

Alternative Energy Homes Documentation

- 1 Construction of this passive solar powered home, in Fultonville, NY, began in May 2002. Occupancy began in November 2002. One full cord of firewood, at \$150, is used to assist in heating the home, October through April each year. In the winter months, this home is heated 50% using passive solar energy and 50% using firewood.
- 2 (Center) One Kilowatt wind turbine helps add electricity in the winter (left) three photo voltaic panels make heat that warms the water (right) eight photo voltaic panels generate electricity Power generated by all three devices is stored in 12 batteries that must be topped off with distilled water monthly.
- 3 This top loading, Saber Industries, of Ohio, washing machine, is the only top loading horizontal access machine manufactured in the United States.
- 4 Saber Industries, of Ohio, is the manufacturer of this 110 volt AC, low water use, low water pumping washing machine which pumps 15 gallons of water for each cycle, as compared with 40-45 gallons used for vertical access washing machines. The well for this home is 180ft deep. It has a 24 volt-DC pump which pumps slowly.
- 5 Efficiency does not always spell fashion. Fluorescent light as well as LED lighting (not show here) are used in this home.
- 6 Refrigerator manufactured in Acadia, CA, by Sun Frost. Ten cubic feet in size. Stores enough food for two.
- 7 The windows shown above the bookcases allow outdoor light, entering through windows, in the upper walls of the home, to light the bedroom and utility room, during the daytime.
- 8 Flooring throughout this home is referred to as "radiant". Beneath the flooring are plastic coils filled with glycol, which is heated by outdoor thermal panels.
- 9 The owner of this home advises: "Demand reduction. Get rid of large electrical appliances. Educate yourself. Read PowerHome.com."
- 10 Profound humor, generously shared by this home's owner.
- 11 The owner of this home happily put forth this: "Everyone needs to understand the concepts and how they are manifested in the operation of a solar powered home."

By: Lynn Rossini