# **Energy Comparisons**

Traditionally insulated home:

- Utility bills
- -\$2,239 electric

Case study #1

- -\$477 gas
- -\$2,716 total
- Monthly average utilities
- -\$247
- Average utility prices
- -Gas \$0.95 per therm
- -Electric \$0.17 per kWH

## Sacramento, CA

Comparable single story 2,400 square foot homes Several addresses apart on same side of street Gas and electric bills Feb to Dec, 2003

Closed-cell spray foam insulated:

- Total gas and electric
- -\$1,107 electric
- -\$306 gas
- -\$1,413 total
- Monthly average utilities
- -\$128
- Average utility prices
- -Gas \$0.93 per therm
- Electric \$0.13 per kWH

Closed-cell spray foam energy savings:

- 48% reduction in utility bills
- -\$118 per month average savings
- -\$1,422 per year; \$42,645 over 30 years
- How much extra financing could you afford on a 30 year mortgage with an extra \$118 per month?
- -\$19,758 at 6%
- -\$17,805 at 8%

### Case study #2

Roanoke, VA
2,240 square foot ranch
Liquid propane gas heat
Low fuel consumption got supplier's attention

Low fuel consumption got supplier's attention Monitored propane usage Aug '00 to Jul '01

Ten similar homes with traditional insulation:

- Total propane consumption
- Average was 769 gallons

Closed-cell spray foam insulated:

- Total propane consumption
- -321 gallons

Closed-cell spray foam energy savings:

- 58% reduction in propane usage vs. average of ten comparable homes
  - -30% savings vs. next best home
- -74% savings vs. worst home
- Estimated savings
- -\$896/yr with propane at \$2 per gal
- -Mortgage value of \$12,444 at 6%

#### Case study #3

Atlanta, GA
Comparable residences 1,800 sq. ft.
Less than two miles apart
Similar occupancy

Traditionally insulated home:

- Monthly average utilities \$143.76
- Cost of insulation \$2,350

Closed-cell spray foam insulated:

- Monthly average utilities \$89.64
- Cost of insulation \$5,200

Closed-cell spray foam energy savings:

- 38% reduction in utilities
- -\$54.12 per month average saving
- Added mortgage cost \$2,850
- -\$17.10 per month added mortgage payment at 6% interest
- Extra cash in homeowner's pocket
   \$37.02 per month

Source: Available upon request.