



PASCH DAIRY INC.

DAIRY FARM
WEIDMAN, MI | CASE STUDY

Pasch Dairy Inc. has successfully implemented a 176kW ground-mounted solar array. This initiative has resulted in \$29,884 of annual cost savings.

AT A GLANCE

CHALLENGES

- Upfront Investment
- Electrical Infrastructure & Interconnection
- Weather & Environmental Conditions

BENEFITS

- Peak Energy Alignment
- Available Physical Space
- Generational Investment
- Protects Against Rising Utility Costs
- Supports Daily Operations

"We're real happy with our decision going forward, putting solar panels in. Continuous asset to generate power for our operations for now and years to come."

ABE PASCH

Owner of Pasch Dairy Inc.



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more about
Pasch Dairy
Solar Success
Story!

OBJECTIVES

Dairy farming runs on electricity around the clock. Ventilation fans, water pumps, feeding systems, and manure handling equipment draw power throughout the day, while vacuum pumps, milking equipment, and milk cooling can't afford any interruption without risking product quality. Summer adds another layer of demand, as fans and cooling systems work overtime to keep cows comfortable and production steady. That kind of steady, predictable load is exactly what makes solar work well on a dairy operation. Pasch Dairy had the open land to support a ground-mounted system, giving them a way to cover a meaningful share of their electricity use and take more control over what they pay to operate the farm year after year.

SOLUTIONS

Pasch Dairy has been in the same family for four generations, and decisions here tend to get made with the next several in mind. Solar fit that pattern: a stable, on-site power source that supports daily operations and helps keep energy costs in check well into the future. Producing a substantial share of its own electricity insulates the farm from utility rate increases and makes budgeting more predictable, freeing up money that would otherwise go toward rising operating costs to be put back into the business instead. The system runs quietly in the background of farm life. It doesn't change how the herd is cared for or how milk gets produced, it just supports it. Like the farm itself, it's built for the long haul, adding value and efficiency that should carry through to the next generation of Pasch Dairy.

FAST FORWARD

Estimated kWh Generation

This solar array has a nameplate capacity of 176kWdc and is estimated to generate approximately 241,150kWh per year.

Estimated Savings

The projected savings on utility bills over 30 years from this solar array amount to over \$1,800,000.

Estimated CO2 Offset

The solar array's estimated CO2 offset is equal to the emissions from burning 11,230 barrels of oil annually.

Estimated Financial Outlook

Pasch Dairy Inc. has factored in a 30% Federal Investment Tax Credit for this project to reduce the estimated ROI to approximately 3 years.