

Anne Chambers and Ed McAlpine's Green Home Features

Tesla Solar Roof – We replaced our previous tile roof with lightweight but durable Tesla Solar Roof tiles, which are warranted for 25 years. The tiles are integrated between solar collection and dummy-glazed tiles with no solar cells. The solar tiles are predominately placed on the southern exposure side with a few on the north-facing roof.

Working in conjunction with the Tesla Powerwalls and Solar Inverter, the house is powered by solar during the day (when it is sunny), and by the batteries at night; it also provides back-up protection during power outages. Any excess energy collected is sent back to the grid, and generates a cash payment annually.

We are very happy with the roof – the looks, the engineering, and of course with the energy independence. We've had a couple of power outages since the installation and didn't notice one bit.

The roof tiles are visible from outside the house.

Tesla Solar Inverter – This is an electrical system that converts the dc solar to usable household ac. This sits in the garage – we will post a picture, and are happy to answer questions about it.

Tesla Powerwalls – Two lithium ion polymer batteries with storage of 13.5kWh each. This sits in the garage – we will post a picture, and are happy to answer questions about the batteries.

Electrical panel upgrade – Outside panel to 200 Amps, Tesla panel to 100 Amps.

Electric Range with Induction cooktop – We love our 30" Wolf Professional induction range, which was installed in 2019. Compared to a gas stove you have much more control over the heat, and can step the temperature down evenly if the burner is too hot. Also, the burner heats evenly across the area where the pot sits, so there is no burning in the middle of a pot. Finally, it's super easy to clean.

We have a set of All Clad pots and pans, and also use Lodge cast iron frying pans and Le Crueset cast iron Dutch ovens. When my mother-in-law got an induction stove she ordered a non-stick set of pots and pans from Amazon for about \$100 or so [https://smile.amazon.com/T-fal-C515SC-Professional-Dishwasher-](https://smile.amazon.com/T-fal-C515SC-Professional-Dishwasher-Induction/dp/B07JHYBN93/ref=sr_1_7?dchild=1&keywords=induction%2Bcookware%2Bsets%2Bnonstic&qid=1615495317&s=home-garden&sr=1-7&th=1)

[Induction/dp/B07JHYBN93/ref=sr_1_7?dchild=1&keywords=induction%2Bcookware%2Bsets%2Bnonstic&qid=1615495317&s=home-garden&sr=1-7&th=1](https://smile.amazon.com/T-fal-C515SC-Professional-Dishwasher-Induction/dp/B07JHYBN93/ref=sr_1_7?dchild=1&keywords=induction%2Bcookware%2Bsets%2Bnonstic&qid=1615495317&s=home-garden&sr=1-7&th=1) and they have worked out great, too.

Electric Whole House Fan – Our house has no air conditioning; cooling is accomplished through a combination of insulation, an attic fan, a ceiling fan and portable fans plus a Whole House Fan which draws cool outside air into the house in the evening and overnight. The Whole House Fan is in the attic and therefore not visible, but we are happy to answer questions about it.

LED lighting – Throughout the house.

Heat pump for heating and cooling air – Not yet, but planned – we have plenty of extra solar capacity to power it.