



massiveINSULATION
We used Demilec Sealexion Agribalance® Sprayfoam Insulation applied in the walls and ceiling. Our wall insulation is 50% better than Code and the roof is almost 20% better.

airINFILTRATION
An added benefit to the sprayed insulation is the fact that it seals gaps between the studs, plates and walls, reducing air infiltration. As an example of how well our home is sealed, we perform 12 times better than even the stringent Energy Star standards. We are also providing a heat recovery ventilator that will exchange indoor air with fresh outdoor air and keep a significant amount of the heat so it isn't lost.

advancedFRAMING
The exterior walls were framed with a double 2x4 stud wall. We used separate top and bottom plates to eliminate the "cold bridge." We also spaced the studs at 24" oc and used only a single top plate on the interior 2x4 wall. Headers were individually sized and ordered to minimize material use and minimize waste.

dual flushTOILETS
This Kohler toilet has a dual flush option of 0.8 gallon flush or 1.6 gallon flush. By utilizing the "one for one, two for two" flushing concept, this toilet could save up to 6,000 gallons of water per year. This toilet also meets the EPA WaterSense criteria for high efficiency.

zeroVOCPAINT
All of the paint used inside the SAGE has no volatile organic compounds (VOCs). VOCs contribute to smog and can create ground-level ozone, which is detrimental to human health. Using paint without VOCs helps keep the air inside our home cleaner and safer. The "new paint smell" is not good for you.

solarHOT WATER
We have installed a solar hot water system, with one 4' x 10' solar water panel that will provide the equivalent of just over 2 KW of water heating.

high-performanceHEAT PUMP
The heat pump and all ductwork is located within the insulated envelope of the house, eliminating heat loss. Additionally, we used the smallest, most efficient Trane heat pump we could find - and it was still larger than needed.

fscCABINETS
All of the cabinets in our home are Forest Stewardship Council (FSC) Certified Oak grown in sustainable, local forests. This means the wood was grown by forest managers who employ environmentally and socially responsible practices.

efficientWINDOWS
All of the windows are Weathervane Vantage vinyl framed windows with low e/argon glazing. Our windows perform about 30% better than Code requirements. This places us in the "exceptional" category for window performance in the LEED-H credits.

nighttime naturalCOOLING
Even with all of the mechanical systems, there just is something nice about being able to simply open a window. We have designed our windows so that they can be opened and allow the natural breezes in the cooler summer nights to naturally cool our home.

reclaimedWOOD FLOORING
We have used reclaimed FSC (Forest Stewardship Council) Certified wood flooring throughout most of the house. We then finished it with Pall Oil, a natural product with almost zero VOCs

energystarAPPLIANCES
The dishwasher, refrigerator and clothes washer are all EnergyStar labeled for added efficiency. The clothes washer also uses less water than a conventional washer.

centralVACUUM
Indoor air quality is one of the mainstays of LEED certification. Normal sweeping or vacuuming can actually stir up more dust and dirt than it removes, so we have installed a central vacuum system with the collection tank located in the garage and venting to the outside. Vacuuming with a central vacuum truly helps clean the house.



photovoltaicELECTRICITY
We have installed a solar electric (pv or photovoltaic) system to provide clean, renewable energy from the sun. We have ten 30" x 63" solar pv panels that supply about 40% of our electricity needs. Any electricity generated beyond the needs of the house are sold back to EWEB through the grid, helping them build fewer power generation facilities in the future.

landscapeDESIGN
Our landscape design is drought-tolerant. All plantings are selected to survive (once established) without additional irrigation. We have no lawn and no permanent irrigation system.

plug-inELECTRIC
We've added an electric outlet to recharge your electric car. When plug-in cars actually move into production, our home will be ready. And, if it's a sunny day, your driving will be free!

twocarGARAGE :-)
Although it is designed to be space saving, this garage has room enough for two cars if you're "smart" and "think" about it. And with an electric car charging outlet, you can house your zero-emission vehicle in here quite nicely.