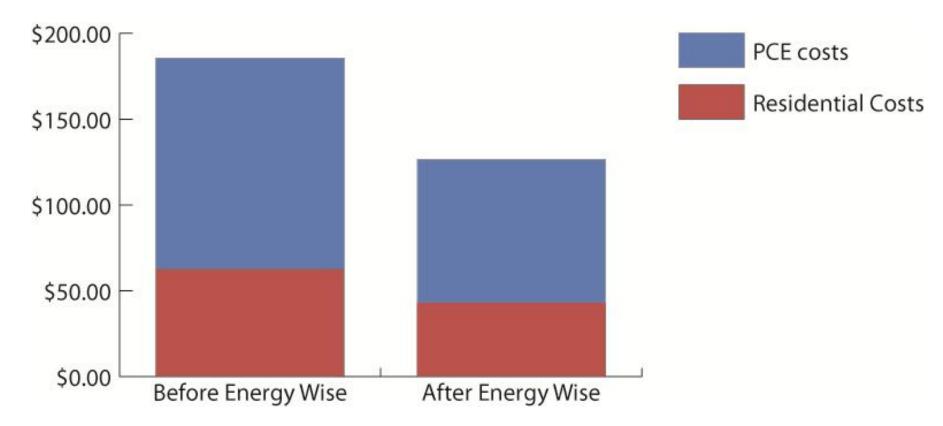
- Before Energy Wise: After Energy Wise:
 - □ \$186 = 287 kWh/month
 - □ \$63 paid by resident
 - □ \$123 covered by PCE

- - □ \$127 = 197 kWh/month
 - □ \$43 by resident = **\$20 savings**
 - □ \$84 by PCE = **\$39 savings**

After Energy Wise:

- 90 kWh/month reduction
- \$59 savings in resident and PCE electricity costs

Kasigluk 2010 Average Monthly Electrical Savings*



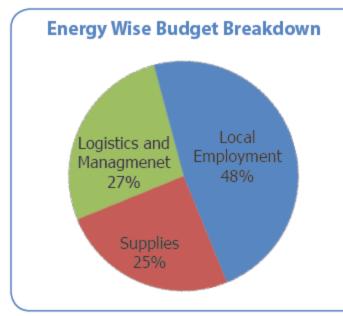
*Evaluation compiled by independent evaluator with AVEC data for Kasigluk 2009-2010; Energy Wise data reviewed by ISER

RETURN ON INVESTMENT BASED ON KASIGLUK STUDY

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ENERGY WISE BUDGET BREAKDOWN \$2,000/HOME



Communities Receive:

- Up to 10 locally hired crew members employed for 8-12 weeks, receiving Weatherization Tech I certification
- On site `Launch Week' for hiring and training local crews
- Energy Fair engaging residents, schools and organizations
- Homes receive:
 - Full day home visit from a trained, locally hired crew
 - Household energy/kilowatt consumption and cost assessment conducted with the resident
 - Education on energy cost-saving strategies
 - Home energy efficiency supplies installed (\$300 value)
 - Follow-up visit and survey about project results by crew member 2-3 months after initial home visit

NANA - ENERGY WISE 2011-12 PARTNERS

- NANA Regional Corporation
- Community Partners
- Northwest Arctic Borough
- Northwest Inupiat Housing Authority
- Denali Commission/Department of Labor
- U.S. Department of Energy, NREL
- Alaska Works Partnership

NANA - ENERGY WISE 2011-12 Outcomes

- 6 communities served: Ambler, Buckland, Kivalina, Noatak, Noorvik, and Shungnak
- 42 crew members received professional certification
- 50 crew members trained in energy efficiency and conservation techniques and community education
- 530 home visits; 99% participation rate
- Over 2,000 people received energy efficiency and conservation education and resources
- Energy bill savings

2011-12 OUTCOMES – SUSTAINED CHANGE

Results in NANA communities:

- Average electric bill the month before Energy Wise was \$312
- Average savings on electrical bill after the Energy Wise visit was \$35
- 82% reported that their homes felt warmer





Healthy People, Sustainable Communities, Vibrant Cultures

For more information, contact:

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