Green home notes

temperature:
double glazed windows
styrofoam/other for walls
spray foam under roof
large thermal mass in basement
fireplace for heating
heat exchangers for vents (like AK)
passive solar collection
trombe wall

energy:
12V for LED lights
solar PV for power
lithium batteries for storage
large insulated tank for hot water (active solar thermal)
passive solar thermal as backup
run of river hydro
wind on hill with long run

air:
passive air exchange (ach)
sensible air flow
CO2 monitoring
temp and humidity control: HVAC

efficiency:
conservation = 8x$ for new energy
insulation
passive lighting
passive ventilation