

# Energy Comparisons

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| <p><b>Case study #1</b></p>  | <p><b>Sacramento, CA</b><br/> <b>Comparable single story 2,400 square foot homes</b><br/> <b>Several addresses apart on same side of street</b><br/> <b>Gas and electric bills Feb to Dec, 2003</b></p>   |   |
| <p>Traditionally insulated home:</p> <ul style="list-style-type: none"> <li>• Utility bills</li> <li>- \$2,239 electric</li> <li>- <del>\$477 gas</del></li> <li>- \$2,716 total</li> <li>• Monthly average utilities</li> <li>- \$247</li> <li>• Average utility prices</li> <li>- Gas \$0.95 per therm</li> <li>- Electric \$0.17 per kWh</li> </ul> | <p>Closed-cell spray foam insulated:</p> <ul style="list-style-type: none"> <li>• Total gas and electric</li> <li>- \$1,107 electric</li> <li>- <del>\$306 gas</del></li> <li>- \$1,413 total</li> <li>• Monthly average utilities</li> <li>- \$128</li> <li>• Average utility prices</li> <li>- Gas \$0.93 per therm</li> <li>- Electric \$0.13 per kWh</li> </ul> | <p>Closed-cell spray foam energy savings:</p> <ul style="list-style-type: none"> <li>• 48% reduction in utility bills</li> <li>- \$118 per month average savings</li> <li>- \$1,422 per year; \$42,645 over 30 years</li> <li>• How much extra financing could you afford on a 30 year mortgage with an extra \$118 per month?</li> <li>- \$19,758 at 6%</li> <li>- \$17,805 at 8%</li> </ul> |

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| <p><b>Case study #2</b></p>  | <p><b>Roanoke, VA</b><br/> <b>2,240 square foot ranch</b><br/> <b>Liquid propane gas heat</b><br/> <b>Low fuel consumption got supplier's attention</b><br/> <b>Monitored propane usage Aug '00 to Jul '01</b></p> |   |
| <p>Ten similar homes with traditional insulation:</p> <ul style="list-style-type: none"> <li>• Total propane consumption</li> <li>- Average was 769 gallons</li> </ul> | <p>Closed-cell spray foam insulated:</p> <ul style="list-style-type: none"> <li>• Total propane consumption</li> <li>- 321 gallons</li> </ul>  | <p>Closed-cell spray foam energy savings:</p> <ul style="list-style-type: none"> <li>• 58% reduction in propane usage vs. average of ten comparable homes</li> <li>- 30% savings vs. next best home</li> <li>- 74% savings vs. worst home</li> <li>• Estimated savings</li> <li>- \$896/yr with propane at \$2 per gal</li> <li>- Mortgage value of \$12,444 at 6%</li> </ul> |

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| <p><b>Case study #3</b></p>  | <p><b>Atlanta, GA</b><br/> <b>Comparable residences 1,800 sq. ft.</b><br/> <b>Less than two miles apart</b><br/> <b>Similar occupancy</b></p>                                 |   |
| <p>Traditionally insulated home:</p> <ul style="list-style-type: none"> <li>• Monthly average utilities</li> <li>\$143.76</li> <li>• Cost of insulation \$2,350</li> </ul> | <p>Closed-cell spray foam insulated:</p> <ul style="list-style-type: none"> <li>• Monthly average utilities</li> <li>\$89.64</li> <li>• Cost of insulation \$5,200</li> </ul> | <p>Closed-cell spray foam energy savings:</p> <ul style="list-style-type: none"> <li>• 38% reduction in utilities</li> <li>- \$54.12 per month average saving</li> <li>• Added mortgage cost \$2,850</li> <li>- \$17.10 per month added mortgage payment at 6% interest</li> <li>• Extra cash in homeowner's pocket</li> <li>\$37.02 per month</li> </ul> |