



# UMLOR ORCHARDS

APPLE ORCHARD  
CONKLIN, MI | CASE STUDY

Umlor Orchards has successfully implemented 191.16kW roof and ground-mounted solar arrays. This initiative has resulted in \$34,823 of annual cost savings.

## AT A GLANCE

### CHALLENGES

- Initial Investment
- Seasonal Energy Variability
- Land & Roof Space Considerations

### BENEFITS

- Energy Independence
- Hedge operating costs against rising electric rates
- Tax Incentives
- Sustainable Branding
- Energy Cost Savings

"The staff was always there to assist in precondition, installation, and follow up. They were happy to answer any questions and explain the process. That's one of the qualities of Harvest Solar - Let the Sun Shine"

### ROGER UMLOR

Owner of Umlor Orchards



**Scan the QR Code to learn more about Umlor Orchard's Solar Success Story!**

## OBJECTIVES

Umlor Orchards, a third-generation apple farm in Michigan, has built its legacy on quality and innovation. With 12 controlled atmosphere rooms for apple packing and storage, their energy demands are high. Given the unpredictability of nature and the need for efficiency, the Umlor family remains committed to adopting new technology to sustain their farm's success. Solar energy proved to be the perfect solution.

## SOLUTIONS

Always looking for ways to evolve in their industry, the Umlor family partnered with Harvest Solar to assess the potential of solar energy for their farm. Allen Bonthuis analyzed their seasonal energy demands to tailor a system that maximizes savings. With the advantage of a south-facing roof and open land, they installed a 191.16kW ground and roof mount, securing long-term energy stability while reinforcing their commitment to sustainability. Their continued success is driven by their dedication to staying informed about new technologies, industry challenges, and advancements in farming, ensuring they remain adaptable in an ever-changing agricultural landscape.

## FAST FORWARD

### Estimated kWh Generation

This solar array has a nameplate capacity of 191.16kWdc and is estimated to generate approximately 247,867kWh per year.

### Estimated Savings

The projected savings on utility bills over 30 years from this solar array amount to \$2,150,249.

### Estimated CO2 Offset

The solar array's estimated CO2 offset is equal to the emissions from burning 5,331,283 pounds of coal.

### Estimated Tax Incentives, Rebates, etc.

Umlor Orchards has factored in a 30% Federal Investment Tax Credit for this project to reduce the estimated ROI to 2.7 years.