



# ENERGY & STEEL?

*Woods carbon footprint is 8 times more than a STEEL Framed House!*

**California Steel Framing Alliance (CASFA) Tools of the Trade**  
**\*\* MAKE GREEN BUILDING GREENER! \*\***

## Energy Efficiency 101!

*The future energy use of a wood house **exceeds** steel framed homes by **799%** over the life of the structure!*

### STEEL HOUSE

**Recycle Steel 5,450 Btu/lb**

Single Story House = 16,000 lbs

Life = 600 years

Energy Usage =  $\frac{16,000 \text{ lb} \times 5,450 \text{ Btu/lb}}{600 \text{ years}}$

= 145,333 Btu/yr for its life!

### WOOD HOUSE

**Wood Harvest & Process 2,133 Btu/lb \***

Single Story House = 42,000 lbs

Life = 60 years

Energy Usage =  $\frac{34,286 \text{ lb} \times 2,133 \text{ Btu/lb}}{60 \text{ years}}$

= 1,218,867 Btu/yr for its life!

**Life Cycle difference (Wood/Steel) =  $1,218,867 / 145,333 = 838\%$**   
***Steel the Better Builder!***

\* Source Agenda 2020: A technology Vision and Research Agenda for America's Forest, Wood and Paper Industry  
This is based on a 2000 sqft home, CFS at 24" o.c. & steel trusses, wood framing 16" o.c. & wood trusses.