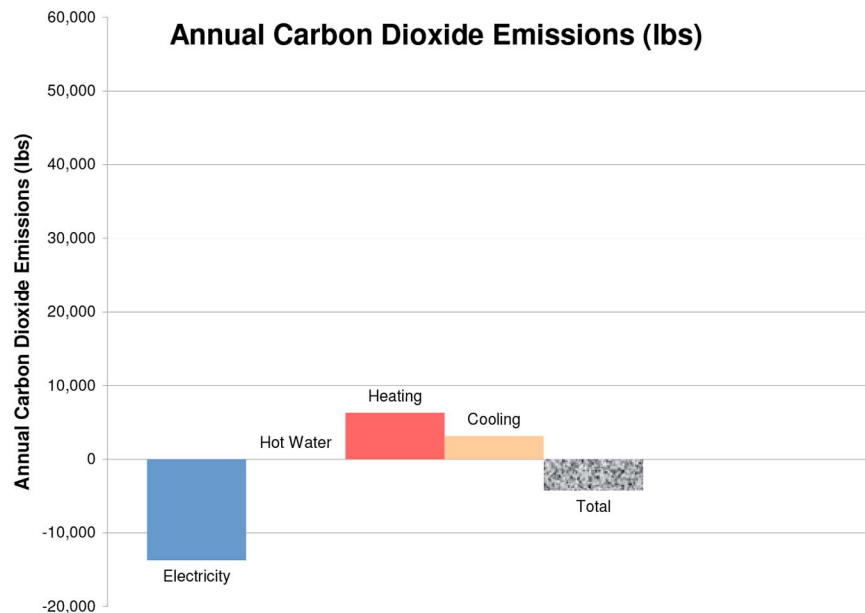


CASE STUDIES



2070 NEHER LANE
BOULDER, COLORADO

4598 sq. ft. (3214 sq. ft. above ground, 1384 sq. ft. basement)



This speculative house is intended to establish the marketing value of energy efficient building. It focuses capital in energy-efficiency measures as well as quality finishes. Structural insulated panel (SIPs) walls minimize thermal bridging, and polyurethane roof insulation completes the tight envelope. Daylighting, fluorescent lighting, and evaporative cooling minimize electricity consumption. Heat is supplied in part by the high-efficiency gas boiler and radiant floor, and in part by the passive solar design – large south windows tuned to admit 60% of the sun’s energy, and shaded in the summer by trellises. The roof is configured to accommodate the solar panels for hot water and photovoltaic energy (8kW) – enough to sell excess electricity back to the grid.

ENERGY SUMMARY

2070 NEHER LANE BOULDER, CO

