

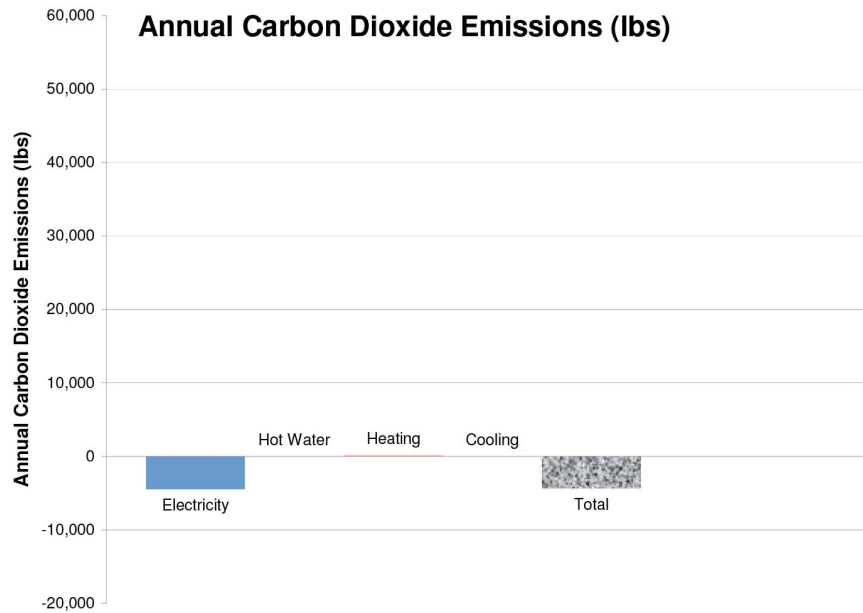
CASE STUDIES



HABITAT FOR HUMANITY, WHEAT RIDGE, COLORADO

1200 sq. ft. above ground

The National Renewable Energy Lab sponsored this house, and modeled it to find a building system that was cost-effective, replicable, and familiar to Habitat for Humanity’s volunteer builders. Fiberglass batts pack the double stud walls, the floor and the raised roof to form a snug envelope. Low-E windows reduce heat loss, and south windows were selected to admit almost 60% of the incident solar energy in winter. Hot water comes from two solar collectors on the roof. An efficient natural gas heater warms the main space, while bedrooms are warmed with electricity – much of which is supplied by the 4 kW of photovoltaics on the roof. In its first year, with the help of its energy-conscious inhabitants, the house distinguished itself as a net energy producer.



ENERGY SUMMARY

HABITAT FOR HUMANITY WHEAT RIDGE, CO

