

Solar vs. Efficiency

An Example of a Typical home

Home

- Age 1958
- Size: 2,200 ft
- Annual Electric: \$1,115
- Annual Gas: \$1,013

Home Condition

- Infiltration: 3405 CFM50 (.69 ACH)
- Attic Insulation R 6.4 fiberglass Batt (low quality)
- Wall Insulation: No Insulation
- Floor Insulation: No Insulation
- Duct Leakage: 25%

Solar vs. Efficiency

Option 1: Efficiency Retrofit

Energy Efficiency Retrofit Benefits

- 25% Reduction in Electricity
- 54% Reduction in Natural Gas
- Improved Health and Comfort

40% Reduction in Energy Bills

Work Scope

- Duct Sealing
- Air Sealing
- Attic Insulation
- Wall Insulation
- Lighting Retrofit
- Energy Star Refrigerator



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Option 2: Solar Electric System

Solar Electric System Benefits

- 73% Reduction in Electricity
- 0% Reduction in Natural Gas
- No Improved Health or Comfort
- Peak Load Reduction

40% Reduction in Energy Bills

Work Scope

- 3.5 kW Solar PV



Solar vs. Efficiency

What is the Real Cost?

	Solar Electric	Efficiency	
Annual \$ Savings	\$825	\$825	Savings equal
Other Benefits	None	Comfort	Efficiency has secondary benefits
Total Cost	\$28,000	\$10,800	Efficiency costs 60% less
Simple Payback	33.9 yrs	13.6 yrs	Efficiency has 60% Faster Payback