



CARPENTER FARMS

FAMILY OWNED FARM
ADRIAN, MI | CASE STUDY

Carpenter Farms has successfully implemented a 24.48kW roof-mounted solar array. This initiative has resulted in \$4,845 of annual cost savings.

AT A GLANCE

CHALLENGES

- Capital Investment
- New utility policies
- Regulatory & Zoning Issues
- Solar Array Placement

BENEFITS

- Harvesting Renewable Energy
- Offsets Electric Bill
- Agricultural Sustainability
- Hedge operating costs against rising electric rates
- Tax Incentives

“Working with Ken at Harvest Solar was a great opportunity, and you heard me say opportunity because it was an opportunity to really be able to implement the solar system that we needed ‘cause we really did need it because we needed to cut back on our bills, we needed to be renewable.”

MATT CARPENTER

Owner of Carpenter Farms



**Scan the QR Code
to learn more
about Carpenter
Farm's Solar
Success Story!**

OBJECTIVES

Carpenter Farms, a proud 5th generation family farm, aimed to reduce energy expenses and make their operations more sustainable. By harnessing solar energy alongside traditional crop harvests, they have embraced the idea of becoming ‘sun farmers.’ Their investment in solar not only offsets electricity costs but also ensures a brighter, more renewable future for their agricultural enterprise.

SOLUTIONS

To help offset operational costs and meet their sustainability goals, Ken Zebarah conducted a detailed solar analysis to find the best fit for the farm. They selected a 24.48kW roof-mounted system designed with flexibility for future expansion on their south-facing roof. This visible commitment to clean energy is evident to visiting families each fall and to passersby on the highway, showcasing the farm's dedication to renewable practices. Now, as ‘sun farmers,’ they even sell sun-powered donuts to the community, bringing solar energy full circle into their growth story.

FAST FORWARD

Estimated kWh Generation

This solar array has a nameplate capacity of 24.48kWdc and is estimated to generate approximately 31,257kWh per year.

Estimated Savings

The projected savings on utility bills over 30 years from this solar array amount to \$287,055.

Estimated CO2 Offset

The solar array's estimated CO2 offset is equal to the emissions from 2472 gallons of gas consumed.

Estimated Tax Incentives, Rebates, etc.

Carpenter Farms has factored in a 30% Federal Investment Tax Credit for this project to reduce the ROI to 5.3 years.