

Solar in Southern Illinois

Trenton, IL



Continuing their journey for home efficiency, the Seger family chose to install a 10kw solar PV ground mount to help offset their geothermal heating and cooling system and daily home energy needs.

By combining geothermal + solar with their other home efficiencies, they were able to create additional cost savings and maximize their energy-efficiency for their all-electric home.

Since the Segers previously installed a geothermal heat pump, their energy demand was drastically lowered due to geothermal's 500% efficiency rating. This allowed for a 10kw ground mount array to be installed, covering the majority of their energy needs. The ground mount features 38 Q Cell 390 modules, a Fronius Primo inverter, and DPW raiiling. To create further energy savings, the Segers use LED lightbulbs, have their front-facing windows tinted, and weather proofed their whole home with extra insulation, black tar on nail holes, low ease windows, and insulated garage doors.

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PROJECT DETAILS

Building Size: 2198 sq. ft.

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 include utility charges/fees



CONSTRUCTION TYPE
Retrofit



SOLAR TYPE
Ground mount PV solar array



SOLAR PANELS
38 Ground Mount



POWER PRODUCTION
10 kW

