



## Highlights:

- 2,434 sq. ft.
- 100% electric
- Designed to be net zero energy use, including two electric vehicles
- Designed with passive heating and cooling attributes
- Geothermal Loop Field: 14 vertical wells at about 100 feet deep each.
- 61 solar panels generating 22,000 kWh of electricity annually
- Seeking certifications for GreenStar, LEED for Homes, Minnesota Green Path, Living Building Challenge - Net Zero Energy Building

## Prepared by:



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## Powering Our Future with Clean Electricity

Mark and Kate Hanson's home in Roseville, Minnesota, has many special features – but one of the most exciting is their use of clean electricity for heating, cooling, keeping the lights on, and powering the family cars.

Thanks to strong policy leadership and abundant renewable resources in our state, Minnesota's electricity mix is becoming cleaner and cleaner, with much more wind and solar. Fossil fuels like oil and gas, on the other hand, are getting dirtier and are becoming riskier both financially and environmentally.

For nearly 25 years, Fresh Energy has been working to transition to a clean energy system in the state. Increasingly we see that an "all-electric economy" – like the one modeled by Mark and Kate Hanson – may just be the answer. The keys are to:

- Power more of our economy with electricity while simultaneously ensuring that our electricity comes from the wind, the sun, and other clean, local energy sources.
- Build new homes and other buildings that are so energy efficient that it takes only small amounts of electricity to heat and cool them.
- Reconsider our electric system and embrace technology that can help spread consumer demand out over time – reducing costs for everyone.

Fresh Energy is working on policy solutions that will advance clean energy and help more buildings in our communities become like the Hanson house.

“A Native American proverb we love states: ‘We do not inherit the earth from our ancestors, we borrow it from our children.’ We support Fresh Energy because they pass policies that ensure children born today and in the future have better opportunities than we had, including cleaner air and water and the freedom to not worry about pollution. As a result of Fresh Energy’s leadership in supporting strong building code policies, our net zero house has greatly improved our standard of living and comfort, while costing the same as our previous house.”

Mark and Kate Hanson



## **Fresh Energy: Practical policy. Brighter future.**

Fresh Energy is an independent nonprofit organization working to speed the transition to a clean energy economy in Minnesota. Our team of scientists, attorneys, and economists is shaping and driving policies that benefit our communities and our future. We work to:

- Promote energy efficiency in our utility system and in Minnesota homes, schools, and commercial buildings.
- Increase wind, solar, and innovative clean electricity solutions that create jobs and improve Minnesota communities.
- Transition away from coal and other fossil fuels.
- Create more clean and affordable transportation choices, including electric cars and buses.

Fresh Energy is also home to a network of energy news publications with journalists providing accurate and fact-based coverage of clean energy issues in the Midwest and other regions.

### **Join US:**

Visit [www.Fresh-Energy.org](http://www.Fresh-Energy.org) to learn more about Fresh Energy and the clean energy policies we are leading on, sign up for our free e-newsletter, or make a gift today.



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### **Meet Our Buildings Expert:**



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Ben is a member of Fresh Energy’s energy performance team, working to support and pass policies that improve energy efficiency related to buildings and the built environment.