

NM Energy\$mart

Improving energy efficiency and reducing utility expenses for low-income households

Typical Home Energy Efficiency Treatments

- **Air Seal the Building Envelope**
 - Seal Holes
 - Damper Repairs
 - Attic Vents
 - Ceiling Repairs
 - Glass Replacement
 - Wall Repairs
 - Ceiling Repairs
- **Seal Heating System Ducts**
- **Insulate Ducts**
- **Attic Insulation**
- **Wall Insulation**
- **Crawlspace Insulation**
- **Insulate Hot Water Pipes**
- **Insulate Hot Water Tank**
- **Install Low-Flow Shower Heads**
- **Install CFL Light Bulbs**
- **Replace Inefficient Refrigerators**
- **Install Carbon Monoxide Detector**
- **Install Smoke Detectors**
- **Fresh Air Ventilation**
- **Water Heaters Repairs**
- **Furnace Repairs**
- **Water Heater Replacement**
- **Furnace Replacement**

Low-income households spend a disproportionate amount of their income on energy expenses.

Low-income households may spend up to 17 percent of their gross income on utility costs, compared to 4 percent for middle-income households. Many homes that are not energy efficient also have significant health and safety issues.

MFA's NM Energy\$mart program reduces energy costs for low-income families by weatherizing their homes at no cost.

Households with incomes up to 200 percent of the federal poverty level – about \$47,700 for a family of four -- qualify for the NM Energy\$mart program. Households where young children, elderly, handicapped individuals live are given priority in the program. Qualified homes receive an average of \$5,500 in weatherization services.

Families whose homes have been weatherized save up to 35 percent on utility costs each year for 20 to 25 years.

Over the last five years, 9,470 New Mexico homes have been weatherized. Families living in those homes will save an average of \$437 per year over the next 20 to 25 years. Weatherization decreases national energy consumption by the equivalent of 24.1 million barrels of oil annually and reduces residential and power plant emissions of carbon dioxide by 2.65 metric tons per year per home.

Despite the need and demand for weatherization, funding is declining.

Since 2011, federal funding for NM Energy\$mart has been cut by 35 percent. According to the 2012 American Community Survey approximately 291,354 New Mexico households qualify for NM Energy\$mart. No funding has been received from the state of New Mexico since 2009. If \$1 million of state funding is received, it will be leveraged five to one with other funding sources.

Energy Efficiency Treatments 1821 South Granite, Deming

Measure	Cost	**SIR	Annual Savings
Duct Sealing	\$200	1	\$25
Air Sealing	\$200	1.2	\$29
Attic Insulation	\$1,300	1.4	\$114
Low Flow Showerhead	\$55	35.7	\$151
Compact Fluorescent Lamps	\$40	17.5	\$115
Pipe Insulation	\$15	7.3	\$9
Water Heater Insulation	\$35	4.1	\$12
Wall Insulation	\$270	1.5	\$25
Smart Thermostat	\$50	1.4	\$6
Refrigerator Replacement	\$655	1.1	\$63
*Carbon Monoxide Detector	\$100		
*Kitchen Exhaust Fan	\$515		
*Smoke Detectors	\$60		
*Mechanical Ventilation	\$220		
*Furnace Replacement	\$2,000		
Total	\$5,715		\$549

*Health and safety measures

**Savings-to-return ratio

Olga Montiel-Echerivel is a single mother of three who has always worked two jobs to make ends meet. The daughter of Mexican immigrants, Olga is determined to overcome poverty by completing her education. She is on track to graduate from Western New Mexico University with a degree in social work in 2017. However, being a full-time student means Olga can only work a part-time job, which pays \$8 per hour.

In addition to her 11-year-old son, Olga's 24-year-old daughter, son-in-law and grandson live with her. Her son-in-law developed lymph node cancer as a child and must travel to El Paso monthly for treatment and testing. He is only able to work part time.

The combined annual income of the Montiel-Echerivel household is \$27,480. Although the family restricts its energy use, their utility bills average \$300 per month.

Energy Efficiency Treatments 1201 Tennyson Drive

Measure	Cost	**SIR	Annual Savings
Floor Repair	\$82	Incidental	repair
Duct Sealing	\$147	1.2	\$22
Air Sealing	\$147	1.2	\$21
Low Flow Showerhead	\$34	35.7	\$26
Compact Fluorescent Lamps	\$50	16	\$102
Pipe Insulation	\$12	8.5	\$10
Water Heater Insulation	\$33	12.6	\$38
Belly Insulation	\$104	1.2	\$23
Refrigerator Replacement	\$601	1.3	\$71
Dryer Venting Correction	\$28		
*Carbon Monoxide Detector	\$58		
*Kitchen Exhaust Fan	\$319		
*Smoke Detectors	\$27		
*Mechanical Ventilation	\$379		
*Furnace Replacement	\$1,480		
Total	\$3,501		\$313

*Health and safety measures

**Savings-to-return ratio

Nadine Zobell was married the first time at age 14 and had a child on Christmas Day. Her husband committed suicide the day after the baby was born. The baby died a few days later.

Nadine found work with a family in Utah, taking care of three small children. The children's mother soon abandoned the family. Several months later, Nadine married their father, who she was married to for 47 years.

When her husband died 15 years ago, Nadine found work at an RV center in Beaver Dam, Arizona. She moved to Deming five years ago after she was diagnosed with colon cancer in order to be near her brother.

Frail and elderly, the only heat Nadine had in her home was what she could generate from her oven. She spent many cold, sleepless nights until her home was weatherized. Last winter, Nadine called almost every week to thank the weatherization crew for another warm, sleep-filled night.