Tlingit and Haida Regional Housing Authority

Energy Cents Program

Tribal DOE Review

March 26th, 2014

Tasha McKoy

Regional Housing Authority
Program Overview

• Tlingit Haida Regional Housing Authority (THRHA) is the largest housing provider in Southeast, AK

• Program focus is small household energy efficiency upgrades and region wide energy conservation education

• Program deliverables:
  – Train 28 field assessors to conduct energy assessments in 400 homes throughout Southeast, AK
  – Energy fairs/community meetings in 14 communities
  – K-12 education
Project Deliverables (PDs)

- 28 field assessors conduct home assessments
400 Energy Usage Assessments (PDs)
Community Meetings & Energy Fairs (PDs)
Energy Fair Participants - Angoon
Hoonah and Juneau Fair
Energy Assessors and Kake Participant
Kake Energy Fair
Kake Vendors and Fair Workers
Door Prize Winner and Tlingit Dancers
Saxman Energy Fair
Saxman Participants
Saxman Energy Crew and Saxman Fair Songbird
Yakutat Energy Fair Tlingit Dancers
Leverage

- 81 donators,
- $21,193.00 in donated supplies
- $17,500 in cash donations
- This doesn’t include volunteerism, venues donations, presenter time, etc.!!

Statement of Project Objectives

1) Community Awareness and Education plan:
2.) Distribute and impart tenant information regarding Energy Cents work in the home
3.) Home energy assessment planning
Statement of Project Objectives

4.) Home assessments and Energy Cents Champion work
Statement of Project Objectives

5-a.) Home energy assessment results and recommendations:

<table>
<thead>
<tr>
<th>City</th>
<th>Household Count (n=225)</th>
<th>Avg. Residents per Home (n=206)</th>
<th>Avg. Therm. Setting, °F (n=177)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angoon</td>
<td>42</td>
<td>3.6</td>
<td>71.7</td>
</tr>
<tr>
<td>Hoonah</td>
<td>18</td>
<td>2.3</td>
<td>68.6</td>
</tr>
<tr>
<td>Kake</td>
<td>57</td>
<td>3.0</td>
<td>68.6</td>
</tr>
<tr>
<td>Juneau</td>
<td>30</td>
<td>3.0</td>
<td>67.3</td>
</tr>
<tr>
<td>Other Cities</td>
<td>78</td>
<td>2.5</td>
<td>68.5</td>
</tr>
<tr>
<td>Total Sample</td>
<td>225</td>
<td>2.9</td>
<td>68.9</td>
</tr>
</tbody>
</table>
5-b.) Home energy assessment results and recommendations:

49 percent of surveyed households rely on heating oil as the primary heating fuel, 22 percent rely on electric and 16 percent rely on wood.
5-c.) Home energy assessment results and recommendations:

Of the homes reporting a primary fuel, 44 percent report secondary heating systems. The most common secondary heating system for respondents is oil (36 percent) and electric (24 percent). About two-thirds of homes heated primarily by electricity and oil did not report a secondary heating system.
5-d.) Home energy assessment results and recommendations:

48 percent of the surveyed households reported never weatherizing their homes.
5-e.) Home energy assessment results and recommendations:

37 percent of surveyed homes reported at least one resident with asthma or an allergy.
6.) Update targeted communities on the results of the energy assessments.

_THRHA will send results of energy assessments to assessed households and tribal/city offices. If available, THRHA will also host an event to share details of survey results with community members._
7.) Compile data and final report.

THRHA will compile a final data report by end of grant period.

THRHA homes will have utilities data from 2011 (pre EC program) to 2014 (post EC program).
Because of Tribal DOE support...

- Youth, our most important asset

- ACEP K-12 Curriculum
- 2013 Energy Conservation Calendar Contest
- And...
Energy Hog Presentations-Kake, Angoon, Hoonah
Partnership Opportunities

- 1500 Energy Assistance clients receive energy kits
Partnership Opportunities

• Extended Energy Champion Work
Partnership Opportunities

- Save-Energy Save-Money Video with Thrive
Testimonials

• Thank you for what you offered for my hometown of Wrangell!! All the clients are happy by what we taught them and what we all learned- Byron Cady and Sue Stevens, EC Crew

• I never use too much heat, I never leave my lights on, but I will get rid of that damn toaster- Helen Adams, Hydaburg resident
Testimonials

• You helped me save energy and money, which will help my children learn how to conserve energy-Michelle Mingmins-EC client

• It teaches kids how important it is to be conscious of what is going on in the home, and I am able to pay my energy bill on time instead of being behind!-Lorena Cano EC client
Testimonials

- I learn little things matter. Lights matter, my home is not wasteful, but small things make a difference, I’m saving much more than before! - Harold Frank-EC client

- You are a blessing, thank you for your time. I save money now on my energy, I can afford to do more, I am happier. Henrich Kadake-EC client
Low-income Multifamily Energy Efficiency Building Audits-2014

Objectives

• Decrease energy demand by increasing energy efficiency for low-income multifamily buildings

• Reduce household energy consumption through energy conservation education and energy upgrades

• Project energy savings based on fossil fuel reduction to environmentally and economically benefit Tribal southeast communities.
Low-income Multifamily Energy Efficiency Building Audits-2014

• 50 + comprehensive EE audits, monitoring, and usage assessments on low-income multifamily buildings in 14 southeast Alaska communities

• Identify cost effective feasible weatherization options for building retrofits that can reduce energy consumption by 30% or more.

• Determine funding for buildings based on feasibility recommendations for energy upgrades /retrofits
Low-income Multifamily Energy Efficiency Building Audits-2014

• Local weatherization crew members trained to complete multifamily building energy audits

• Wx audits will produce comprehensive project plans sufficient for funding applications and implementation of multi-family energy efficiency measures
GUNALCHÉESH!