

Midwest Easements Facility

Vandalia, IL



Midwest Easement Services is no stranger to the benefits of energy-efficient solutions, like geothermal heat pumps for lowering energy usage and creating a foundation for a net-zero work environment. As part of their previous geothermal installation, this family-owned business added solar modules to their facility to offset their energy usage. Taking the extra steps to make sure the facility was air-tight, well insulated, and heated and cooled with geothermal; a smaller solar array was needed to cover 100 percent of their commercial energy needs.

INSTALLATION DETAILS

This commercial project is considered a net-zero facility made possible by combining geothermal heat pumps and solar PV to have a comfortable workspace and is net-zero. This high-efficiency facility features Fronius Primo string inverters. Preformed Line Products - Power Peak AL Ground racking with 144-cell QCell mono modules. The roof mount generates 36,032 kWh annual production.

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PROJECT DETAILS

Building Size:	7900 sq. ft. Roof Size
Solar Equipment:	PLP Power Peak Racking QCell 390w Modules Fronius Primo Inverter
Utility Company:	Ameren Illinois
Contractor:	Patriot Industries
Savings:	Energy Offset: 106% Breakdown of Incentives: 30% federal tax credit, SREC incentive expected: \$35,998.71

 CONSTRUCTION TYPE
Existing Building

 SOLAR PANELS
80 Ground Mount

 INVERTERS
20 Micro Inverters

 POWER PRODUCTION
25 kW AC - Power Production

