## Spotlight



## All-Electric in Trenton





Whether it's entertaining guests, swimming in their heated pool with their boys, or doing laundry, the Segers prioritize efficiency, clean energy, and reliability for their daily home needs. Being no stranger to renewable technology, they knew they wanted to include a geothermal heating, cooling, and hot water system in their all-electric home. Not initially realizing geothermal's full potential and extensive benefits, the Segers were blown away by their low monthly utility costs.

Wanting to save even more, they installed a solar PV system to offset their home's monthly energy consumption. By taking the proper steps of creating a tightly sealed home, making other energy-efficient upgrades, tracking their energy consumption, and even doing laundry and dishes during their solar array's peak efficiency times, they were able to maximize their savings on monthly utility bills.

This all-electric home features a 10KW DC solar PV ground mount and a 4-ton two-stage vertical packaged Compass XT geothermal unit with two water heaters stored in their fully finished basement.

They worked closely with Enertech to ensure that they maximized their home efficiency with properly design systems and almost full solar coverage of their energy consumption. Additionally, the Seger's installed LED lightbulbs, passive French doors, and window tinting on their front-facing windows to help energy savings. Initially, when they built their home, they made sure they included 2 x 6 exterior walls for their home and garage for a higher R-value to help keep the heat in the home, black tar paint for nail holes, weather proofing electrical boxes with extra insulation and foam, low ease windows, and insulated garage door panels.

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## **PROJECT DETAILS**

**Building Size:** 2198 sq. ft.

**Loop Type:** Vertical

**Geothermal Equipment:** 4-ton GeoComfort Compass XT | Two-Stage Vertical Packaged

**Solar Equipment:** 38 Modules (Q Cells 390) – Ground Mount

Inverter: Fronius Primo

Contractor / Installer: Joe's Electric

Kyle Seger

Jarrod Leckrone

**Savings:** Monthly Utility Bill: \$0 per month\*

Lifetime Energy Production: 36.00 MWh

Over 95% solar coverage

\*Monthly bill does not include utility charges/fees



CONSTRUCTION TYPE

New Construction



SYSTEM TYPE
Radiant & Forced Air



LOOP TYPE
Vertical



POWER PRODUCTION







