



ENERGY FEATURES

- Solar thermal system
- 100% wind energy through Xcel
- Daylighting with operable skylights and sun tubes
- Passive solar heating and cooling with south facing windows and engineered overhangs
- Well insulated attic, crawlspace, and walls
- High efficiency windows and doors
- White roof
- 90% efficient furnace
- CFL lighting
- Energy Star rated appliances
- 2kW PV system, grid-tied
- 16 kW battery backup

Year Built 1969

Home Size 1400 Sq.Ft.

Architect/Designer
Homeowners

Builder
Ecofutures Building (see ad page 150, Peter Korba)

Solar Contractor
Industrial Solar Technology (see ad page 20)
Namaste Solar Electric (see ad page 19)

Landscaping
Matrix Gardens,
Allison Peck

Burman Residence Making the World Better Than We Found It

Steve and Hillery Burman

From childhood, we both dreamed of making full use of the energy source from the great Sun above us all. It's disappointing this clean, secure energy source is not more commonly used. It seems like a natural way to think about building, living and creating sustainable communities.

The most extensive worldwide scientific collaborations in history show greenhouse gasses (GHG) emissions from burning fossil fuels to be the major cause of global warming and climate change. Reducing GHGs is a global imperative. The building industry is responsible for 50% of all energy use, between construction/maintenance of buildings, their heating/cooling, and producing building materials. Much of this energy use is circumvented in buildings designed to work with the climate rather than against it.

As non-renewable energy supplies are depleted, conflicts escalate over what remains. (The informed observer may already witness this in current events.) The longer one waits to move to renewable energy sources, the greater the cost.

Hoping to leave the world at least as good as we found it, our goals include complete energy independence and to reducing our total "carbon footprint" to zero.

Moving to an older home was quiet a reminder of how building codes have evolved. Steve analyzed the structure and our energy usage to prioritize improvements, starting with insulation to keep heat in and out as seasons pass. We replaced the original wasteful furnace with a high efficiency one. Skylights brighten the home while reducing the lighting bill. Steve designed & built awnings from ReSource materials to block unwanted summer sun, while letting winter sun in. The solar shed is a nice addition to Xeriscape, extending growing seasons. Future plans include PV Solar electric to power the home and recharge the Prius!

Steve enjoys helping others find simple ways to live Green. Modern technologies and a scientific approach make it easier than ever!

RE-USE / SALVAGE FEATURES

- Materials for skylights, sun shades, and stair handrails purchased from ReSource
- Compost Bin



Steve and Hillery Burman