

a k i v a @ w i n f i r s t . c o m

40,000 BTU Low Pressure Multi-fuel Boiler Back-up

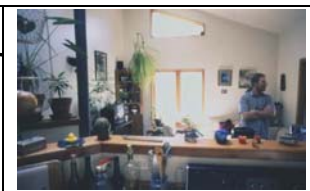


3-4x10 Solar Hydronic Heating Panels



500 gallon 180 degree Hot Water Storage Tank Dom. Hot Water Heat Exchanger

3000 sq ft Solar Bermed House with Garage, Storage, Shop, and Access.Bldgs 9000 sq ft Total  
200 cubic yard Thermal-mass Storage In Floor & Walls



Select H/AC

Gravity-fed Irrigation Water Supply



1800 feet Geo-thermal Cooling Pipe



200 cubic yard Thermal-mass Storage

Irrigation Water



Built by Mark Taylor General Contractor, Sacramento, CA

1 kW Peak Demand Micro-Hydro-Electric Gen.



Utility Grid  
Extra Power Sold Back To Utility Company  
Power Supply When All Systems Were Down Before Completion



48-12 volt 200 Amp/hour Lead/acid Batteries 48 volts DC



6KW-(12KW Peak) 220 volt Inverter



Southern Exposure Tracker 32 --2x5 120 Watt Photo-voltaic Panels



DC Well Pump 40 foot Water Tower



DC Refrigerator



DC Freezer

10 kW Diesel Back-up Generator



8 kW Propane/Nat. Gas back-up Generator

