

Project Objective:

The primary objective for this project was to replace eleven, old non-compliant wood stoves in tribal homes in St. Mary's to increase efficiency and reduce human health risks associated with poor indoor air quality.

Results:

The Algaaciq Tribal Government identified homes in the community that were using non-compliant woodstoves. The CEDP grant allowed them to order and replace eleven more efficient, EPA compliant stoves. They also purchased floor boards, stacks and chimney brushes for each home. Pre and post surveys were conducted with each homeowner to find out whether the stoves were burning cleaner, using less wood, and provided enough heat for the home.

Benefits:

- Indoor and outdoor air quality has improved.
- Homeowners are healthier.
- The more efficient, cleaner burning stoves use less wood.
- Fire risk associated with older stacks had decreased.
- Local jobs were provided.

Lessons Learned:

- **What you see is not always what you get.** They researched the wood stoves very carefully, presenting the advertised dimensions to homeowners. When the stoves finally arrived, they were actually smaller than advertised and many homeowners were not happy.
- **Plan installation dates carefully.** When the stoves finally arrived, it was fishing and hunting season. There were also other construction jobs occurring in the community. It was difficult to find qualified workers to install the stoves.

For more information:

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ANTHC project website: <http://www.anthc.org/chs/ces/hve/2010-cedp-grants.cfm>

ALGAACIQ TRIBAL GOVERNMENT



Woodstove Change-out Project



Funding provided by ANTHC through the Community Environmental Demonstration Grant Program made possible with the Alaska Tribal Multi-Media Grant from the US EPA.



Work performed before February 1, 2010

- * In 2009, the Algaaciq Environmental Department conducted a house to house survey to determine how many homes were not using EPA compliant wood stoves.
- * Determined the number of eligible homes that would qualify for a new wood-stove.

Received CEDP funds from ANTHC and informed homeowners that stoves would be ordered.



Researched wood stoves and obtained several quotes from companies in Anchorage and Fairbanks.

Developed a homeowner agreement form that each head of household would have to sign before the wood stove installation could begin.

The stoves finally arrived. The tribe solicited the help from the City of St. Mary's to transport them to Tribes yard where all items were inventoried to ensure everything was received.



The wood stove installs begin.

Each of the eleven stoves were installed.

Prepared a powerpoint presentation about the project and presented during the 2011 BIA Provider's Conference.



BEFORE



AFTER

Feb. '10

March '10

April '10

May '10

June '10

July '10

Aug. '10

Sept. '10

Oct. '10

Nov. '10

Dec. '10

Jan. '11

Created a pre-installation questionnaire for homeowners to report the amount of wood they're using and how many times the stove needs to be stoked each day. The questionnaire was delivered to homeowners.



Picked up homeowner questionnaires

The wood stoves were purchased from the Woodway in Fairbanks. They were shipped to Nenana where they were stored until the spring barge was ready to depart.

Created and posted a job description to hire laborers to install the wood stoves. Applications were received and positions were filled.



BEFORE



AFTER

A post install questionnaire was created for each homeowner.

Woodstoves Purchased:

- * Dutchwest CDW244 from the Woodway in Fairbanks.
- The wood stoves were smaller than advertised. If you decide to do a similar project, research the selected stove well and ask the vendors a lot of questions.

Educational materials about proper wood burning techniques were distributed to each homeowner.



All of the post-install questionnaires were complete.

Updated powerpoint presentation to share during the 2011 Alaska Forum on the Environment.

* PROJECT TIMELINE *

Algaaciq Tribal Government
2010 Community Environmental Demonstration Project Grant