



HOEVE FARMS

**FAMILY-OWNED HOG & GRAIN FARM
HOLLAND, MI | CASE STUDY**

Hoeve Farms has successfully implemented both a 75.60kW and 41.04kW elevated ground-mounted solar array. This initiative has resulted in \$19,295 of annual cost savings and was awarded the USDA Reap Grant.

AT A GLANCE

CHALLENGES

- Capital Investment
- Available ground space on a growing farm
- Grid Connection & Utility
- Possible Extreme Weather

BENEFITS

- USDA Reap Grant
- Tax Incentives
- Long-Term Sustainability
- Hedge operating costs against rising electric rates
- Meets Unique Energy Demands
- Agrivoltaics

“Working with Jake from Harvest Solar was a good experience. He was there from the first paperwork to turning the system on. He always answered my questions and phone calls. The best part of the whole deal is shade for the cattle in the summer and smaller to no electric bill each month!”

JEFF HOEVE

Owner of Hoeve Farms



**Scan the QR Code
to learn more
about Hoeve
Farm’s Solar
Success Story!**

OBJECTIVES

Hoeve Farms, a family-owned and operated hog and grain farm, faces substantial year-round energy demands for heating, ventilation, lighting, water pumps, and grain drying to feed their on-site livestock. These energy-intensive operations made solar power an ideal solution to address the farm's high energy consumption. The elevated solar installations not only provides a reliable energy source but also doubles as a shading structure, offering additional benefits for the animals on the farm.

SOLUTIONS

Jake Schuster evaluated Hoeve Farms' energy needs and recommended two elevated ground-mount solar systems—75.60kW and 41.04kW—to support the hog and grain operations. These systems were tailored to meet the farm's high energy demands while providing dual benefits: reliable energy generation and shade for livestock. By transitioning to solar power, Hoeve Farms secures a reliable and sustainable energy source while offering financial stability and energy independence for generations to come.

FAST FORWARD

Estimated kWh Generation

This solar array has a nameplate capacity of 75.60kWdc and 41.04kWdc and is estimated to generate approximately 149,513kWh per year.

Estimated Savings

The projected savings on utility bills over 30 years from both solar arrays amount to \$1,192,576.

Estimated CO2 Offset

The solar array's estimated CO2 offset is equal to the emissions from burning 3,215,823 pounds of coal.

Estimated Tax Incentives, Rebates, etc.

Hoeve Farms has factored in a 30% Federal Investment Tax Credit and awarded the USDA Reap Grant for these projects to reduce the ROI to 2.35 years and 2.75 years.