**Design Requirements**

*Solar panels:* 5 ½ feet x 3 feet

*Geothermal heat pump system:* 1,200-1,800 feet of coils benearth and around the house

*Biomass Anaerobic Digester:* 300 square feet per cow, square footage needed for digester?

*Hydropower turbine:* include pipe to and from stream, shed housing 100 square feet

*Wind turbines:* spaced 5-9 times the diameter of the blades apart, small turbines are 50 feet in diameter (~1,000 watts/day)