

MFA Legislative Oversight Committee

August 14, 2018



**NM Energy\$mart  
Weatherization  
Assistance Program  
2018-2019**



# MFA WAP Contact Information



## NM Energy\$mart Weatherization Assistance Program

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# Why is weatherization beneficial?

- Reduces utility bills to households in need
- Improves health and safety conditions
- Lowers total energy usage
- Furnaces replaced
- Ventilation Fans
- Gallons of Water Saved
- Most Importantly...  
Occupants have a sense of dignity about the home in which they reside



# Weatherization is....

A U.S. Department of Energy (DOE) funded program.

- ✓ **Reduces energy costs** for low-income families
  - Elderly
  - People with disabilities
  - Children
- ✓ Improves the energy efficiency of their homes
- ✓ Ensures their **health and safety**.

# Weatherization Measures

## Typical Weatherization Measures Installed



### MECHANICAL MEASURES

- Clean, tune, repair, or replace heating and/or cooling systems.
- Install duct and heating pipe insulation.
- Install programmable thermostats and other HVAC controls.
- Repair/replace water heaters.
- Install water heater tank insulation.
- Insulate water heating pipes.
- Install solar water heating systems.
- Install waste heat recovery devices.



### HEALTH & SAFETY MEASURES

- Complete combustion appliance safety testing.
- Repair/replace vent systems to ensure combustion gas draft safely outside.
- Install mechanical ventilation to ensure adequate indoor air quality.
- Assess fire hazards. Install smoke and carbon monoxide alarms when needed.
- Evaluate mold/moisture hazards.
- Perform incidental safety repairs when needed.



### BUILDING SHELL MEASURES

- Install wall, floor, ceiling, attic, and/or foundation insulation.
- Complete Blower Door Testing.
- Perform air sealing.
- Repair/replace primary windows/doors.
- Install storm windows/doors.
- Install window film/solar screens/window louvers and awnings.
- Repair minor roof and wall leaks prior to attic or wall insulation.



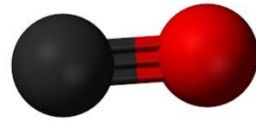
### ELECTRIC BASELOAD MEASURES

- Install motor controls.
- Install efficient light sources.
- Replace refrigerators and freezers with energy efficient models.

# Furnace/Heating System Replacement

- Replacement is cost effective
  - ✓ Cost to install unit is less than what the unit costs the occupant to operate over the expected lifetime
- Old unit is unsafe
  - ✓ High levels of carbon monoxide, fire dangers, mechanical dangers
- Old unit is inoperable
  - ✓ Occupants end up using kitchen stove to heat home

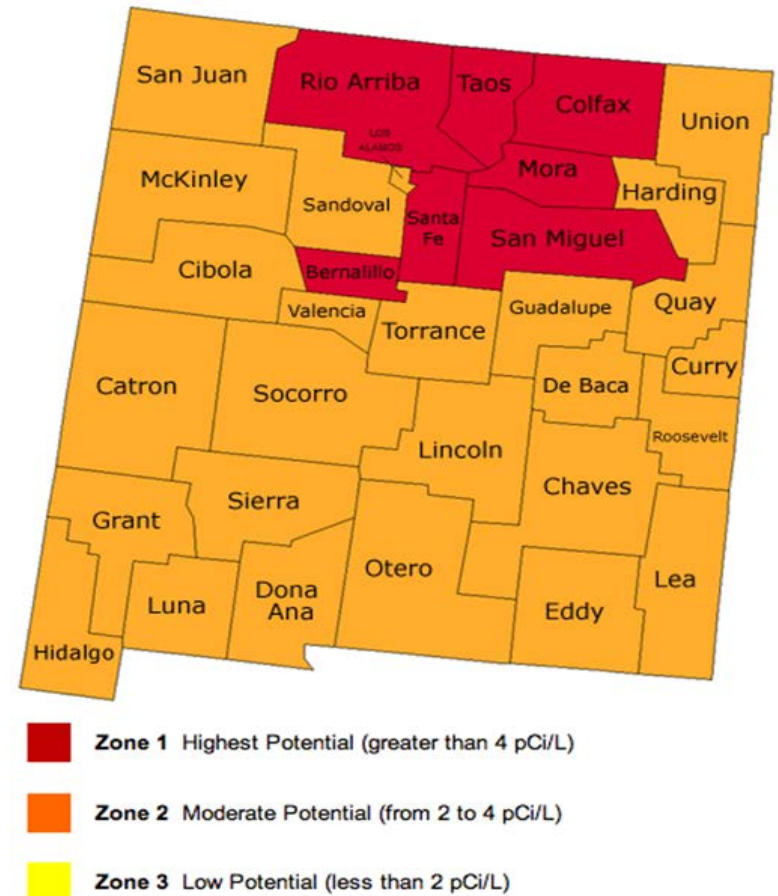
Improves health and safety by eliminating hazards such as carbon monoxide, unvented space heaters, clients using ovens to heat home, and moisture issues



# Ventilation Fans and Radon

New Mexico has installed over 1000 ventilation fans with this program

✓ 12 percent radon reduction



[http://weatherization.ornl.gov/Retrospectivepdfs/ORNL\\_TM-2014\\_367.pdf](http://weatherization.ornl.gov/Retrospectivepdfs/ORNL_TM-2014_367.pdf)



# Annual Gallons of Water Saved

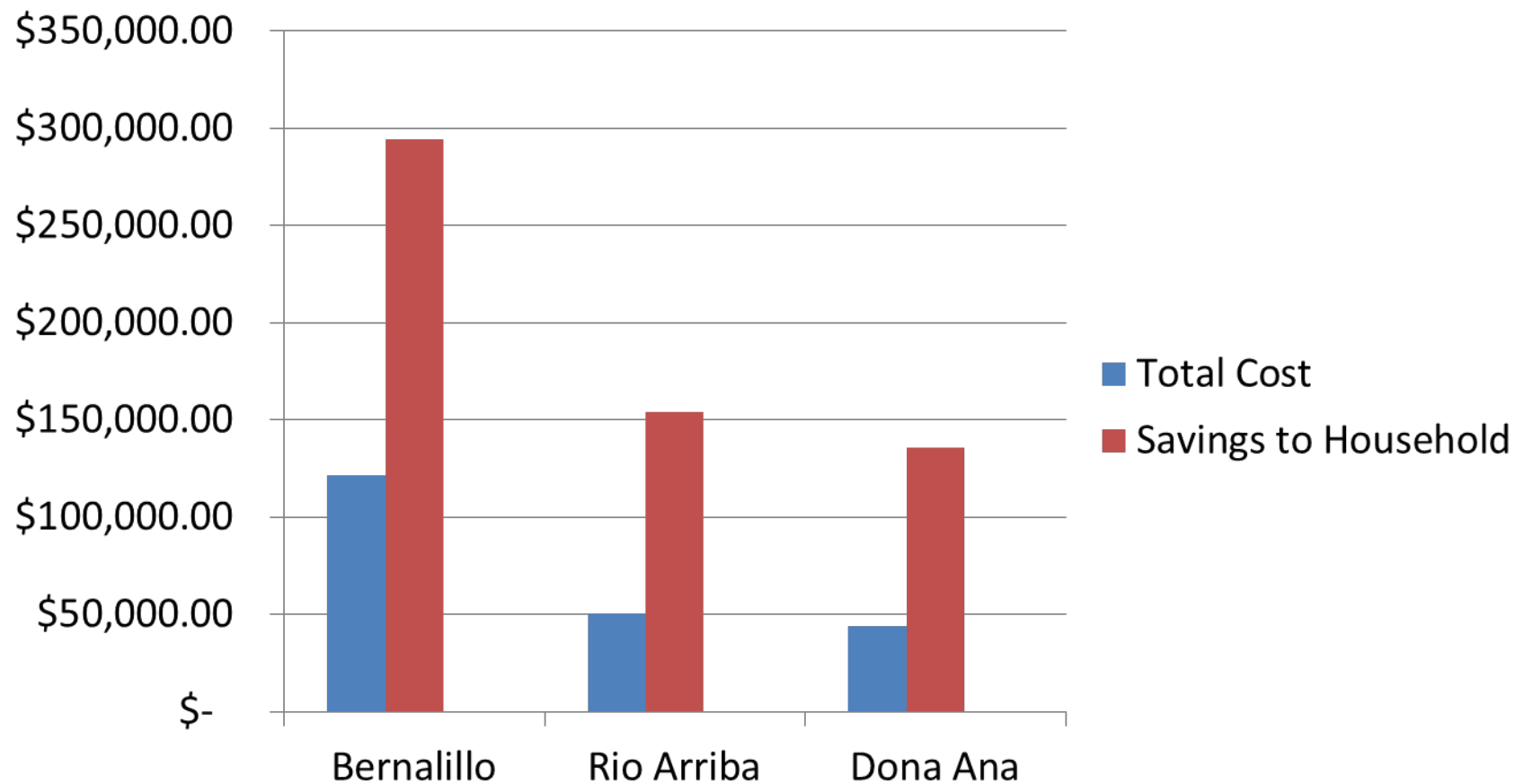
## Annual Gallons of Water Saved

- Installation of water saving Showerheads save 1.5 Gallons Per Minute (GPM)
- Installation of water saving aerators save 1.0 Gallons Per Minute (GPM)
- Reduction from existing 2.5 GPM or higher
- **Over 4,000,000** annual average of gallons saved

## Annual Gallons of Water Saved determined by:

- Average number of occupants per household
- Total units retrofitted
- Continues to add up over time

# Energy Bill Reduction savings vs. cost for a combination of refrigerators, insulation and duct sealing



# Average Annual Dollars Saved for New Mexico Residents

**\$250**

- Average Annual Dollars Saved are estimated by using energy modeling software
- Fuel source and current cost determines value
- Does not take into account behavioral changes, societal benefits, health and safety benefits

# Allocation Ranking

- Order of service depends on client ranking
- Federal Regulations determine the criteria used to rank households
  - ✓ Disabilities
  - ✓ Children
  - ✓ Elderly
  - ✓ High energy usage

# Available Units by County

- Available units are dependent on funding levels and allocation formulas
- Allocation formulas take into consideration
  - ✓ Levels of poverty
  - ✓ Disabled, elderly, and children that are members of household
  - ✓ Heating degree days
  - ✓ Total population in each county
- Per unit average of \$6,000 is used for the formulas

# NM Energy\$mart Funding

- DOE funding is combined with multiple funding sources to maximize the help available to New Mexico households.

- Total funding for 2018-2019: **\$6,051,102.00**

✓ DOE	\$2,125,643.00
✓ LIHEAP	\$2,351,250.00
✓ NM Gas	\$1,298,734.00
✓ PNM	\$ 206,225.00
✓ CDBG (Weatherization)	\$ 34,250.00
✓ Central Valley Electric Co-Op	\$ 35,000.00

# Need vs. Available Funding

Current households on waiting list

2172

Number of households that can be served  
this year with available funding

604

# New Funding: CDBG

MFA received a total of \$500,000 in CDBG funding to be used in The Colonias of New Mexico.

- \$34,250.00 Allocated to NM EnergySmart Weatherization Program
  - ✓ Energy efficiency upgrades to 34 homes
- \$60,250.00 Allocated to HOME Rehabilitation Program
  - ✓ Moderate rehabilitation to 10 homes
- \$150,250.00 Allocated for Accessibility Improvements to 13 homes
- \$240,250.00 Allocated for New Roofs to 20 homes

*Remaining \$15,000.00 will be allocated to the Service Provider agencies and MFA for Administrative Costs.*



# Other Funding Opportunities: Outreach

- Utility companies
  - ✓ Interest in energy savings for PRC requirements
- Non federal grants
  - ✓ Counties or other interest groups
  - ✓ Potential State of NM funding
- Veteran Home Rehabilitation Grant
  - ✓ MFA has applied for a \$2 million grant for veterans that will assist with an additional 190 homes to be serviced through weatherization and rehabilitation programs.

# Nationally Recognized Success

- The NM Energy\$mart Weatherization Program is asked to present various weatherization topics at national conferences
- DOE recently recognized The NM Energy\$mart Weatherization Program for having some of the “best practices” in the country
- NM Energy\$mart Academy
  - ✓ Funded during American Recovery and Re-investment Act (ARRA)
  - ✓ The Academy still exists and is thriving by also training other states



# Questions

- 1.
- 2.
- 3.
- 4.
- 5.

# Thank you Legislative Oversight Committee

