Energy Analysis Saving Energy Through Strawbale Construction

Project Name

Energy Cost \$1.40/Therm - \$0.082/kWh - \$0.0 kW Simulation Dates Jan. 1 - Dec. 31

Simulation Dates

Energy Use (kBtu)

Energy Cost (\$)

Total Electric (kW)

Jan. 1 - Dec. 3

101,386

\$1,786

9,298

Internal/External lights (kwh) 2,420/113
Saved by Daylighting (kWh) -NA

Heating/Cooling/Fan (kWh) 0/2,551/1,6

Hot Water/Other (kWh)

Peak Electric (kW)

Fuel, hw/Heat/Total (kBtu)

Emissions, CO2/SO2/NOx (lbs.)

Reference Case

\$1.40/Therm .082/kWh - \$0.0 kW
 Jan. 1 - Dec. 31
 101,386
 \$1,786
 9,298
 2,420/117
 -NA
 0/2,551/1,655
 0/2,554
 5.3

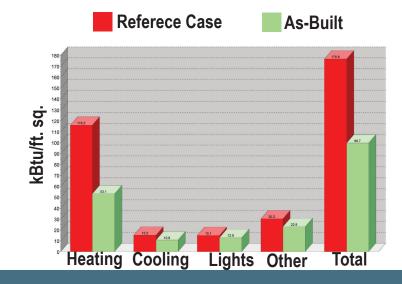
2,986/66,674/69,660

20,723/81/47

As-Built

\$1.40/Therm -\$0.082/kWh - \$0.0 kW Jan. 1 - Dec. 31 57,220 \$1,063 6,958 2,051/117 -NA 0/1,814/422 0/2,554 4.0 2,896/30,490/33,475 13,306/59/33

Strawbale-Annual Energy Use



Awards Competition 2007

Overall, our building seems to perform quite well in energy use.

It is very successful relative to standard

construction methods.

To fully grasp the implications of these charts, we must keep in mind the complexities inherent in real construction, in geometry, siting and function