

SMUD Home Energy Makeover Sweepstakes

Home Energy Makeover Winner

The Dolliver Home in Sacramento, CA

Robert and Brenda Dolliver live in an 1850 square foot home that was built in 1978. When they moved in 7 years ago, they noticed that the house was uncomfortable and the utility bills were high but, they weren't sure what to do about it. Since the makeover, the temperature is the same in every room and they don't need to curl up with blankets and use an electric space heater to keep warm. And, best of all, Robert finds his home pleasant to breathe in and no longer notices allergy symptoms.



Their Home Energy Makeover

COMPREHENSIVE HOME ASSESSMENT

A comprehensive home energy assessment was conducted to provide a complete evaluation of the Dolliver's home energy use. The energy assessment included a blower door test, duct leakage test, combustion safety test, and visual assessment. It was determined that the Dolliver's could increase their comfort and decrease their utility costs through insulation, air sealing measures, and mechanical system upgrades.

INSULATION with AIR SEALING

In the attic, All Year and Clarke & Rush Mechanical provided the air sealing, worked on the baffling and provided insulation damming resulting in a 65% reduction in air leakage. 5 Star Insulation removed the existing R-5 attic insulation in order to properly air seal the space, and then provided and installed R-50 blown cellulose insulation. Additionally, Air Tek built a three foot vertical attic knee wall to provide additional insulation opportunity and built catwalks 15 inches off the attic floor to allow for future service technicians to access the area without disturbing the new cellulose insulation.

CRAWLSPACE

In the home's crawlspace, All Year and Gold Star Insulation installed the vapor barrier (a layer of material (thin plastic) used to retard or prevent the absorption of moisture by another substance) over the soil that was essential for the durability and health of the home.

Clarke & Rush Mechanical provided the material for the ducting and framing. Sam MacGreggor Sheet Metal provided the sheet metal work and high performance ducting parts to ensure peak efficiency.

HEATING & COOLING

Sierra Pacific removed and replaced the old 20% efficient HVAC and duct system with a new 1.5 ton electric heat pump system provided by Lennox Industries. The new system was carefully designed and planned to be more efficient and lower the electrical operating costs of the furnace. A Lennox Comfort Sense 7000 programmable thermostat that can be set up for occupied and unoccupied times to allow for even more energy savings was also installed.

HOT WATER HEATER

Energy Resolutions replaced the existing hot water system with a 40 gallon high-efficiency electric water heater and provided the dry wall repairs to the project.

ELECTRICAL UPGRADES

SCP Solar & Green Construction repaired and upgraded the existing wiring in the home to ensure safety protocols and installed and provided the materials for running the electric to the new location of the air conditioner, in addition, installed the new floor register locations.

PROJECT COORDINATION

DeMaranville Construction provided the project work scope, contractor coordination, HVAC sizing, duct design, and worked alongside the contractors throughout the implementation of the homes upgrade.

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Improvement Package

Air Sealing & Insulation Package
HVAC System & Installation
Duct Configuration & Sealing
Hot Water Heater & Installation
Electrical Repairs & Upgrades

Total Cost of Contributions = **\$22,000**

SMUD Makeover Team



General Contracting and Construction was provided by

DeMaranville Construction, (530) 272-7575, www.demaranvilleconstruction.com



Air Sealing was provided and installed by

All Year, 916-922-7796
www.allyearah.com

Clark & Rush Mechanical, 916-609-2665
www.clarke-rush.com



Vapor Barrier was provided by

Gold Star Insulation, 916-928-1100
www.goldstarinsulation.com

installed by

All Year, 916-922-7796
www.allyearah.com



Insulation was provided and installed by

5 Star Insulation, 916-922-7796, www.5starinsul.com



HVAC System provided by

Lennox Industries, www.lennox.com

installed by

Sierra Pacific Home & Comfort
800-551-3040 www.sierrapacifichome.com



Hot Water System provided and installed by

Energy Resolutions, 888-986-0006, www.energyresolutionsnow.com



Electrical Services provided by

SCP Solar & Green Construction, 916-436-6338, www.scpsolargreenconstruction.com

Air Tek

Miscellaneous Construction was provided by

Air Tek, airtekres@frontiernet.net



Contest Administration

CBPCA & EGIA