



# **National Energy & Utility Affordability Conference**

*Tribal Energy Track*

**GRAND RONDE TRIBAL HOUSING  
AUTHORITY**

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# What is weatherization?

**Assessing a home to determine current energy usage, finding methods to reduce energy costs through repairs, replacement or conservation measures.**

*Any or all of the following may be included in a weatherization project:*

- 1. Installing or adding to existing components, such as insulation, weather stripping, compact fluorescent lights, insulating water heater, plug insulators*
- 2. Replacement of components; older furnace with Heat Pump, double pane windows for older single pane or aluminum style, new insulated doors*
- 3. Determining locations of heat loss and moisture intrusion in the process, crawlspace challenges, duct failures, health and safety measures, etc.*
- 4. Replacing inefficient household appliances*

# **Tribal Considerations for starting a Weatherization program**

- Tribal Council support
- Department willing to take on the work
- Staff capacity
- Local training and support
- Cooperation with federal agencies, state, counties, cities and other Tribes
- Funding
- Sovereignty considerations

# Grand Ronde Tribal Housing Authority Weatherization Program

- *GRTHA has five different programs to offer Tribal members home improvements and repairs:*

- Weatherization Program/LIHEAP  
(ten county service area)
- TEEPEI – Tribal and HUD funded  
Weatherization and Micro Energy Generation  
(six counties)
- Home Repair Grants (3 states)
- Medical Adaptation Grants (U.S.)
- Sanitation Program –  
Indian Health Services service area



## Partnership with Community Action Programs is Important !



Low-Income County Weatherization Organizations and the Grand Ronde Tribal staff work together to add extra benefits to Home remodeling projects



- The Duct Blaster helps find the leaks in furnace ducts
- Studies indicate duct sealing is a very effective energy saving measure



Blower Door Tests  
Determine Minimum  
Ventilation Levels, and  
location of air leaks



...and where the  
cold air is originating



# Determining priorities can be difficult....





After



Singlewide Manufactured Home Receives a New Roof  
Under the New EPDM Roof is a 4" Solid Core Styrofoam Insulation

# GRTHA Home Repair with Weatherization Components

Before

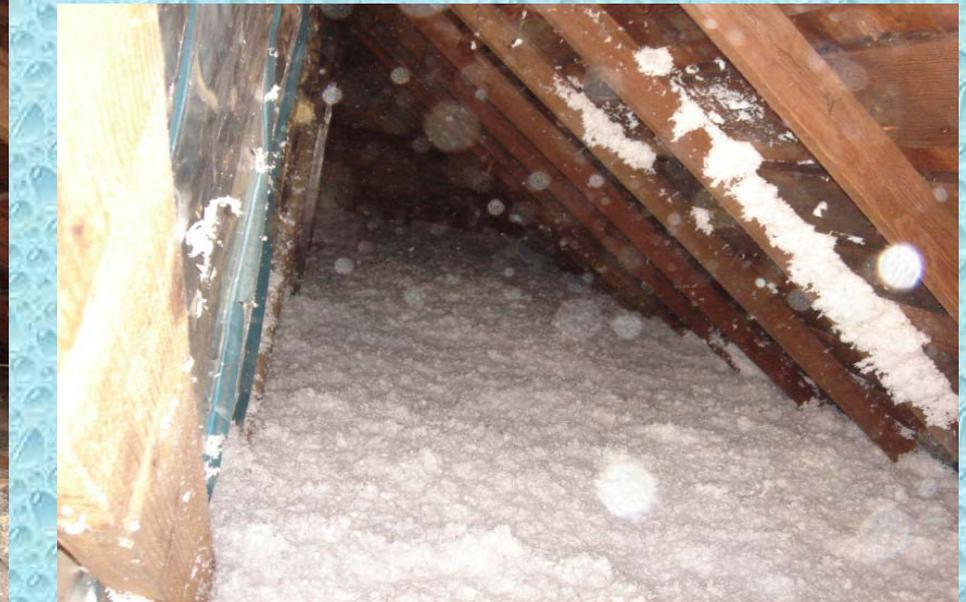


After

**Before**

**&**

**After**



*Assuring proper insulation is one of the most important parts of a weatherization program !*



# Accessible Bathroom Adaptations

- Grab Bars and Hand Held Shower Nozzles
- Conversion to Step-in Showers
- Shower Chairs and Handicap Toilets
- Low cost measures if funding limits; shower chairs, toilet adaptors, alternate faucets, tub cuts instead of roll in showers, etc.



# GRTHA: Medical Adaptation Example



**Before**



▶ **After**

# GRTHA: Weatherization Program History

- The Grand Ronde Tribe applied directly to Federal Government for LIHEAP, not as a State sub-recipient
- Six weatherization grants per year based on LIHEAP only funds (\$17-18,000, average \$3500 per project)
- Added HUD IHBG and Tribal funding in 2009 to serve more Tribal families, and not be constricted by LIHEAP income and funding limitations
- Improvements related to saving energy, primarily insulation, exterior doors, windows, HVAC improvements

# TEEPEI

## Tribal Energy Efficiency Program through Education and Innovation

- Serving the Grand Ronde Tribal membership in three ways:
  - Phase One – Education through Energy Savings Workshops and Energy Saver Kits nationwide
  - Phase Two – Saving energy through weatherization (six county area), technical assistance and direct grants to \$3,500
  - Phase Three – Energy generation projects for single family homes, technical assistance and direct grants to \$15,000, match required for maximum grant amounts



# TEEPEI

- A streamlined application for the Energy Kit & Energy Education Services
- A full application for the Weatherization and Alternative Energy projects
- Match of \$5,000 to receive \$15K funding



# Every Tribe can do Weatherization!

- Benefits include
  - Lower energy bills for low-income families
  - Opportunities to replace old appliances
  - Safer homes for Tribal members with health conditions
  - Job training and economic development
  - Self sufficiency and education for families
  - More cost efficient Tribal housing projects

# What will the future bring?

Anything's possible....



THE END



Thank you for your attention!