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“Shape Of Things to Come

How High Natural Gas Prices Will Effect the
Cost-Effectiveness of Energy Improvements



Price of Fuel

\$/KWH = .067

\$/Therm = .661



BUILTWRIGHT, INC.

SEEKING HIGH PERFORMANCE HOUSING

House #1

40x28 Ranch Over Slab

- # As Is to Upgrade
- # House Score: As is 80.4 Upgrade 87.1
 - Features
 - NACH 0.50 to 0.35
 - Slab Edge 0 to R-5
 - 2x4 Wall R-15
 - Windows U - 0.50 SHGC 0.62 to U - 0.35 SHGC 0.35
 - Ceiling R-30 to R-38
 - Furnace AFUE 80% to 92%
 - H2O EF 0.53 to 0.62
 - With pipe and tank wrap 0.66
 - Ducts Leaky to tight
 - AC 10 SEER to 12 SEER



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House #1 Slab

General Numbers

- # House Score: As is 80.4 Upgrade 87.1
- # Installed Cost of Improvements \$2544.00
- # Present Value \$3000.41
- # Total Fuel Use Therms 778 Cut to 610
- # Heating Fuel Use Therms 378 Cut to 267
- # Total Fuel Savings Therms 168 Improved to 321
- # Total Fuel Cost Savings \$111.00 Improved to \$212.00



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House #1 Slab

Specific Upgrade Numbers

- # H2O: C/B 6.20, PV \$437.90, \$150.00
- # NACH: C/B 5.71, PV \$341.34, \$90.00
- # Ceiling R-38: C/B 2.59, PV \$654.57, \$537.00
- # Window: C/B 2.11, PV 426.81, \$430.00
- # Slab Edge: C/B 2.07, PV \$170.66, \$175.00
- # Ducts: C/B 1.47, PV \$219.27, \$225.00
- # Furnace: C/B 1.29, PV \$441.94 , \$625.00
- # AC: C/B .14, PV \$29.94 , \$312.00



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House #2

40x28 2 Story Over Crawl

- # As Is to Upgrade
- # House Score: As is 80.3 Upgrade 87.6
 - Features
 - NACH 0.50 to 0.35
 - Vented Crawl to Un-vented Crawl
 - Perimeter R-11
 - 2x4 Wall R-15
 - Windows U - 0.50 SHGC 0.62 to U - 0.35 SHGC 0.35
 - Ceiling R-30 to R-38
 - Furnace AFUE 80% to 92%
 - H2O EF 0.53 to 0.62
 - With pipe and tank wrap 0.66
 - Ducts Leaky to tight
 - AC 10 SEER to 12 SEER



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House #2 Crawl

General Numbers

- # House Score: As 80.3 is Upgrade 87.6
- # Installed Cost of Improvements \$3181.00
- # Present Value \$5771.17
- # Total Fuel Use Therms 1685 Cut to 729
- # Heating Fuel Use Therms 1102 Cut to 517
- # Total Fuel Savings Therms 329 Improved to 582
- # Total Fuel Cost Savings \$217 Improved to \$384



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House #2 Crawl

Specific Upgrade Numbers

- # H2O: C/B 9.60, PV \$677.89, \$150.00
- # NACH: C/B 5.35, PV \$636.81, \$179.00
- # Window: C/B 3.16, PV 1280.80, \$860.00
- # Ducts: C/B 2.93, PV \$438.92, \$225.00
- # Ceiling R-38: C/B 2.58, PV \$654.58, \$538.00
- # Furnace: C/B 2.54, PV \$871.28 , \$625.00
- # AC: C/B .58, PV \$119.62 , \$312.00
- # Warm Crawl / Vapor Barrier: C/B 0.24, PV 43.47, \$392.00



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House # 3

40x28 2 Story Over Basement

As Is to Upgrade

House Score: As is 80.7 Upgrade 87.8

- Features

- NACH 0.50 to 0.35
- Basement R-11
- 2x4 Wall R-15
- Windows U - 0.50 SHGC 0.62 to U - 0.35 SHGC 0.35
- Ceiling R-30 to R-38
- Furnace AFUE 80% to 92%
- H2O EF 0.53 to 0.62
 - With pipe and tank wrap 0.66
- Ducts Leaky to tight
- AC 10 SEER to 12 SEER



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SEEKING HIGH PERFORMANCE HOUSING

House #3 Basement General Numbers

- # House Score: As is 80.7 Upgrade 87.8
- # Installed Cost of Improvements \$3004.00
- # Present Value \$6842.38
- # Total Fuel Use Therms 1104 Cut to 806
- # Heating Fuel Use Therms 796 Cut to 559
- # Total Fuel Savings Therms 406 Improved to 704
- # Total Fuel Cost Savings \$289 Improved to \$530



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House #3 Basement

Specific Upgrade Numbers

- # H2O: C/B 11.20, PV \$791.34, \$150.00
- # NACH: C/B 5.17, PV \$924.26, \$269.00
- # Ducts: C/B 3.13, PV \$468.74, \$225.00
- # Window: C/B 3.05, PV 1236.79, \$860.00
- # Ceiling R-38: C/B 2.64, PV \$669.30, \$538.00
- # Furnace: C/B 2.72, PV \$934.32, \$625.00
- # AC: C/B .53, PV \$109.92 , \$312.00



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