Southern Illinois Lake House

Greenville, IL

After installing geothermal in their home, this family decided to pair it with a PV solar array for ultimate efficiency and further cost savings. This family lives on Governor Bond Lake and spends much of their time entertaining their friends, enjoying lake activities, and hosting family dinners. They value theirup to zerodollar utility bill and the freedom it gives them to use that budget elsewhere. With their growing family, they have broken ground on a new home that also includes geothermal and a PV solar array. They're excited about the added home value from solar and the maximized efficiency.

Installation Details:

On this family's current home, they had limited roof space. They opted for an oversized ground mount system located next to their shed. This ground mount is enough coverage for their current house and shed. With no previous utility bills to base their usage off of for their new home, they decided to install a 10kW system and left room to add more modules on in the future. They chose black on black modules that blended into their roof. Due to their unique roof layout, the panels are spread across the east, south, and west facing parts of the roof for optimal sunlight exposure.

PROJECT DETAILS

Roof Size:	2,400 sq. ft.
Solar Equipment:	**Mission Solar 340W Modules**
	Silfab 290W, 60 Cell Modules
	Fronius Primo 10.0 String Inverter
	AP Systems YC500 Micro Inverter
Contractor / Electrician:	Zobrist Electric, Highland, IL 62249, (618) 973-2282
Estimated Annual Costs:	Estimated Annual Utility Costs
	Current House with Geothermal: $89
	Current House with Geothermal and Solar: Net Zero*
	New House with Solar: Net Zero*

*Other than utility connection fee. This couple is now getting credit for their unused energy through their net metering policy.

CONSTRUCTION TYPE
New Construction

SOLAR PANELS
Ground Mount - 36 panels, Roof Mount - 40 Panels

INVERTERS
String Inverter, 20 Micro Inverters

POWER PRODUCTION
Ground Mount - 10kW, Roof Mount - 10kW