



67.2kWdc Project: Research Farms

This hog producer in central Iowa, is always looking to reduce costs long-term. When the owner heard the financial incentives to 'go solar' in this part of the country are some of the most favorable in the country, he wanted to hear more.

Upon receiving a customized solar feasibility study and financial analysis the case was clearly made; it was time to go solar. SunPeak was ready to start construction on the 260-panel ground mounted system in just a couple weeks.

At 67.3kWdc total capacity, the solar system is expected to power 74% of the farm's total electricity consumption for the next 30 years. Specifically, the system is projected to generate 98,700 kWh/year. At the current blended energy rate being paid to the local utility, this equates to an annual value of electricity of \$9,630/year. This figure is anticipated to grow over the lifespan of the system as the utility rates rise, leading to a total system lifespan projected savings of \$386,000.



Project Highlights	
Customer	Research Farms
Buildings	Hog Producer
Location	Geneva, Iowa
System Type	Ground photovoltaic
Completion Date	December, 2015
Installation Duration	~ 4 days
Annual Energy Production	101,172 kWh/year (75% of annual energy usage!)
AC Capacity	60 kWac
DC Capacity / DC:AC Ratio	67.32 kWdc / 1.122 DC:AC
Module Number & Type	264 modules, each 255 W polycrystalline
Mounting Scheme	Ground drill and cement
Inverter Type	Six SMA Sunnyboy 10000TL-US Single Phase Inverters

The farm's investment in solar energy also demonstrates their leadership in reducing environmental impact. Over the course of the system's life, the energy produced will offset significant amounts of energy that would have otherwise been generated by conventional utilities. In addition to the owner's financial savings, we all benefit from this solar system by saving the earth:

- 657 tons of landfill waste
- 4,365,891 miles of driving
- 206,332 gallons of gasoline
- 985 tons of coal
- 47,018 trees planted
- 2,659,229 kWh of electrical energy
- 2,021 tons of Carbon Dioxide

SunPeak leads clients through the world of generating power using the sun's free natural energy. Our goal is to educate commercial entities about the exciting new alternatives available to economically power any type of business. We are a high integrity company, and offer the strongest value in the industry. Please contact one of our sales consultants today to begin the discussion.



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